DEPARTMENT OF CITY PLANNING

APPEAL RECOMMENDATION REPORT

West Los Angeles Area Planning Commission

Date: August 18, 2021
Time: after 4:30 p.m.*
Place: In conformity with the Governor's Executive Order N-29-20 (March 17, 2020) and due to concerns over COVID-19, the West LA APC meeting will be conducted entirely telephonically by Zoom [https://zoom.us/].

The meeting's telephone number and access code access number will be provided no later than 72 hours before the meeting on the meeting agenda published at https://planning.lacity.org/about/commissions-boards-hearings and/or by contacting apcwestla@lacity.org

Public Hearing: Required
Appeal Status: Not further appealable
Expiration Date: September 1, 2021, Subject to tolling
Multiple Approval: No

Case No.: ZA-1989-17683-PA2-1A
CEQA No.: ENV-2020-1328-CE
Incidental Cases: None
Related Cases: None
Council No.: 5 – Koretz
Plan Area: West Los Angeles
Plan Overlay: None
Certified NC: South Robertson
GPLU: Neighborhood Commercial
Zone: C4-1VL-O

Applicant: Phil Brown, Pacific Coast Energy Company

Appellant A: Amy Minteer, Chatten-Brown, Carstens & Minteer LLP representing Neighbors for a Safe Environment

Appellant B: Paul Koretz, Council District 5
Representative: Daniel Skolnick, Council District 5

PROJECT LOCATION: 9101 West Pico Boulevard

PROJECT: A Plan Approval to review the effectiveness and applicant's compliance with conditions imposed in Case Nos. BZA-2000-1697 and ZA-17683(PAD) for the existing 0.706 acre West Pico Oil Drill Site. There is no request for modification of any existing condition of approval and no proposed expansion of the use. The review is required by Paragraph 4.b of the June 2001 Settlement Agreement in the case of *Neighbors For A Safe Environment v. City of Los Angeles*, Los Angeles Superior Court Case No. BC240760, and will be conducted pursuant to Section 12.24-M of the Los Angeles Municipal Code and Condition No. 78 in Case Nos. BZA 2000-1697 and ZA 17683(PAD). The Zoning Administrator may impose corrective conditions if warranted.

APPEAL REQUESTS: Pursuant to Los Angeles Municipal Code ("LAMC") Sections 12.24 M, appeals of the entire determination by the Zoning Administrator in a Plan Approval review of conditions for the project.

Appeals of a determination by the Zoning Administrator that the Project is exempt from the California Environmental Quality Act (CEQA) pursuant to State CEQA Guidelines, Article 19, Section 15301 (Class 1) and Section 15321 (Class 21), and there is no substantial evidence demonstrating that an exception to a categorical exemption pursuant to CEQA Guidelines, Section 15300.2 applies.

RECOMMENDED ACTIONS:

1. **Deny** both appeals of ZA-1989-17683-PA2-1A;
2. **Determine** that, based on the whole of the administrative record as supported by the justification prepared and found in the environmental case file, the Project is exempt from the California Environmental Quality Act ("CEQA") pursuant to State CEQA Guidelines, Article 19, Section 15301

(Class 1) and Section 15321 (Class 21), and there is no substantial evidence demonstrating that any exceptions contained in Section 15300.2 of the State CEQA Guidelines, regarding location, cumulative impacts, significant effects or unusual circumstances, scenic highways, or hazardous waste sites, or historical resources applies.

3. **Sustain** the Zoning Administrator's Plan Approval Determination that the Conditions of Approval of Determination BZA No. 2000-1697 have been and are being substantially complied with, though necessary inspections of the facility by government agencies will continue to ensure continued compliance.
4. **Adopt** the Zoning Administrator's Determination.

VINCENT P. BERTONI, AICP
Director of Planning

Theodore L. Irving, AICP
Associate Zoning Administrator

ADVICE TO PUBLIC: *The exact time this report will be considered during the meeting is uncertain since there may be several other items on the agenda. Written communications may be mailed to the *Commission Secretariat, Room 273, City Hall, 200 North Spring Street, Los Angeles, CA 90012* (Phone No. 213-978-1300). While all written communications are given to the Commission for consideration, the initial packets are sent to the week prior to the Commission's meeting date. If you challenge these agenda items in court, you may be limited to raising only those issues you or someone else raised at the public hearing agendized herein, or in written correspondence on these matters delivered to this agency at or prior to the public hearing. As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability, and upon request, will provide reasonable accommodation to ensure equal access to these programs, services and activities. Sign language interpreters, assistive listening devices, or other auxiliary aids and/or other services may be provided upon request. To ensure availability of services, please make your request not later than three working days (72 hours) prior to the meeting by calling the Commission Secretariat at (213) 978-1300.

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PROJECT ANALYSIS

APPELLATE DECISION BODY

Pursuant to Section 12.24 M of the Los Angeles Municipal Code ("LAMC"), appeals of Plan Approval cases are heard by the Area Planning Commission.

PROJECT SUMMARY

On June 2, 2021, the Zoning Administrator issued a Plan Approval review of conditions for the review of the effectiveness and applicant's compliance with conditions imposed in Case Nos. BZA-2000-1697 and ZA-17683(PAD) for the existing 0.706 acre West Pico Oil Drill Site. ZA-17683(PAD) was a request for modification of conditions and methods of operation for an existing oil/gas extraction site, with an existing approved maximum of 69 wells, and approval of plans therefore permitting a 129-foot in height electronically powered derrick, Lots 883-883 of Tract 6380 on property located in the C4-1VL-O Zone.

There was no request for modification of any existing condition of approval and no proposed expansion of the use.

The review was required by Paragraph 4.b of the June 2001 Settlement Agreement in the case of *Neighbors For A Safe Environment v. City of Los Angeles*, Los Angeles Superior Court Case No. BC240760, and was conducted pursuant to Section 12.24 M of the Los Angeles Municipal Code and Condition No. 78 in Case Nos. BZA 2000-1697 and ZA-17683(PAD). The Zoning Administrator may impose corrective conditions if warranted.

Two timely appeals followed. On June 16, 2021, Amy Minteer of Chatten-Brown, Carstens & Minteer LLP on behalf of Neighbors for a Safe Environment filed one appeal. On June 17, 2020, a second appeal was filed by Daniel Skolnick of Council District 5 on behalf of Councilmember Paul Koretz.

BACKGROUND

Subject Property

The subject property is the oil and gas extraction portion of a larger controlled drill site, known as the West Pico Oil Drill Site, which was first permitted in 1965. The oil and gas extraction (drill) site is a level, rectangular-shaped, parcel of land consisting of approximately 0.706 acres, having a frontage of approximately 192 feet on the north side of Pico Boulevard and a uniform depth of 185 feet, divided by a through alley between Doheny Drive and Oakhurst Drive. (See site photos in Exhibit D)

The subject property is presently developed with an oil drilling operation with 58 wells (previously there were 59 and the operator advised there is no plan to drill the additional 10 permitted wells [as permitted by Case ZA-17683].) The drill site is enclosed on all sides with 25-foot-high walls, except for the two parking lot areas. Trees and plantings line the exterior of the walls. The drill site consists of a support building, a moveable catwalk building surrounding and attached to the derrick (drilling tower), a drilling mud processing building, two well cellars that contain the wellheads, and incidental equipment and ancillary structures. The drilling tower is mobile and can be slowly moved along rails in order to access all wellheads. The permanent, mobile, electrically powered derrick is approximately 128 feet tall and enclosed within an architectural structure. The

ground surface of the drill site is covered in concrete or asphalt at or near grade. Most permanent equipment is below grade in well cellars or located inside enclosed structures.

Zoning and Land Use Designation

The site is located within the West Los Angeles Community Plan, which designates the site for Neighborhood Commercial land uses with C4 as the corresponding zone. The subject site is zoned C4-1VL-O. The “O” suffix in the [Q]R3-1-O zone is a supplemental use district which indicates an Oil Drilling District where the drilling of oil wells or the production from the wells of oil, gases or other hydrocarbon substances may be permitted. The site is within Urbanized Oil Drilling District No. U-131 established by Ordinance No. 130,340.

Surrounding Properties

Adjacent properties to the north of the subject property are zoned R3-1VL-O and are developed with two-story apartment buildings. Properties to the south across Pico Boulevard are zoned C4-1VL-O and are developed with low-rise commercial buildings occupied by a variety of commercial and religious uses. Properties to the east across Doheny Drive are zoned C4-1VL-O are a gas station and other commercial uses.

The property to the west of the drill site across Oakhurst Drive is zoned C4-1VL-O and improved with the production facility portion of the West Pico Drill Site operated by the applicant. This production site was authorized July 28, 1967, pursuant to Case No. ZA-18893, for Lots 1037, 1038 and 1039, of Tract No. 6380 generally located at the northeasterly corner of Pico Boulevard and Cardiff Avenue.

History of this Plan Approval

Case No. ZA17683(PAD): Following the certification of an Environmental Impact Report on April 5, 2000 (EIR 98-0149 PA [SCH #98091043]), the Zoning Administrator approved a modification of existing conditions and methods of operation for the existing oil/gas extraction site, with a previously approved maximum of 69 wells, and an approval of plans permitting a 129-foot in height electrically powered derrick. In conjunction with permitting the new derrick, other modifications of conditions included an increase in fencing around the entire drilling site to a height of approximately 25 feet from the existing 12-foot wall; the installation of a 24-hour noise and video monitoring system; and the installation of an early alert detection system to alert the Los Angeles City Fire Department (LAFD) of hydrogen sulfide and methane.

The subject Plan Approval, which applies to the oil and gas extraction portion of the drill site, began with a November 19, 2019, letter from the Chief Zoning Administrator notifying the operator of the West Pico Oil Drill Site that it is required to file a Plan Approval for a review of compliance with the conditions imposed under Case No. ZA-17683(PAD). The letter from the Chief Zoning Administrator was in response to concerns raised by members of the public relative to the operation of the drill site and the enforcement of the 2001 Settlement Agreement that resolved the *Neighbors For a Safe Environment v City of Los Angeles* lawsuit. The Settlement Agreement requires the operator to submit an application for a plan approval every five years in order to conduct a compliance review to verify that the operator is complying with the conditions of approval outlined in the April 2000 determination. The Settlement Agreement states that the Zoning Administrator will conduct a review of conditions as prescribed in Condition No. 78 in Case Nos. BZA-2000-1697 and ZA 17683(PAD) and will issue a report of its review and schedule a public hearing, “if warranted.” The operator had not submitted an application for a review of conditions in several years.

On February 28, 2020, the operator submitted an application to the Department of City Planning for a Plan Approval (Case No. ZA-1989-17683-PA2) to review compliance with the conditions of approval imposed under Case Nos. BZA-2000-1697 and ZA17683(PAD). The operator did not request any modification of any existing condition of approval. While the operator also maintains a production facility site along Pico Boulevard between Oakhurst Drive and Cardiff Avenue, the production facility site is not the subject of the Plan Approval application by the terms of the requirements of BZA-2000-1697 Condition 78 and the Settlement Agreement.

On June 22, 2020, City officials conducted a site visit of the West Pico Drill Site. The City was represented by the Zoning Administrator's Office, Office of Petroleum Administration, and the Fire Department.

Public Hearings were conducted on July 9, 2020 and August 27, 2020 to take formal testimony from the residents, stakeholders, community groups, and the operator. At the conclusion of the Public Hearings, the matter was taken under advisement and the record kept open until the Determination was issued.

Records from the Department of City Planning, the Department of Building and Safety, the Los Angeles Fire Department, the Southern California Air Quality Management District, and the California Department of Conservation Geologic Energy Management Division (CalGEM) were reviewed before issuing the Plan Approval determination. Also, a review of current oil drilling and oil production best practices used to safeguard communities was conducted as a part of the evaluation.

After consideration of the whole of the administrative record, the Zoning Administrator found that the Conditions of Approval of Determination BZA No. 2000-1697 have been and are being substantially complied with, though necessary inspections of the facility by government agencies will continue to ensure continued compliance. Additionally, the operator was in violation of Condition 36, Condition 39, Condition 49 and Condition 72 of the conditions of approval imposed by the Board of Zoning Appeal in its action taken on BZA No. 2000-1697 (the appeal of Case No. ZA-1989-17683-PAD). Also, the Zoning Administrator found the operator was in violation of clause 4b of the 2001 Settlement Agreement. Further, the Zoning Administrator's Office learned the operator's production facility is in violation of Municipal Code Section 13.01-F.26, which requires that all power operations be carried on by electrical power and that said power be generated off-site. As a result, and because this process did not include a review of conditions at the production portion of the drill site, the ZA instructed the operator to file a separate Plan Approval application to obtain the authorization for the installation of the micro-turbines on the production facility site, which were installed without the approval of the Zoning Administrator.

Public Correspondence

Over 50 letters and emails were received related to the project before the Determination was issued. The issues raised in the comments included alleged ongoing compliance issues at the site, health and safety concerns related to odors and other operations, lack of inspections, concerns with the Plan Approval review process and scope of the environmental review, among other concerns. A neighborhood petition with approximately 142 signatures was submitted expressing health and safety concerns related to the ongoing oil and gas drilling and production. For all public correspondence, see Exhibit F.

APPEAL ANALYSIS

Two (2) appeals were filed in a timely manner within the appeal period ending June 17, 2021. The appellants include:

A Amy Minteer of Chatten-Brown, Carstens & Minteer LLP on behalf of Neighbors for a Safe Environment
B Daniel Skolnick of Council District 5 on behalf of Councilmember Paul Koretz

The following is a summary of the appeal points and staff's response. The full appeal justifications are provided in Exhibit E. Appeal points are organized by appeal point topic (1, 2, 3, etc.) and then by appellant (A, B). Similar appeal points are grouped for staff response.

APPEAL POINT 1: COMPLIANCE WITH CONDITIONS

Appeal Point 1-A: *"[The Zoning Administrator's Determination] fails to impose or revise any conditions to ensure these violations and impacts are rectified."*

"The ZA Determination identifies a number of these violations, but then reverses itself and makes the overarching finding that there is substantial compliance with conditions of approval. This fails to "bridge the analytic gap between the raw evidence and ultimate decision," requiring the determination to be set aside as unsupported." "This failure to ensure compliance with conditions of approval is also a violation of the California Environmental Quality Act (CEQA)."

Appeal Point 1-B *"A review of the case file indicates that the operators of the facility failed to maintain compliance with all of the conditions of the Settlement Agreement and the requirements of the Los Angeles Municipal Code in addition to other regulatory requirements. The Conditions of Approval of Determination have not been substantially complied with. Require reports of the settlement agreement are absent from the case file and open orders to comply have not been resolved. Permit history is either absent or work was done without permits. No evidence of Mitigation Monitoring for the EIR has been submitted to the case file."*

"The Letter states on page 2 that the "Office of Zoning Administration review of the whole of the record found that the operator was in violation of Condition 36, Condition 39, Condition 49 and Condition 72 of the conditions of approval imposed by the Board of Zoning Appeal in its action taken on BZA No. 2000-1697 (the appeal of Case No. ZA-1989-17683-PAD). Also, the Zoning Administrator found the operator was in violation of clause 4b of the 2001 Settlement Agreement." I believe that those violations alone as detailed by the Zoning Administrator provide ample evidence that the Conditions have not been and are not being substantially complied with."

Staff Response:

This Plan Approval is the second Plan Approval related to whether the operation has complied with the conditions of approval for the 2000 modernization of the extraction portion of the drill site. The majority of the conditions imposed in the 2000 letter of determination were related to the construction activities associated with the modernization efforts.

The first review of the conditions of approval was completed in 2006 (ZA 1989-17683(PA1)) by Zoning Administrator Daniel Green, who determined that the operator was in full compliance with all 78 conditions of approval in BZA No. 2000-1697 (the appeal of Case No. ZA-1989-17683-PAD). The Zoning Administrator's 2006 determination letter was not appealed and therefore was final (the 2006 determination is attached as Exhibit I.)

The Plan Approval at issue is the second review of the conditions of approval related to the modernization efforts of the extraction portion of the drill site. This review considered all 78 conditions of approval again, but since the construction activity was completed and its 27 related conditions reviewed and determined to be compliant, the focus of the Zoning Administrator review was on the operational (40 conditions) and general (11 conditions) conditions of approval. Of the 51 operational and general conditions, four conditions of approval were determined to be non-compliant. In sum, four out of 78 conditions imposed in conjunction with the modernization efforts on the extraction portion of the drill site were determined to be non-compliant. Of the four non-compliance conditions, it was the actual reporting that did not occur in a timely manner in three instances. The fourth alleged violations required clarification as to whether the electrical power source is from the Department of Water and Power, which it is.

The appellants' reference to "all of the conditions" overlooks the fact that the construction related conditions were reviewed many years ago and it was determined that the modernization project complied with those conditions at the time. No appeal of the Zoning Administrator's 2006 action was filed and the conclusions reached in that document cannot be challenged now

The appellant also claims the Zoning Administrator failed to impose or revise conditions to ensure the "violations do not occur again." As stated in the determination letter, two of the four violations identified have already been corrected: the Spill Prevention Plan was submitted to the case file Condition No. 36) and the Zoning Administrator verified that "the drill (oil and extraction) site is electronically powered by the Department of Water and Power through a 3,500-KVA transformer Condition No. 49. Two other conditions of approval (Condition Nos. 39 and 72) will be complied with within 60 days of the final action related to this Plan Approval.

The Zoning Administrator's decision was based on the evidence presented with respect to the application or case by the operator, stakeholders, and relevant public agencies. This evidence was compiled into the administrative record, which contains all of the evidence presented to the Zoning Administrator for consideration in connection with the application or case. Ultimately, the Zoning Administrator's determination was supported by substantial evidence in the record. Although this Plan Approval procedure did not require the Zoning Administrator to make specific findings (such as would be required in a Conditional Use Permit or Zone Variance), the Zoning Administrator's determination contains a thoughtful discussion of the thought process and reasoning for reaching arriving at his conclusion.

APPEAL POINT 2: ADDITIONAL CONDITIONS

Appeal Point 2-A: ***"****The ZA Determination includes factual conclusions that concur with several of the Municipal Code violations identified by NASE, but does not require any corrective actions, instead allowing them to continue without any consequences."*

"The Zoning Administrator stated at public hearings for this Plan Approval review that the adequacy of conditions would not be evaluated, which violates the Settlement Agreement use of Condition 78 to set the scope and process for 5 Year "Reviews of Conditions" that "evaluate the efficacy of mitigation measures" and change them if warranted."

Appeal Point 2-B: ***"****The concerning record detail shows a substantial violation of the Agreement for well over a decade, merit the imposition of additional conditions and corrective measures, including:*

a) A condition requiring the installation of an air monitoring system so as to protect the residents surrounding the drill site from fugitive emissions such as those as detailed in the Letter and to allow the

South Coast Air Quality Management District (SCAQMD) to better track such.

b) A condition such as that already agreed to by the Rancho Park Drill Site operator and the surrounding neighborhood residents and actively requested by the West Pico Drill Site operator in these proceedings to, until such time the City of Los Angeles has in place its own annual inspections ordinance, hire a third party consultant to perform an annual inspection of the West Pico Drill Site and to deliver those findings to the City of Los Angeles Petroleum Administrator within sixty (60) days of the inspection annually."

Staff Response:

The operator was found to be non-compliant with just four of 78 conditions of approval; two of the four were immediately addressed by providing the Spill Prevention Plan and verifying that the extraction site is electronically powered by the Department of Water and Power. The two other outstanding matters are related to submitting the actual documents to the Planning Department case file. The operator is instructed to provide the reports from the noise monitoring system and documents from CalGEM within 60 days of the final action related to this Plan Approval

Substantial evidence indicating a nuisance stemming from the oil drilling operation was not evident in the case file, site visit or testimony, and therefore, there was no need for additional conditions to be imposed by the Zoning Administrator.

Regarding annual inspection reporting or the installation of air monitoring system, the Council Office and the Office Petroleum Administrator may choose to work together with the operator to develop a processes and procedures for annual inspections, report, and monitoring. There is not sufficient evidence within this Plan Approval Compliance review to impose a condition requiring annual inspection reporting or the installation of an air monitoring system at this time.

APPEAL POINT 3: SETTLEMENT AGREEMENT

Appeal Point 3-A: **"***While the ZA Determination states that the City will continue with the required reviews going forward, this fails to address the impacts to NASE and others in the surrounding community that resulted from the many years the reviews were not conducted and there were numerous violations as the site."*

Appeal Point 3-B: **"***The fact that the operator did not in 2019 initiate a Plan Approval process, nor in 2011, nor in 2006, is, in and of itself, an ongoing and substantial violation of the Agreement with NASE."*

"Items from the [2001 Settlement] Agreement were not mentioned in the Letter of Determination, nor are the reports they detail to be found in the case file, which is a substantive omission."

Staff Response:

The 2000 approved modernization of the oil extraction portion of the controlled drill site required compliance with 78 conditions of approval. The conditions of approval were initially imposed by the Zoning Administrator in its approval of the project, and were upheld by the Board of Zoning Appeal, when it denied an appeal of the Zoning Administrator's action. The Board of Zoning Appeals action was subsequently litigated which resulted in the 2001 Settlement Agreement, that

required, among other things, the operator file a Plan Approval every five years to determine compliance with the conditions of approval.

In the 2001 Settlement Agreement, NASE and /or the operator agreed to conduct studies relating to the operation of the drill site following the completion of the modernization project. These studies were performed by NASE and/or the Operator, and were reviewed and discussed by the Zoning Administrator (Danial Green) in his 2006 Determination, attached as Exhibit I. Any documents provided to the City by NASE and/or the Operator are included in the case file for ZA for Case No. ZA-1989-17682-PA1, including the Health Risk Assessment prepared by Geomatix for NASE in 2005 (Exhibit G). The Settlement Agreement did not require that these studies be ongoing or repeated beyond the time frames required by the Agreement.

The Zoning Administrator also notes that several conditions mentioned in the appeals were time limited. For example, Condition No. 37 SCAQMD Reporting, states that the Office of Zoning Administration shall request that the SCAQMND report every two weeks to the Office of Zoning Administration on the air quality at the drill site during the first two years of operation, including reporting of all inspections and reports of complaints. The Zoning Administrator in its 2006 compliance review was satisfied with the reporting and therefore, the condition was deemed in compliance.

Condition No. 38, Odor Monitoring, states that the applicant (operator) shall hire an independent consultant, approved by the Zoning Administrator, to perform weekly odor monitoring during the months of June, July, August and September for the first two years of operation and report the result to the Office of Zoning Administration. Thus, only during the first two years of operating after receiving an approval, the reporting of odor was required to be performed by an independent consultant, which was approved by the Zoning Administrator. The Zoning Administrator in its 2006 compliance review was satisfied with the reporting and therefore, the condition was deemed in compliance.

There was no appeal of the Zoning Administrator’s compliance review determination that the operator was in compliance with all of the condition of approval including construction and operational conditions.

Since 2006, the conditions of approval related to the construction activity for the modernization project have been determined to be compliant, and practically speaking, do not require regular compliance review because the construction activity was completed prior to the 2006 Plan Approval review.

As for the operational conditions, the 2006 determination concluded the operational aspect of the modernization project complied with all relevant conditions of approval. It is true that since 2006, the applicant has not applied for a Plan Approval as required by the Settlement Agreement, nor has the Department of City Planning conducted another compliance review. However, there has also been very little documented evidence of violations of the operational conditions, except for the four violations mentioned above.

The Zoning Administrator acknowledges that many stakeholders expressed concerns about the presence of the drill site and acknowledges that testimony was provided at the public hearings relating to smells and noises from the drill site. However, the whole of the administrative record lacked evidence demonstrating continued violation of specific conditions of operation that would warrant a finding that the operator has violated a condition of approval.

APPEAL POINT 4: MICROTURBINES

Appeal Point 4-A: *"The operator is also in violation of LAMC § 13.01.F.26 due to the installation of microturbines at 9151 West Pico Boulevard. The ZA Determination acknowledges this violation, but does not impose any remedial conditions or required environmental review. Instead, the "Staff Review" section of the determination suggests an application for the micro-turbines is required to be submitted, proposing segmented or piecemealed cases to possibly take the place of a single larger review that could view the entirety of violations, deficient conditions, and at least 25 projects executed illegally. Splitting this up into smaller bites obscures the totality of environmental impacts and violates CEQA's requirement that the whole of a project—"all phases of project planning, implementation, and operation"—are to be considered when assessing environmental review for a project."*

Appeal Point 4-B: *""The Zoning Administrator's Office learned the operator's production facility is in violation of Municipal Code Section 13.01-F.26, which requires that all power operations be carried on by electrical power and that said power be generated off-site.""*

Staff Response:

This appeal point ignores the action before the Zoning Administrator. This Plan Approval was limited to determining the effectiveness of the conditions of approval related to the modernization of the extraction portion of the drill site only. The conditions of approval were derived from mitigation measures from an Environmental Impact Report (EIR) for the modernization of the drill site, certified in 2000. The mitigation measures were adopted as conditions of approval by the Zoning Administrator, approved by the Board of Zoning Appeals. The review of the conditions of approval is in response to a requirement or obligation to examine the effectiveness and compliance by the operator for just the modernization of the drill site, pursuant to a settlement agreement entered into to resolve litigation relating to the certification of the EIR.

The modernization project involved only the extraction portion of the controlled drill site, not the production site, and the EIR evaluated only the modernization of the extraction portion of the drill site. The Zoning Administrator's review during the Plan Approval review was consistent with the other decision-making bodies associated with approving the modernization of the extraction portion of the drill site.

The Zoning Administrator considered the effectiveness of the conditions of approval for the production facility site operation as outlined in Case No. ZA-18893. However, since the production facility is not part of the modernization project, the Zoning Administrator suggests that an application for a Plan Approval be submitted, and authorization be obtained for the installation of the microturbines. The application is due no later than 90 days from the final effective date of this decision.

APPEAL POINT 5: DRILL SITE

Appeal Point 5-A: *"As identified by NASE, the Zoning Administrator and the operator have been in violation of Los Angeles Municipal Code (LAMC) § 13.01.E.2.b since the 2000 approval in ZA-1989-17683-PAD because only one Controlled Drill Site can exist in Oil Drilling District U-131. The current ZA Determination in ZA-1989-17683-PA2 continues to insist there are two sites, despite having been shown the pertinent code and the record of ZA*

determinations from the opening of a single Controlled Drill Site in 1965 until the error of the ZA-1989-17683-PAD in 2000 purporting to see two distinct sites."

"Because the 2000 ZA approval for the site was issued in violation of these Municipal Code provisions, the 2000 approval, and all subsequent approvals and City permits that rely upon it, should be deemed void pursuant to LAMC § 11.02.

Staff Response:

Appellant's argument is not well taken. There is only one Controlled Drill Site, which is comprised of two parts: a drill (extraction portion) site and a production facility (see page 6). In 1965, the Controlled Drill Site, which was primarily extracting oil, was approved by the Zoning Administrator (ZA-17683) to service oil drilling districts U-131, U-132, and U-150. The Controlled Drill Site expanded in 1967 to include a production facility when Ordinance No 18893 was adopted by the City Council (See Exhibit J). The West Pico Drill Site is a formal Controlled Drill Site with a drilling (extraction) portion and a production facility portion. The July 28, 1967 letter of determination specifically noted that the Zoning Administrator was authorizing the "expansion" of the existing controlled drill site, to create an "enlarged controlled drill site," not the creation of a second drill site within the Oil District.

LAMC Section 13.01- defines a "Controlled Drill Site" as the particular location within an oil drilling district in an "Urbanized Area" upon which surface operation for the drilling, deepening or operation of an oil well or any incidental operation are permitted under the terms of this section, subject to the conditions prescribed by written determination by the Zoning Administrator."

The modernization project approved in 2000 involved the extraction portion of the controlled drill site. No split of the controlled drill site occurred in the 2000 approval.

APPEAL POINT 6: RE-DRILLING

Appeal Point 6-A: *"Condition 72 is in direct contradiction with LAMC §§ 13.01.H and 13.01.I because it allows redrilling of wells without a full discretionary review by the ZA, which has been expressly required by Code since at least 1955. The ZA Determination acknowledges this contradiction but fails to require any revision to the condition and compounds the error further in its unsupported interpretation of this condition. Condition 72 speaks only of "redrilling"; it does not mention drilling of new wells or conversion of wells between Class A and Class B (i.e., production and injection). The ZA Determination nevertheless stretches the already illegal Condition 72 to cover new wells and converted wells."*

Staff Response:

Condition No. 72 was imposed on the oil drilling (extraction) site as part of the modernization project (see Determination Letter, Page 27). The operator has a vested right to this condition, which gives the operator the authority to drill and re-drill without obtaining further written approval from the Zoning Administrator's office. The operator may drill up to 69 wells (as permitted by Case ZA-17683) but as with any new well, the operator must also obtain authorization from CalGEM, formerly the California Division of Oil, Gas and Geothermal Resources. As of 2000, the operator had drilled 59 wells and the condition authorized ten additional wells provided state authorization was obtained.

As for any existing well, the operator is only required to produce copies of the re-drilling filings as such wells are already authorized by the City of Los Angeles and the State of California. So, converting any of the existing 59 wells from production to injection, or injection to production, only requires that the copies of the filings to CalGEM be sent to the Zoning Administrator's office.

The Zoning Administrator acknowledges the failure of the operator to send copies of the filings pertaining to the drilling activities. The operator was instructed to submit copies to the office of Zoning Administrator within 60 days.

APPEAL POINT 7: ENVIRONMENTAL CLEARANCE

Appeal Point 7-A: *"The ZA Determination is essentially using a Class 1 exemption to legitimize years of illegal actions, which this exemption is not intended to do." "It deprives the public and decision makers of information necessary to assess the Project's impacts."*

"A Class 21 exemption exempts enforcement actions from environmental review. The ZA Determination fails to acknowledge the significant irony in relying on this exemption after identifying noncompliance but imposing no corrective enforcement actions."

"To the extent this Plan Approval reviewed any of the illegal drilling, redrilling, and converting of wells that has been conducted at the site since 2000, the City is prohibited from relying on a categorical exemption by its own CEQA guidelines in ZA Memo 133."

"Exceptions to reliance on a categorical exemption also apply. CEQA prohibits use of a categorical exemption when there is a reasonable possibility that the activity will have a significant effect on the environment due to unusual circumstances." (CEQA Guidelines § 15300.2, subd. (c).) The ongoing legal violations on the site are unusual circumstances and those unusual circumstances have led to and will continue to lead to adverse air quality, odor, noise and other impacts on the surrounding community."

Staff Response:

As stated in Public Resources Code § 21065, a "project" as defined for CEQA review, must be "an activity which may cause either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment." While it would have been reasonable for the City to determine that the Zoning Administrator's review of compliance with and effectiveness of the conditions imposed under a previous entitlement was not a project pursuant to CEQA due to the lack of direct or indirect physical change in the environment, the City nonetheless issued Class 1 and Class 21 categorical exemptions.

The City provided detailed justification for its use of these categorical exemptions in the Zoning Administrator's Determination. The whole of the administrative record supports the City's use of these exemptions.

Class 1 and 21 categorical exemptions, at issue here, are the appropriate categorical exemptions for unmodified, continued operation of an existing drill site and related compliance review. As detailed in the Zoning Administrator's Determination and the administrative record, the City has provided substantial evidence to supports its determination that the review is exempt from CEQA pursuant to CEQA Guidelines, Section 15301 (Class 1) and Section 15321 (Class 21), and there

is no substantial evidence demonstrating that an exception to a categorical exemption pursuant to CEQA Guidelines, Section 15300.2 applies.

Pursuant to CEQA Guidelines Section 15301, a Class 1 exemption is for existing facilities and, "the key consideration is whether the project involves negligible or no expansion of use." The Zoning Administrator's Determination was provided in response to the applicant submitting documentation, as required by a Settlement Agreement; the applicant did not propose any expansion of previously permitted use. The Settlement Agreement did not obligate the City to perform de novo environmental review on the scope of the oil drilling operation as a part of the required condition review. The Class 1 exemption issued for this review was not as the appellant suggests to legalize illegal actions rather, the Class 1 exemption clarifies that the Zoning Administrator's Determination does not expand the scope of the existing oil drilling operations.

Pursuant to CEQA Guidelines Section 15321, a Class 21 exemption is for enforcement actions by regulatory agencies and, "the adoption of an administrative decision or order enforcing or revoking the lease, permit, license, certificate, or entitlement for use or enforcing the general rule, standard, or objective." The "significant irony" claimed by the appellant is not an exception to an exemption nor can it be considered as an unusual circumstance. The regulatory action would not result in any physical impacts on the environment.

The City's determination that this review falls within the Class 1 and 21 categorical exemptions also includes findings that demonstrate that none of the exceptions identified in the CEQA Guidelines apply. Here, the burden shifts to the challenging party to produce evidence showing that one of the exceptions applies to take the review out of the exempt category. The Appellants have not met their burden as there is no evidence in the record to conclude that any of the exceptions otherwise apply. Argument, speculation, unsubstantiated opinion, or narrative does not constitute substantial evidence.

Appellant's next suggestion that the City is prohibited from relying on a categorical exemption by its own "CEQA guidelines in ZA Memo 133" is not a correct statement. ZA Memorandum No. 133 (ZA Memo 133 or ZA Memo, attached as Exhibit H) is a policy memorandum establishing a revised set of standardized procedures for the acceptance and processing of future discretionary applications for oil drilling approvals pursuant to LAMC Section 13.01-H. This code section reads in pertinent part, "[any] person desiring to drill, deepen or maintain an oil well….shall file an application in the Department of City Planning on a form provided by the Department, requesting a determination of the conditions under which the operations may be conducted." (LAMC Section 13.01-H.) As this Plan Approval did not involve a request by the operator to "drill, deepen, or maintain an oil well, then neither the applicant, nor the City, was required to follow ZA Memo 133.

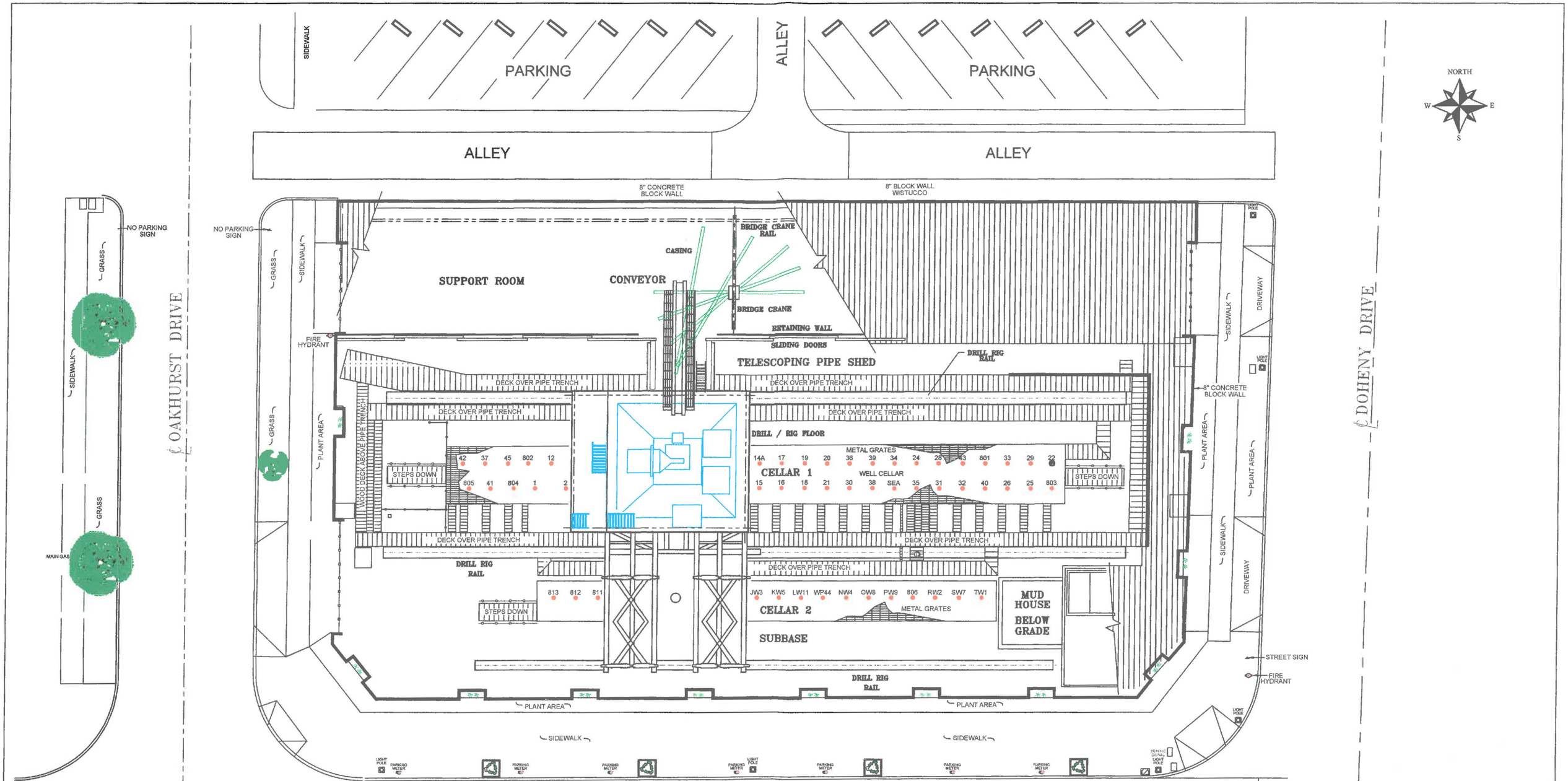
CONCLUSION

In consideration of the foregoing, it is submitted that the Zoning Administrator acted reasonably in approving Case Nos. ZA-1989-17683-PA2 and ENV-2020-1328-CE. Upon in-depth review and analysis of the issues raised by the appellants, no errors or abuse of discretion by the Zoning Administrator were found in regards to the appeal points raised. For the reasons stated herein, and as provided in the Zoning Administrator's Determination, the appeals cannot be substantiated and therefore should be denied. Therefore, it is recommended that the West Los Angeles Area Planning Commission Deny both appeals; Determine, based on the whole of the administrative record, that the Project is exempt from the California Environmental Quality Act (CEQA) pursuant to CEQA Guidelines, Article 19, Section 15301 (Class 1) and Section 15321 (Class 21), and there is no substantial evidence demonstrating that an exception to a categorical exemption pursuant to CEQA Guidelines, Section 15300.2 applies; Sustain the Determination by the Zoning Administrator, and Adopt the Zoning Administrator Determination.

ZA-1989-17683-PA2-1A

EXHIBIT A

Plan Set



ZA-1989-17683-PA2

DWG NUMBER	TITLE	DWG NUMBER	TITLE
REFERENCE DRAWINGS		REFERENCE DRAWINGS	

WEST PICO DRILL SITE

DATE	REV	DESCRIPTION	BY	APPR	EPS ENG
2/26/2020	B	REVISED PER FIELD COMMENTS	VC	–	–
2/24/2020	A	ISSUED FOR REVIEW & COMMENTS	VC	–	–

Energy Project Solutions LLC

WEST PICO DRILL SITE
9101 W. PICO BOULEVARD
LOS ANGELES, CALIFORNIA
FACILITY PLOT PLAN

ENGINEER:	Mike Finch
CO. ENG:	—
PROJ. MGR:	—
DESIGNED BY:	—
DRAFTED BY:	V. Ceigerkansky
ORIGINAL DWG NO.	—
DATE: 4/7/16	SCALE: NOTED
DRILL SITE PLOT PLAN	REV. B
CAD FILE NO. EPS-WPDRILL-PLN-100	

WEST PICO PRODUCTION SITE

NORTH
W E
S

℄ CARDIFF AVE.

℄ OAKHURST DR.

TANK 504 WASTE WATER TANK 12,044 GALLONS
TANK 505 WELL CLEAN-UP TANK 12,044 GALLONS
TANK 320 INJECTION WATER TANK 11,172 GALLONS
PUMP
DRUM STORAGE AREA
STAIRS
WEMCO (FLOTATION UNIT) 4,499 GALLONS
VAPOR RECOVERY COMPRESSOR
JETTING PUMP
TANK 503 CLARIFIER TANK 17,954 GALLONS
SUMP PUMP
FILTER SURGE TANK (WATER ONLY)
HPPS
TANK FARM
EXIT (ROLL UP DOOR)
VEHICLE ACCESS
2300 VOLT TRANSFORMER
ESP MEZZANINE
SWITCH GEAR ROOM 2300 VOLT
SWITCH GEAR ROOM 480 VOLT
ESCAPE BREATHING APPARATUS (EBA) 10 MIN.
RESTROOM
CHANGE ROOM
PANEL-2
CONTROL ROOM
OFFICE
PANEL-1
20 HP ELECTRIC PUMP
HT3 TREATER-3 15,000 GALLONS
FUEL SCRUBBER
RET TANK
WW PUMP
HT2 TREATER-2 15,000 GALLONS
HT1 TREATER-1 15,000 GALLONS
TEST SEPARATOR-2
RELIEF SCRUBBER (VENT)
RELIEF STACK
ACOUSTICAL SCRUBBER
GROSS SEPARATOR-2
WASTE OIL SUMP
WASTE WATER SUMP
GROSS SEPARATOR-3 (ABOVE TEST SEPARATOR-1 (BELOW)
GROSS SEPARATOR-4 (ABOVE GROSS SEPARATOR-1 (BELOW)
PIPE TRENCH (ALL PIPELINES FOR PRODUCTION SITE IN TRENCH OR IN TANK FARMS)
PIPELINES IN UNDERGROUND TRENCHES FROM DRILL SITE
TANK 502 LACT TANK-WEST (400 BBL)
TANK 501 LACT TANK-EAST (500 BBL)
LACT CHARGE PUMP
PO TRANSFER PUMP
PO CHARGE PUMPS
GAS SHUT OFF VALVE
MAIN GAS SCRUBBER
VR SCRUBBER
CSG GAS SCRUBBER
INST AIR DRYER
TWIST AIR-COMP (INSTR AIR)
COOLER
COOLER
SCRUBBER
SCRUBBER
COMPRESSOR
COMPRESSOR
V.R. COMPRESSOR
ESCAPE BREATHING APPARATUS (EBA) 5 MIN.
GAS ODORANT UNIT
LOW PRESSURE CO2 FIRE EXTINGUISHING SYSTEM
HPPS
INJECTION PUMP ROOM
HPPS
REDA PUMPS
P-2
P-3
P-1
P-4
LACT
LACT UNIT W
LACT UNIT E
SHIPPING PUMP W
SHIPPING PUMP E
EXIT (ROLL UP DOOR)
CENTRIFUGE
COMPRESSOR ROOM

SYMBOL LEGEND

- 150 LB. WHEELED EXTINGUISHER
- PORTABLE FIRE EXTINGUISHER
- DRY CHEMICAL FIXED EXTINGUISHER
- 1 1/2" HOSE REEL
- MANUAL PULL STATION
- ESD
- FIRST AID KIT
- SAFETY SHOWER & EYE WASH
- BA
- FIRE PUMP
- MONITOR NOZZLE
- MANUAL GAS SHUTOFF VALVE
- MANUAL SALES GAS LINE SHUTOFF VALVE
- CO2 FIRE NOZZLES
- ESCAPE BREATHING APPARATUS (EBA)
- DRAINAGE FLOW DIRECTION

℄ WEST PICO BLVD

ZA-1989-17683-PA2

0' 5' 10' 20' 30' 40' 50' 100' 200'

SCALE IN FEET

DWG NUMBER	TITLE	DWG NUMBER	TITLE
	REFERENCE DRAWINGS		REFERENCE DRAWINGS

DATE	REV	DESCRIPTION	BY	APPR	EPS ENG
2/19/2020	C	UPDATED PER FIELD COMMENTS	VC	~	—
2/18/2020	B	REVISED PER FIELD COMMENTS	VC	~	—
2/16/2020	A	ISSUED FOR REVIEW & COMMENTS	VC	~	—

Energy Project Solutions LLC

WEST PICO PRODUCTION SITE
9151 W. PICO BOULEVARD
LOS ANGELES, CALIFORNIA
FACILITY PLOT PLAN

ENGINEER:	Mike Finch
CO. ENG:	—
PROJ. MGR:	—
DESIGNED BY:	—
DRAFTED BY:	V. Ceigerkansky
	—
ORIGINAL DWG NO.	
DATE: 4/7/16	SCALE: NOTED
PRODUCTION PLOT PLAN	REV. C
CAD FILE NO. EPS-WPPROD-PLN-100	

ZA-1989-17683-PA2-1A

EXHIBIT B

Zoning Administrator's
Letter of Determination
ZA-1989-17683-PA2

OFFICE OF ZONING ADMINISTRATION
200 N. SPRING STREET, ROOM 763
LOS ANGELES, CA 90012-4801
(213) 978-1318

ESTINEH MAILIAN
CHIEF ZONING ADMINISTRATOR

ASSOCIATE ZONING ADMINISTRATORS
JACK CHIANG
HENRY CHU
JONATHAN A. HERSHEY, AICP
THEODORE L. IRVING, AICP
CHARLES J. RAUSCH JR.
CHRISTINA TOY LEE

CITY OF LOS ANGELES
CALIFORNIA

ERIC GARCETTI
MAYOR

LOS ANGELES DEPARTMENT
OF CITY PLANNING
EXECUTIVE OFFICES

VINCENT P. BERTONI, AICP
DIRECTOR

KEVIN J. KELLER, AICP
EXECUTIVE OFFICER

SHANA M.M. BONSTIN
DEPUTY DIRECTOR

ARTHI L. VARMA, AICP
DEPUTY DIRECTOR

LISA M. WEBBER, AICP
DEPUTY DIRECTOR

planning.lacity.org

June 2, 2021

Phil Brown (A/O)
Senior Vice President
Pacific Coast Energy Company
1555 Orcutt Hill Road
Orcutt, CA 93455

CASE NO. ZA-1989-17683-PA2
PLAN APPROVAL
9101 West Pico Boulevard
West Los Angeles Planning Area
Zone: C4-1VL-O
D.M.: 132B169
C.D.: 5 - Koretz
CEQA: ENV-2020-1328-CE
Legal Description: Lots 883-888, Block None, Tract TR 6380

Pursuant to California Environmental Quality Act (CEQA), I hereby DETERMINE:

That the project is exempt from CEQA pursuant to CEQA Guidelines Section 15301, (Class 1), and Section 15321 (Class 21) and, there is no substantial evidence demonstrating that any exceptions contained Section 15300.2 of the State CEQA Guidelines regarding location, cumulative impacts, significant effects or unusual circumstances, scenic highways or hazardous waste site, or historical resources applies.

Pursuant to Los Angeles Municipal Code Section 12.24 M, and as required by Condition No. 78 under Case No. ZA-17683(PAD), BZA No. 2000-1697 and clause 4.b of the 2001 Settlement Agreement, between the City of Angeles, Neighbors For A Safe Environment, (NASE), Rae Drazin, Ph.D., Mina Solomon, and Breitburn Energy Company LLC, to settle litigation relating to approvals for the construction and operation the West Pico Drill Site Modernization Project, Neighbors For A Safe Environment v City of Los Angeles, Los Angeles Superior Court Case No. BC240760] ("Settlement Agreement").

I hereby DETERMINE, based on the whole of the administrative record,

That the Conditions of Approval of Determination BZA No. 2000-1697 have been and are being substantially complied with, though necessary inspections of the facility by government agencies will continue to ensure continued compliance.

This Plan Approval determination results from the research and findings of this office, as well as the testimony raised by residents and stakeholders from the community surrounding the West Pico Oil Drill Site operation. This determination is in response to the application filed by the operator as mandated by clause 4.b of the Settlement Agreement.

Research of reports from the Department of City Planning, the Department of Building and Safety, the Los Angeles Fire Department, the Southern California Air Quality Management District, and the California Department of Conservation Geologic Energy Management Division (CalGEM) was conducted before issuing this determination. Also, a review of current oil drilling and oil production best practices used to safeguard communities was conducted as a part of the evaluation of the West Pico Oil Drill Site operation. This office also conducted a visit to the site on June 22, 2020.

This Plan Approval process began with a November 19, 2019 letter from the Chief Zoning Administrator notifying the operator of the West Pico Oil Drill Site that it was required to file a Plan Approval for a review of compliance with the conditions imposed under Case No. ZA-17683(PAD), as required by the Settlement Agreement.

On February 28, 2020, the operator submitted an application to the Department of City Planning for a Plan Approval (Case No. ZA-1989-17683-PA2) to review compliance with the conditions of approval imposed under Case No. ZA-17683(PAD). The applicant did not request any modification of any existing condition of approval.

A Public Hearing was conducted on July 9, 2020 to take formal testimony from the residents, stakeholders, community groups, and the operator. At the conclusion of the Public Hearing, the matter was taken under advisement to look into the public hearing notification process as it was reported that the call-in phone number was incorrect, and that the Zoning Administrator required additional time to research statements made during public testimony.

A second Public Hearing was conducted on August 27, 2020 after it was confirmed that an error occurred in the noticing of the July public hearing (the call-in phone number was incorrect on the notice). Testimony was again taken from the residents, stakeholders, community groups, and the operator. At the conclusion of the Public Hearing, the matter was taken under advisement.

The Office of Zoning Administration review of the whole of the record found that the operator was in violation of Condition 36, Condition 39, Condition 49 and Condition 72 of the conditions of approval imposed by the Board of Zoning Appeal in its action taken on BZA No. 2000-1697 (the appeal of Case No. ZA-1989-17683-PAD). Also, the Zoning Administrator found the operator was in violation of clause 4b of the 2001 Settlement Agreement.

Further, the Zoning Administrator's Office learned the operator's production facility is in violation of Municipal Code Section 13.01-F.26, which requires that all power operations be carried on by electrical power and that said power be generated off-site.

The details of these violations, as well as the Zoning Administrator's responses, are provided in the "Staff Review of Compliance with Conditions" section of the report.

AUTHORIZATION

Pursuant to LAMC Section 12.24 M, the Zoning Administrator may determine that existing uses may be extended on an approved site provided that plans are submitted to and approved by the Zoning Administrator.

Pursuant to LAMC 13.01-E.2(i) – A Zoning Administrator may impose additional conditions or require corrective measures to be taken if he or she finds, after actual observations or experience with drilling one or more of the wells in the district, that additional conditions are necessary to afford greater protection to surrounding property.

Pursuant to ZA-1989-17683(PA1) Condition No. 77 (Continued Oversight) - A Zoning Administrator may impose additional conditions of required corrective measures to be taken if he or she finds, after actual observation or experience with drilling one or more of the wells in the district, that additional conditions are necessary to afford greater protection to surrounding property, and Condition No. 78 (Review of Conditions) two years following the completion of construction, and the issuance of a Temporary or Permanent Certificate of Occupancy, the applicant shall submit a Plan Approval application ($523 fee) for the purpose of reviewing the effectiveness of these conditions. The applicant shall submit a 500-foot radius map with accompanying labels for owners and occupants. The applicant shall address each condition with appropriate supporting material, to the Zoning Administrator who shall contact all monitoring agencies, evaluate the neighborhood impacts of project operations and the efficacy of mitigation measures. The Zoning Administrator may impose corrective conditions of warranted. The Zoning Administrator may set the matter for public hearing if warranted.

Pursuant to clause 4.b of the 2001 Settlement Agreement, the operator is required to file a Plan Approval for compliance review on each five-year anniversary of the last review.

NOTICE

The applicant is further advised that subsequent contact regarding this Determination must be with the Development Services Center. This would include clarification, verification of condition compliance and plans or building permit applications, etc., and shall be accomplished **BY APPOINTMENT ONLY**, in order to assure that you receive service with a minimum amount of waiting. You should advise any consultant representing you of this requirement as well.

FINDINGS OF FACT

After thorough consideration of the statements contained in the application, the plans submitted therewith, and the statements made at the public hearings on July 9, 2020 and August 27, 2020, all of which are by reference made a part hereof, the whole of the administrative record as well as knowledge of the property and surrounding district, I find as follows:

BACKGROUND

The subject property is the oil and gas extraction portion of a controlled drill site, known as the West Pico Oil Drill Site, which was first permitted in 1965. The oil and gas extraction (drill) site is a level, rectangular-shaped, parcel of land consisting of approximately 0.706 acres, having a frontage of approximately 192 feet on the north side of Pico Boulevard and a uniform depth of 185 feet, divided by a through alley between Doheny Drive and Oakhurst Drive. The drill site is in the C4-1VL-O Zone and within Urbanized Oil Drilling District No. U-131 established by Ordinance No. 130,340.

Adjoining properties to the north of the subject property are zoned R3-1VL-O and are developed with two-story apartment buildings. Properties to the south across Pico Boulevard are zoned C4-1VL-O and are developed with low-rise commercial buildings occupied by a variety of commercial and religious uses. Adjoining properties to the east across Doheny Drive are zoned C4-1VL-O are a gas station and other commercial uses.

The property to the west of the drill site across Oakhurst Drive is zoned C4-1VL-O and improved with the production facility portion of the West Pico Drill Site operated by the applicant. This production site was authorized July 28, 1967 pursuant to Case No. ZA-18893, for Lots 1037,1038 and 1039, of Tract No. 6380 generally located at the northeasterly corner of Pico boulevard and Cardiff Avenue.

Pico Boulevard, adjoining the property to the south, is an Avenue I with a designated width of 100 feet and is fully improved with a paved roadway, concrete curb, gutter, and sidewalk.

Doheny Drive, adjoining the property to the east, is a Collector Street with a designated width of 66 feet and is fully improved with a paved roadway, concrete curb, gutter, and sidewalk.

Oakhurst Drive, adjoining the property to the east, is a Local Street with a designated width of 60 feet and is fully improved with a paved roadway, concrete curb, gutter, and sidewalk.

The alley, bisecting the property to the north is a through alley and is improved with asphalt pavement and concrete gutter within a 15-20-foot dedication. To the north of the alley is a parking area and an apartment building owned by the project applicant.

Following the adoption of an Environmental Impact Report on April 5, 2000, the Zoning Administrator approved a modification of existing conditions and methods of operation for the existing oil/gas extraction site, with existing approved maximum of 69 wells, and an approval of plans permitting a 129-foot in height electrically-powered derrick. In conjunction with permitting the new derrick, other modification of conditions included an increase in fencing around the entire drilling site to a height of approximately 25 feet from the existing 12-foot wall; the installation of a 24-hour noise and video monitoring system; and the installation of an early alert detection system to alert the Los Angeles City Fire Department (LAFD) of hydrogen sulfide and methane (Case No. ZA 17683(PAD)).

The subject property is presently developed with an oil drilling operation with 58 wells (previously there were 59 and the operator advised there is no plan to drill the additional 10 permitted wells.) The drill site is enclosed on all sides with 25-foot-high walls, except for the two parking lot areas. Trees and plantings line the exterior of the walls. The drill site consists of a support building, a moveable catwalk building surrounding and attached to the derrick (drilling tower), a drilling mud processing building, two well cellars that contain the wellheads, and incidental equipment and ancillary structures. The drilling tower is mobile and can be slowly moved along rails in order to access all wellheads. The permanent, mobile, electrically powered derrick is approximately 128 feet tall and enclosed within an architectural structure. The ground surface of the drill site is covered in concrete or asphalt at or near grade. Most permanent equipment is below grade in well cellars or located inside enclosed structures.

The operator also maintains the production facility site located to the west of the drill site, along Pico Boulevard between Oakhurst Drive and Cardiff Avenue. The production facility site, as authorized under Case No. ZA 18893, was not part of the modernization project analyzed in the 2000 EIR; thus, the production facility site was not addressed as part of the first Plan Approval (Case No. 17683(PAD)), its appeal (BZA 2000-1697) and the subsequent litigation or the 2001 Settlement Agreement. Further, the production facility site was not part of the 2006 Plan Approval (Case No. ZA 17683(PAD)(PA1)).

This Plan Approval, which applies to the drill site (oil and gas extraction), began with a November 19, 2019 letter from the Chief Zoning Administrator notifying the operator of the West Pico Oil Drill Site that it is required to file a Plan Approval for a review of compliance with the conditions imposed under Case No. ZA-17683(PAD). The letter from the Chief Zoning Administrator was in response to concerns raised by members of the public relative to the operation of the drill site and the enforcement of the 2001 Settlement Agreement. The Settlement Agreement requires the operator to submit an application for a plan approval every five years in order to conduct a compliance review to verify that the operator is complying with the conditions of approval outlined in the April 2000 determination.

On February 28, 2020, the operator submitted an application to the Department of City Planning for a Plan Approval (Case No. ZA-1989-17683-PA2) to review compliance with the conditions of approval imposed under Case Nos. BZA-2000-1697 and ZA-17683(PAD). The operator did not request any modification of any existing condition of approval. While the operator also maintains a production facility site along Pico Boulevard between Oakhurst Drive and Cardiff Avenue; the production facility site is not the subject of the Plan Approval application for the reason explained above.

On June 22, 2020, City officials conducted a site visit of the West Pico Drill Site as was the case in the 2006 Plan Approval review of conditions because oil drilling facilities are unique operations compared to most land uses in the City and given the heightened attention of the governing documents. The City was represented by the Zoning Administrator's Office, Office of Petroleum Administration, and the Fire Department.

Previous zoning related actions on the site/in the area include:

Subject Property:

Case No. ZA-17683-PAD-PA1 – On March 13, 2006, the Zoning Administrator determined that the conditions of approval have been and are being complied with, that the operation of the facility poses no ongoing health risk, that necessary inspections of the facility by government agencies will continue, and that further hearings of formal review by the Zoning Administrator are not indicated.

Case No. BZA 2000-1697 August 23, 2000 – The Board of Zoning Appeals denied the appeal and sustained the decision of the Zoning Administrator, while approving a modification of the existing conditions and methods of operation for the existing oil/gas extraction site (with an already approved maximum of 69 wells), and approval of plans, therefore permitting a 129-foot in height electrically-powered derrick, on Lots Nos. 883-888.

Case No. ZA-17683-PAD – On April 5, 2000, the Zoning Administrator approved a modification of existing conditions and methods of operation for the existing oil/gas extraction site (with an already approved maximum of 69 wells), and approval of plans, therefore permitting a 129-foot in height electrically-powered derrick, on Lots Nos. 883-888.

Case No. BZA 4121 – On March 7, 1990, OXY, USA, Inc.'s appeal was granted limiting portable derrick hours of operation to 8 a.m. to 5:30 p.m. Monday through Friday, not to exceed 10 working days a month, in lieu of OXY's request not to construct a structure to obscure oil dwelling and related equipment.

Case No. ZA-17683 – On April 17, 1965, the Zoning Administrator approved a drill site with an enclosed drilling structure, known as a derrick. Under Case Nos. CPC 18356, 18357 and 19667, respectively, Oil Drilling Districts U-131, U-132 and U-150 were created by the City Council.

Surrounding Properties:

Case No. ZA-18893 - On July 28, 1967, the Zoning Administrator authorized an extension of the controlled drill site for the installation and operation of additional production [Production Facilities Site] in connection with the existing or future oil wells as authorized.

Other Public Agency Actions:

Los Angeles Department of Building and Safety (LADBS)

Permit # 00010-10001-02105 - Permit issued January 6, 2003 for the [New One Story Building "Mud Bldg H2 Occ, 2,410 sq. ft Type V-N & Support Bldg S2 Occ 6,500 sq ft Type II-N" 1-sty PHASE I ONLY] TO CORRECT PARKING: 12 Existing "NO CHANGE" and legal description, location 9101 Pico Boulevard.

Permit # 00010-10000-0215 - Certificate of Occupancy issued July 30, 2003 for the Mud /Storage Building and Support structure, location 9101 Pico Boulevard.

Permit # 11045-90000-00107 – Permit issued May 19, 2011 for the changing out of an air compressor in the support bay, location 9101 Pico Boulevard.

Permit # 11045-90000-00111 – Permit issued May 24, 2011 for replacing an air compressor, location 9101 Pico Boulevard.

Permit # 17041-10000-43682 – Permit issued December 7, 2017 for the installation of an IPGSM system, located at 9101 Pico Boulevard.

Los Angeles Fire Department (LAFD)

February 7, 2013 - The Los Angeles Fire Department issued a Fire/Life Safety Violation notice ordering the operator to "Comply With the Requirement as Noted" following a Fire and Life Safety Inspection which revealed that the property was required to test and repair its protection equipment as prescribed by LAMC Section 57.01.35 and 57.20.15. *(The operator corrected the violation.)*

June 16, 2015 - The Los Angeles Fire Department issued a Fire/Life Safety Violation notice ordering the operator to "Comply With the Requirement as Noted" following a Fire and Life Safety Inspection which revealed that the property was required to provide on every oil well or mount on wall a sign or plate showing the LAFD number that is assigned to each oil well. *(The operator corrected the violation.)*

September 21, 2017 - The Los Angeles Fire Department issued a Fire/Life Safety Violation notice ordering the operator to "Comply With the Requirement as Noted" following a Fire and Life Safety Inspection which revealed that the property was violation of several section of the fire code. The operator was ordered to correct violations related to LAMC Section 57.5706.3.2.2. (Discharge and Combustible Material On Ground). *(The operator corrected the violation.)*

November 24, 2018 - The Los Angeles Fire Department issued a Fire/Life Safety Violation notice ordering the operator to "Comply With the Requirement as Noted" following a Fire and Life Safety Inspection which revealed that the property was violation of several section of the fire code. The operator was ordered to correct violations related to LAMC Section 57.5706.3.2.2. (Discharge and Combustible Material On Ground) and LAMC Section 57.5706.3.16.1 (Nonoperating Oil Wells) *(The operator corrected the violation.)*

February 25, 2020 - The Los Angeles Fire Department issued a Fire/Life Safety Violation notice ordering the operator to "Comply With Requirement As Noted" following an Annual Fire and Life Safety Inspection which revealed that the property was in violation of the municipal code and ordered to correct such violation. LAMC Section 57.5706.3.16.1 (Non-operating Oil Wells) states "Abandoned or reactivated oil well, in which for a continuous period of one year has not been in operation or has ceased to produce petroleum or natural gas shall be abandoned or reactivated in 30 days after notice has been given by the Chief." The operator has not filed in any application to abandon the wells nor has

there been an attempt to re-activate the wells. (*As of April 29, 2021, the operator has yet to correct the violation according to Inspector I. Rodriquez of the Fire Department Harbor Fire Prevention Unit. The Zoning Administrator understands that the operator is cooperating with the Fire Department to correct the violation.)*

South Coast Air Quality Management District (SCAQMD)

March 28, 2018 – SCAQMD issued a series of Permits to Construct relative to the installation of a microturbine on the operator's production facility site. The permits were granted with the requirement to comply with ten conditions. SCAQMD subsequently issued a series of Permits to Operate which were related to the Permits to Construct.

February 28, 2020 - SCAQMD issued a Notice of Violation for a leak over 50,000 ppm detected from Well #41 during [the] District inspection. The leak violated Rule 1173 which regulates Fugitive Emissions of VOC. The matter has since been corrected and the operation is in compliance; however, the violation has not been closed by the legal team of the SCAQMD.

Department of Conservation, Division of Oil Gas and Geothermal Resources (DOGGR), ((now California Geologic Energy Management Division (CalGEM))

April 17, 2019 - DOGGR issued a Safety Systems and Environmental Lease Inspection report for the West Pico Drill Site concluding that "[tested safety systems responded as designed. No violations were observed during the lease inspection."

PUBLIC HEARING

The initial public hearing on this Plan Approval application was conducted July 9, 2020, remotely in accordance with the Governor's Executive Order N-29-20 dated March 17, 2020 and due to the concerns over COVID-19. However, it was discovered upon the close of the hearing that the hearing notice was issued in error. A second remote public hearing was conducted on August 27, 2020.

Testimony from both hearings is incorporated into this report.

July 9, 2020 Testimony

Mike Finch – Applicant's Representative

- There are some items, we'd like to bring up as part of the compliance review, some communications we had with stakeholders, and some considerations for the Zoning Administrator,
- My opening remarks relate to the notice and the July 8th letter, which says something along the line that there is no request for modifications of any existing conditions of approval,
- The Pacific Coast Energy Company owns and operates the drill site located at 9101 West Pico Boulevard,
- We own the parking lots and the attached production site on the other side of Oakhurst Drive,

- We have 58 wells; previously there were 59 wells; West Pico Well 23 was abandoned; there are 7 injectors; there are 11 conductors remaining on the site,
- The drill site has the wells, the piping and rigs and associated drilling equipment and workover equipment,
- The fluids go through underground piping over to the production site, where the oil, gas and water is separated, and the water is returned back to the drill site where it is injected into the injector wells,
- The project was originally owned by Oxy until 1993, and then it was purchased by Breitburn Energy, that was from 1993 to 2016,
- Pacific Coast Energy Company (PCEC) became the owner from 2016 to 2019,
- PCEC is now under new ownership, through a company called New Bridge,
- I want to touch upon compliance review,
- Condition No. A-14 [Exterior Lighting] (from Case 17683-PAD [Exterior Lighting], talks about not having streetlights above the walls; the lights were installed at the request of PCEC; the lights are owned and operated by the City of LA,
- The idea is to light the area up to reduce some of the activity in the area,
- Condition No. B-36 [Spill Prevention Plan], A SPCC (spill prevention and control countermeasure) plan was provided as part of the submittal for the process; we are seeking clarification; the condition is lacking in direction.
- Typically, Spill Prevention Plans have to be reviewed every 5 years,
- Condition No. B-39 [Noise Monitoring] talks about quarterly noise report that have to be submitted.
- We have reviewed several of the noise exceedances and the majority are related to traffic, sirens, garbage trucks, gardeners,
- Going forward, it seems somewhat impossible to have a written report done and submit it quarterly,
- We would like to work with the ZA and the community to better manage the reporting,
- The noise monitoring system was down for about two months; it was repaired in February 2020,
- Condition B-49 [All Electric Power] is a condition that is interesting because it relates to drilling and re-working operations at the site, shall at all times be carried on by electrical power, and such power shall not be generated at the control drill site or in the district.
- We know now that that is not happening; however, we have another site which is the production site, and a micro turbine was installed in 2018,
- It is important as it relates to our request later in the presentation,
- Condition No. B-61 [Leak Detection and Odor Control] – we did not provide all the odor monitoring reports, but we provided a sampling,
- The reason is that we would have to scan 365 reports for several years,
- But we do in fact have those reports,
- Condition No. C-72 [Limitation of Well Redrilling] is a little bit confusing,
- There is some confusion on the operator's side as to what is required versus what is not required as it relates to drilling wells on the site,
- When you look at [LAMC Section] 13.01 H and I; there seems to be a conflict there,
- We want to seek additional guidance or clarification on such a condition,
- We have been working with one primary stakeholder who represents a couple folks,
- Through the discussions, we have a come up a few things we would like to offer up today, which we believe would be beneficial for everybody,
- It is categorized in our July 8th letter and also in an email dated June 19th,

- The three items discussed we are committed to doing, if the Zoning Administrator believes this would be helpful,
- The first item relates to several wells, two wells that had been drilled and there were some re-drills and some conversions that happened post 2000,
- Looking back on the case numbers on both the sites, we are interested if those are going to need some sort or Zoning Administrator approval retroactively,
- It was our understanding that there may be a condition in this Plan Approval that says come back at a later date through a subsequent process and go through and have those things approved,
- Another other item is related to the micro turbine on the production site,
- The other two items we'd like to offer up and are committed to doing, is to have condition that calls for an annual inspection of the site performed by the Petroleum Administrator or third party
- Last, we are willing to evaluate a fencing line area emissions monitoring system to see the economic and technical feasibility of such a system and potentially install a system,
- Really, what we are asking is to continue our operations with the conditions, with the exception of the items just discussed,
- We would like to see some changes that clarify existing conditions and also add some conditions that would provide a safer operation going forward,

Richard Weiner – Officer of N A S E

- We are a party in the lawsuit,
- The Settlement Agreement mandates a 5-year review of the drill site,
- I'm concern about the reported odor problems, and reported compliance problems,
- We believe there must be annual compliance inspections and 24-7 emissions monitoring,
- The City's failure to properly request an environmental review as required by CEQA, is disturbing,
- NASE and I are represented by Professor Michael Salman, who submitted an email to you,
- We endorsed his written submissions and statements given at the hearing,
- We want clarity and transparency to continue and be an essential part of the hearing and reporting,

Aria Zarifpour - South Crest Drive Resident

- The phone number on the flyer is incorrect; I had to do research to find this number,
- Lots of residents are not aware of this number,
- I would like to see a new hearing,
- I would like to see the same level of care and sensitivity provided to prevent the combustion on operating this drilling investment, extended to this community,
- There should be a review every 5 year as mandated 14 years ago,
- We have been left in the dark for 14 years,
- I propose four initiatives:
    1. The installation of an on-site 24-7 air quality monitoring system to ensure air quality violations are caught on the spot,
    2. An independent 3rd party oversight commission with no ties or input from the operator,
    3. Long term studies conducted to identify the correlation between higher health risk associated with living within 1,500-foot radius of the site,
    4. Annual on-site testing,

- I hope the safety and health of the community is more important than the status quo of non-compliance.

Michael Salman – Representative
- Emeritus Professor of History at UCLA, where I have studied the history and the present-day regulations of the oil industry,
- I represent Mr. Richard Wiener and Ray Drazin, they are officers of NASE,
- Parties to the 2001 Settlement Agreement with the City of LA that required this review to be held on a 5-year recurring basis,
- We prompted the Chief Zoning Administrator to order the holding of the review by notifying the City in November 2019 that it was out of compliance with the settlement agreement,
- We call for the City to conduct a complete compliance review,
- We did a review of the conditions, and we found 25 non-compliance issues,
- The LAMC has been clear such activities require zoning approval,
- LA refuses to do a complete compliance review,
- The Petroleum Administrator did a desk top inspection,
- The Petroleum Administrator missed everything,
- They did not consult with the state records,
- CalGEM records the show work done with approvals; that's wrong,
- There are no CE documents in the case file,
- We request 1) annual inspections, 2) [fence line] monitoring of emissions, 3) compliance with the 2001 Settlement Agreement, 4) 5-year performance monitoring.

Sofia Lewis - Resident
- I'm a resident with asthma,
- I'd like to know what's being done to prevent leaks,
- I was not aware of the oil drilling facility.

Sherry Lewis – Resident
- Senior Citizen with medical concerns,
- I noticed a foul smell in the air,
- The smell contributed to my stress,
- Health concerns limits my ability to shop only in the neighborhood,
- I support a plan for annual inspection,
- I support a plan for continue 24/7 monitoring.
- I support a plan for compliance with the settlement agreement,
- The company agrees to complying with the regulations.

Christina Pisano - Resident
- I'm concern with health affects; there is a lack of transparency,
- If I smell gas, who do I report it to,
- Who informs us about an emergency,
- I request a plan for annual inspection,
- I request a plan for 24/7 emission monitoring,
- I request a plan for compliance inspections,
- I'm disappointed that they're putting profits over people.

Amy Zelzer - Beverly Boulevard Resident
- I'm an attorney who represented Porter Ranch,
- There should be clear signage of an oil drilling operation,

- People need to know; people exposed to constant exposure are at risk,
- There should be an annual inspection report; there should be 24/7 monitoring,
- There should be ½ mile buffer to protect the community.

Charlie Carnow - Alcott Street Resident
- I'm perplexed about the hearing notice, the categorical exemption review,
- This is surprising; I'm for 24/7 emission monitoring,
- There should be signage for complaints in the front of the facility.

Dr. Rae Drazin, PhD
- N A S E member,
- The Settle Agreement is not being enforced,
- There are still concerns.

Rabbi Yonah Bookstein – Pico Robertson Health Coalition
- I represent the Pico Robertson Health Coalition,
- Some callers are members of the coalition,
- It's unacceptable that the hearing notice had the incorrect number,
- I question that the hearing is completely transparent,
- I want to focus on two issues:
  1. Chemical smells came from the operation and we had to have people vacate the building,
  2. The plan approval has shown to be unacceptable; so how can the hearing be conducted without a proper environmental report?
- I'm puzzled by the lack attendance,

Daniel Scholnik – CD 4 Representative
- The wrong phone number is inexcusable,
- The Council District Office wants the drill site shut down.

August 27, 2020 Testimony

Mike Finch – Representative, Pacific Coast Energy Company, LP
- I want to cover the following topics: I got a couple of opening remarks, I'll talk the site location and the general description of the operation, the ownership history, PCEC compliance review of conditions, working with some stakeholder and some considerations for the Zoning Administrator,
- My opening remarks go back to our letter dated July 8, 2020, as it relates to the hearing notice,
- There is no request for modifications of existing conditions of approval; I want to bring it to your attention because it will be relevant,
- The site location and general description of the operation,
- My opening remarks relate to the notice and the July 8th letter, which says something along the line that there is no request for modifications of any existing conditions of approval,
- The Pacific Coast Energy Company owns and operates the drill site located at 9101 West Pico Boulevard,
- We own the parking lots and the attached production site on the other side of Oakhurst Drive,
- We have 58 wells; previously there were 59 wells; West Pico 23 was abandoned; there are 7 injectors,
- Now there are 11 conductors remaining on the site,

- The drill site includes the wells, the piping and rigs and associated drilling equipment and workover equipment,
- The fluids go through underground piping over to the production site, where the oil, gas and water is separated, and the water is returned back to the drill site where it is injected into the injector wells,
- The project was originally owned by Oxy until 1993, and then it was sold to Breitburn Energy, that was from 1993 to 2016,
- Pacific Coast Energy Company then became the owner from 2016 to 2019,
- PCEC is now under new ownership, through a company called New Bridge,
- I want to talk about compliance review on Case No. 17683 from the 2000 approval,
- Condition No. A14, basically says there are not supposed to be any streetlights installed above the wall of the facility,
- There were some lights installed at our request by the LADWP and operated by LADWP, but paid for by PCEC,
- That's a condition we would like to have looked at,
- Condition No. B-36 [Spill Prevention Plan] A SPCC (spill prevention and control countermeasure) plan was provided as part of the submittal for the process; not sure if this was submitted on an ongoing process,
- The condition is vague, and we would like to get some clarity as to how often we are supposed to submit the SPCC plan,
- Typically, the plan a reviewed every 5 years or sooner, if substantial changes occur,
- [Condition No.] B-39 A-6, [Noise Monitoring] ask for a quarterly noise report to be submitted,
- We have reviewed several of the noise exceedances and the majority are related to traffic, sirens, garbage trucks, gardeners,
- Going forward, it seems somewhat impossible to have a written report done and submit it quarterly,
- We would like to work with the ZA and the community to manage the reporting better,
- [Condition] B-39 [Noise Monitoring], we had our noise monitoring system down for about two months,
- It was repaired in February 2020,
- [Condition] B-4 [All Electric Power] is a condition that is interesting because it relates to drilling and re-working operations at the site which shall at all times be carried on by electrical power, and such power shall not be generated at the control drill site or in the district.
- We know now that that is not happening; however, we have another site which is the production site, and a micro turbine was installed in 2018,
- It is important as it relates to our request later in the presentation,
- Condition No. B-61 [Leak Detection and Odor Control] – we did not provide all the odor monitoring reports, but we provided a sampling,
- The reason for that is that we would have to scan 365 [reports] for several years,
- But we do in fact have those reports.
- Condition No. C-72 [Limitations on Well Redrilling] C72 is a little bit confusing.
- There is some confusion on the operator's side as to what is required versus what is not required as it relates to drilling wells on the site,
- When you look at [LAMC Section] 13.01 H and I; there seems to be a conflict there,
- We want to seek additional guidance or clarification on such a condition,
- We have been working with one primary stakeholder who represents a couple folks,

- Through the discussions, we have come up with a few things we would like to offer up today, which we believe would be beneficial for everybody.
- It is categorized in our July 8th letter and also in an email dated June 19th,
- There are three items discussed we are committed to doing, if the Zoning Administrator believes this would be helpful,
- The first item relates to several wells, two wells that had been drilled and there were some re-drills and some conversion that happened post 2000,
- Looking back on the case numbers on both the sites, we are interested if those are going to need some sort of Zoning Administrator approval retroactively,
- It was our understanding that there may be a condition in this Plan Approval that says come back at a later date through a subsequent process and go though and have those things approved,
- Another item is related to the micro turbine on the production site,
- The other two items we'd like to offer up and are committed to doing is to have condition that calls for an annual inspection of the site performed by the Petroleum Administrator or third party
- Last, we are willing to evaluate a fencing line area emissions monitoring system to see the economic and technical feasibility of such a system and potentially install a system,
- Really, what we are asking is to continue our operations with the conditions, with the exception of the items just discussed,
- We would like to see some changes that clarify existing conditions and also add some conditions that would provide a safer operation going forward,

Linda Theung – Board Member South Robertson Neighborhood Council

- The governing board discussed this review and compliance problems at the site and the need for the ZA to assign new conditions,
- We are deeply concern about the record of compliance problems, including odor problems, the Fire Department, South Coast Air Quality Management District citations and the failure to hold 5-year reviews,
- There have been 25 unapproved projects that have been executed since 2000,
- We are deeply troubled by the City's failure enforce conditions and to perform a comprehensive compliance inspection before bringing case to hearing, and the City's refusal to perform an environmental review as required by state law, and city guidelines,
- Our board voted on June 18 to send a letter on this case; we heard at the meeting the operating company was willing to acknowledge in writing that there have been 25 unapproved projects executed at the site since 2000,
- Two new, twelve redrilling, and the conversion of 10 wells from producer to injector,
- All required discretionary review and approval by the Zoning Administrator per the code,
- PCEC sent a letter to the Zoning Administrator acknowledging the 25 projects did need a review,
- Our letter dated June 18th did not reference the full scope of the project,
- All of these unapproved projects require CEQA review and are ineligible for a categorical exemption,
- Splitting the projects from the current review will be illegal piecemealing, in order to obscure the fullness of the environmental impact,

Charlie Carnow – Alcott Street Resident

- I want to echo the Neighborhood Council's comment,

- Not sure why we are here; it appears PCEC agrees that the conditions need changes,
- We need annual emissions monitoring, annual inspection and 24-7 emissions monitoring,
- The environmental review has exceptions to the exceptions provided by categorical exemptions,
- There admittedly are tons of unpermitted drilling sites on the property,
- Not sure why its controversial that we would need a more thorough environmental review, given a lot of the assumptions of the approval were violated or were wrong,
- I hope the conditions are changed to reflect what the community has demanded and to get the appropriate environmental review.

Scott Silver – Real Estate Attorney and Investor

- I live two blocks south of the Rancho Park Drill Site,
- It is connected to this drill site; for me, it is like ground hog day,
- Following the November 17 Mercaptan spill, I became more educated about oil drilling,
- The City has a lack of monitoring and enforcement of existing conditions of zoning,
- And the Zoning Administrator is unwilling to add conditions to zoning, even when the public is calling for conditions to be placed on the site,
- Mr. Irving, you were the ZA in the [Rancho Park] case, and I was upset to hear that unless there is a public nuisance at the drill site then the conditions of annual inspect and emission monitoring are not required.
- Why should you wait until there is a nuisance to have these public safety laws enacted and enforced?
- The City should be doing annual inspections and emissions monitoring to prevent a nuisance and not in response to a nuisance,
- The drill site owners have been more responsive and transparent, and voluntarily want to bring their sites up to code,
- They invite our inspections; they invite City inspections,
- The City Council and our Council Districts say they are going to do these inspections, but it has been three years since the City Council instructed the City Attorney draft an ordinance for inspections,
- This is another opportunity to finally walk the walk, not just talk the talk,
- The oil company is conceding to the request of the community and agreeing to the conditions of emissions monitoring and annual compliance inspections,
- Let's not wait for a nuisance, spill or emergency and let's start doing the annual inspection,

Cherie Lewis- Attorney / Senior Citizen

- Because of the polluted air and smells, I limit my time in the area,
- Sad, I cannot fully shop in my own neighborhood because of health concerns,
- I'm sad for the children attending schools in the area,
- I support the plan to correct the violations of the Settlement Agreement, California State law and Los Angeles city law,
- I support the plan to monitor the drill site on a 24-7 basis, and to conduct annual inspections of the drill site,
- I thank the drill company for its willingness to improve its conduct in the neighborhood,
- I heard the office of Paul Koretz is opposed to this plan and, I'm very disappointed,
- I call upon Mr. Koretz to review his stance on this matter and work with his constituents,

- I request the Zoning Administrator accept this plan so that the long overdue process to remedy this unhealthy situation can began as soon as possible,

Michael Salman – Representative

- At the beginning of the hearing, you indicated this is a controversial hearing,
- On November 19, 2019, the Chief Zoning Administrator ordered the holding of this review,
- The officers of NASE complained to her that the 2001 Settlement Agreement called for recurring 5-year review and that they were never held,
- She said the review is mandated by Clause B of the Settlement Agreement, approved by City Council,
- Clause B invoked Condition 78 of the 2001 ZA approval, an approval reached with a full environmental approval,
- Condition 78 says the Zoning Administrator shall evaluate the neighborhood impacts and the efficacy of the mitigation measures; the Zoning Administrator may impose corrective conditions if warranted,
- The title of Condition 78 is "Review of Conditions" not review of compliance,
- The efficacy of conditions set in conjunction with a full environmental impact report, under CEQA, is what is supposed to be going on,
- This should not be a review of compliance but a review of efficacy of conditions,
- Conditions whose efficacy has failed,
- The review is violating the Settlement Agreement and Condition 78 of the 2000 approval,
- Evaluating the efficacy of the conditions cannot be done outside of the CEQA process; giving this review a categorical exemption puts it outside the CEQA process,
- The Department of City Planning's application instructions (master application) Item No 4 says - The applicant must provide information regarding any intent to develop a larger project.
- On June 19, 2020, PCEC sent the Chief Zoning Administrator an email in which PCEC enumerated 25 projects that had been conducted at the site and executed since 2000 without review by the ZA,
- Including 24 major oil well operations, drilling new wells, re-drilling existing wells, and converting wells,
- 24 operations in which the LAMC says the Zoning Administrator must do a discretionary review and grant an approval before such operation can be conducted,
- Given the Department of City Planning's own application instructions, the application for this case needs be amended to include the 25 projects,
- The reason is under CEQA, if you have a larger project and you split it up, you segment or you piece meal it into smaller parts, that skews the full environmental impact,
- The State Supreme Court has called this piecemealing; since the 1970, it has repeatedly ruled it is illegal,
- PCEC is not doing the piece mealing; the Zoning Administrator is doing it to prevent the possibility of a proper environmental review that could see the scope of the entire project,
- The California Environmental Quality Act, dates back to 1970,
- It is the State of California landmark environmental protection legislation,
- CEQA has both procedure and substantive requirements, part of which the environmental review is supposed to inform decision makers and supposed to inform the public,

- So, the public has access to environmental information so that the public can be informed participants in public decision making,
- A CEQA clearance can't be done after the fact; an environmental review under CEQA has to be done early in the process so that it can inform the process,
- Final point concerns the Zoning Administrator's proposal, not the applicant, to use a categorial exemption,
- I would like to know why Mr. Irving keeps changing the class of the categorical exemption,
- There are no documents in the file about the categorical exemption,
- The only documents that have any notation about the environmental clearance is the hearing notice; it says Class 9 and Class 21 categorical exemption,
- At the July 9 hearing, Mr. Irving first said it was a Class 1 Categorical Exemption, then at the end of the hearing, he said it was a Class 21 Categorial Exemption,
- Mr. Irving reiterated it's a Class 21 Categorical Exemption.
- Class 21 is for enforcement, enforcement would mean referral for prosecution or revocation,
- This is not a revocation proceeding, which would be governed LAMC Section 12.27.1.
- Mr. Irving says it's a review of compliance; that's not covered by Class 21,
- Any categorical exemption is inappropriate because we are dealing with a review.
- Condition 78 of the 2000 approval says it is about the efficacy of mitigation measures that have transparently failed,
- These are mitigation measures that were set with an EIR back in the 2000 approval,
- And we are also dealing with 25 unapproved projects including 24 major well operations,
- Bringing this case forward with a categorical exemption is a travesty that violates state law.
- All of this has been brought to the attention of the Zoning Administrator, the City Attorney's Office and the Council Office by Amy Mateer, who is a lawyer retained by NASE (Neighbors for A Safe Environment),
- NASE is a locally based community environmental organization that won the settlement agreement in 2000,
- Ms. Mateer walks through this issue step by step; there is more going on that is illegal,
- We are looking at a smoldering pile of illegality on the part of the City,
- As Scott Silver said, an oil company has sat up straight and looked the situation square in the face, and has been honest about it and has come forward to do what the public has requested, but the City has refused to do it,
- Very last point, in 2001 Mike Feuer was Council Member of CD 5, and was the member who introduced the motion to approve the 2001 settlement agreement,
- In the 1995 review, when Mike Feuer was Councilmember elect, he wrote to the Zoning Administrator,
- Mr. Feuer said there needs to be independent monitoring of noise, odors and air quality; that's basically calling for inspections,
- In 1995, Mike Feuer knew inspections were needed because there were none,
- 1995 was 25 years ago; Mr. Feuer has been the City Attorney since 2013,
- Mr. Koretz has been the Council member since 2009; he was Councilmember when the 2010 review didn't happen; he was the Councilmember when the 2015 review didn't happen,
- These are not problems that are unknown to the city, nor unknown to Mr. Feuer or Mr. Koretz,

- The need for inspection of oil sites is well known and widely known,
- And it's not happening because the Zoning Administrator, the City Attorney and Council are refusing to do it,
- All of that is going on in this case in a smoldering radioactive pit of illegality by the City refusing to observe the CEQA, refusing to observe the City's own guidelines for implementing CEQA, refusing to observe the City's own municipal code.
- People should be shocked and outraged; remember everything that happens,

Rabi Yonah Bookstein – Pico Robertson Health and Safety Coalition Member

- I've lived and worked in Pico Robertson since 2009,
- I represent the Pico Robertson Health and Safety Coalition, a group of 85 concerned citizens,
- When the City approved the drilling of oil in the 1960s, it was generations ago,
- Los Angeles and science have progressed substantially in the last 70 years,
- Our group of 85 formed almost two years ago; we started because of our ongoing concerns including complaints by residents of odors,
- In addition, it was formed because people discovered that they were living next to an active oil well site,
- One of the affects building a 20-foot-high wall around the oil operations and around the processing site on the block west, was that many residents didn't know what they were living next to,
- We are very disturbed that our City Councilman, the City Council and the Zoning Administrator seem intent on blocking environmental protections,
- Recently, I listened to a state hearing on the future of oil drilling in the state,
- The oil industry lined up dozens of employees to speak on behalf of their positions,
- In this case, there was nobody to call in support of the continued operation of the site as things are going now; there is no support for things to continue,
- Everything we've heard today and at the previous hearing from the citizen groups, SORO Neighborhood Council, NASE, our organization, including the operator, thinks something has to change,
- Yet, that is not the position of the Zoning Administration Office because we are going on with the hearing,
- Studies have shown the potential negative affect of ongoing exposure to volatile organic compounds; these compounds have no smell and impossible to detect by your nose,
- We know the operation has been cited by the Los Angeles Fire Department for safety violations,
- We agree with the testimony from Mr. Silver, from the Rancho Park Citizenry and our dear Professor Michael Salman,
- It's shocking the City doesn't listen to these groups,
- The operators have major violations; we've known that; it's documented,
- Perhaps these occurred under previous ownership, but that does not mean they should be looked over,
- This review should be following the requirements of the 2001 Settlement Agreement and Condition 78 of the 2000 approval,
- We are supposed to be discussing the efficacy of mitigation measures and a comprehensive compliance inspection by the City Petroleum Administrator,
- We are familiar with the infamous desk inspection; but we actually need a real inspection before the review goes to hearing,
- This hearing shouldn't be happening; we should be having this hearing at another time,

- There needs to be an environmental review under CEQA; the categorial exemption that we are operating under for this hearing is incorrect and violating state law,
- Our group since the beginning has been advocating for immediate inspections,
- Followed by annual compliance inspections; we need 24-7 fence line monitoring with evidence that is recorded and available to the public,
- We need the 5-year review which was mandated by the settlement agreement,
- Mike Feuer was the Councilman for our district; the City Council, City Attorney and the Councilman should be on top of their game,
- If they are not going to look out for the citizenry, why are they in their office,
- It was pointed out that there are micro-turbines onsite; he did mention they are forbidden; while they may have been put at the production facility; it is still one site, it's not like it is a different site,
- The whole site operates under one permit that the City agreed to in the 1960s,
- You can't have a micro turbine on a site, anywhere on the location; it doesn't matter if it's near the oil well or the production facility,
- They were forbidden by the settlement agreement,
- If they are to be allowed, they have to be done in a way which ensures the safety of all involved,
- The annual monitoring of odors is necessary,
- The harmful chemical that are released when there are errors in the process,
- The operator pointed out that there were no phone calls of odor complaints,
- This is not evidence that there might not be problems,
- For example, my office is across the street from the oil well; I have been working from home during COVID and many other people; most of the businesses are closed down so there are not many people on the street to smell the odor,
- So that fact that there are no phone calls is really not evidence,
- When people do smell things, we instruct them to call South Coast Air Quality Management District,
- You really have to be a detective to find the phone number on the building; there are these small poorly lit signs on one of the doors,
- For all those reasons, I find it really insufficient to take in consideration that this site is not causing trouble,
- We are approaching the Jewish Holiday, Rosh Hashanah, the Jewish New Year,
- It's a day of introspection, coming to terms with the things we did wrong in the previous year; it's about repairing wrongs,
- What are we going to do going forward?
- We have to be true not only to City code, state law or to the will of the neighborhood, but we also have to be good before God,
- What are we doing going forward; we can fix the past mistakes, but we have to first acknowledge the past mistakes and we have to come to terms with those mistakes, and then come up with solutions to fix those mistakes,
- I find the operator is more interested in fixing and amending past wrongs than our City Councilman,

Jennifer Susich – Glenville Resident

- Thanks to everyone who has spoken this morning,
- Everyone that spoke early has illuminated the issues quite well,
- As someone who moved to the area in 2016 and has had numerous health issues, I'm very interested in what's going on at the site, and possible violations,
- I want to echo their calls for there to be environmental reviews, and for there to be more regulations and ongoing checks to make sure everything is done appropriately,

- I'm very concern as someone who lives in close proximity and that there are multiple schools in the area,
- It's very concerning and disturbing to know that there are so many violations.

Richard Wiener - NASE Member

- I'm one of the founders and member of the board of directors of NASE,
- NASE is party to the 2001 Settlement Agreement, which calls of the review of conditions under which the Pico drill site is operating, every 5 years,
- Review of compliance, and violations over the 5 years shows the necessity of review of conditions is appropriate and necessary,
- There was no hearing or approval of conditions in 2010 or 2015, and it is only because NASE demanded that this hearing is being held,
- It is totally inappropriate that the City and Zoning Administrator insist on a categorical exemption for an environmental review given the numerous violations of the law, but especially because PCEC has joined in the request with NASE for a review of these conditions,
- While the representative of the Councilman Koretz office join in the ZA 's intention to grant a categorical exemption, reiterate the Councilman Koretz intention to have a 2,500-foot setback for operation of the Pico site, knowing full well that baring a catastrophe occurrence, that is not remotely possible to have a 2,500 setback,
- NASE, through its attorney, notified the City of its intent to seek legal remedies if the City continues to refuse to address the numerous violations of CEQA, and the 2001 Settlement Agreement that it made with NASE,
- A categorical exemption in light of the numerous violations of the existing conditions, we maintain is a violation of CEQA and the Zoning Administrator should order a mitigated negative declaration,
- The new conditions should require 1) an annual compliance inspection for compliance with ZA conditions and City Code, 2) permanent 24-7 emissions monitoring with recorded data that is reported publicly to the city on a quarterly basis, 3) the recurring 5-year review of conditions as mandated by the 2001 Settlement Agreement,

Dr. Matthew Lafferman – Nearby Resident

- I'm a physician who lives within the vicinity of the oil well,
- The technical components of the situation are beyond me but as a physician, the potential health hazards are within my knowledge base,
- My experience and research have shown me that there are significant health hazards to being within the vicinity of oil wells on a prolong basis,
- Some of those negative effects include gastrointestinal side effects, headaches, nose bleeds, and cancer,
- Cancer has hit my own family; my wife was diagnosed with breast cancer at a young age; it was not hereditary breast cancer; there was no history of breast cancer in her family,
- She has been treated and she is alive now, eight or so years later,
- So, the question is what kind of data has been collected as far as the health effects of living close to oil wells,
- LA County Department of Health has done a report of the health effects and confirm some of these potentials and have certain recommendations as far as distance for living from oil wells,
- I wonder why the City hasn't followed up on these recommendations,
- LA County has one of the shortest setback regulations in the nation; in Dallas, the recommendation they follow is no residence within 1,500 feet,

- In Maryland, it's 1,000 feet from homes and schools,
- I just want to lend my voice as a physician,

Daniel Skolnick Council Deputy, Council District Koretz

- Oil and gas extractions are incompatible land use around homes, schools and houses of worship,
- This is an oil drilling site with an egregious record, and Council Koretz wants this public nuisance shutdown as quickly as possible, not regulated, not condition – shutdown,
- First, we must document and so we have this process, which is a Plan Approval to review the effectiveness of the applicant's compliance with conditions,
- There is no request for modification of any of the existing conditions and no proposed expansion of use,
- So, a reasonable person will tell you that in a review of conditions and inspections, there is no environmental impact,
- Let's not get into this delay tactic about having additional environmental review,
- Let's not allow for oil company advocates to mis-inform our community,
- The fact of the matter is we have this process; things need to be done completely, they need to be done correctly; they need to be done accurately without delay,
- My fellow community members, please understand that you are hearing a lot of bad information,
- There is a terrible bad actor in your community that is harming your health,
- We need to complete this process without delay about EIRs; what is the environmental impact of an inspection?
- We will find out what is happening at this site and that is not an environmental impact; that is knowing the truth.

CORRESPONDENCE

April 17, 2019	The Department of Conservation, Division of Oil, Gas and Geothermal Resources (DOGGR) reported that on November 28 and 29, its engineers witnessed tests of the safety systems and conducted an environmental lease inspection of wells and facilities at the Pacific Coast Energy Company. The tested safety systems responded as designed; no violation was observed during the lease inspections.
February 21, 2020	In two letters, the South Robertson Neighborhood Council made an "urgent" request that the City Council pass an ordinance to require annual general compliance inspections and 24/7 emissions monitoring at oi drill sites without further delay. The Neighborhood Council also requested the West Pico Drill Site to undergo a comprehensive compliance inspection by the Petroleum Administrator with the inspection report to be released before the Zoning Administrator holds a public hearing in the upcoming ZA Review Compliance.
May 25, 2020	In the letter, the writer expresses "grave" concern about the process through which the upcoming Review of Compliance and Conditions at the West Pico Drill Site seems to be heading toward

	Public Hearing without first having the Petroleum Administrator conduct or lead a comprehensive compliance inspection of the drill site.
June 5, 2020	Michael Salman expressed "grave and urgent" concern that the Review of Compliance of the West Pico Drill site was being unduly rushed in a way that will poorly serve everyone – the public, the operating oil company, the City and the Planning Department. The writer argues the Petroleum Administrator should first perform a comprehensive compliance inspection of the drill site before conducting a public hearing.
June 19, 2020	Michael Finch, PCEC representative, shared that the company was recently contacted by a member from the public and several issues and outstanding questions were brought their attention, including (1) whether the wells that have been drilled, re-drilled, and/or converted since the 2000 ZA approval required further approval under LAMC Section 13.01-H and13.01-I; (2) whether activities such as drilling, re-drilling and/or converting wells underwent adequate CEQA review as part of the EIR process for the 2000 approval; and (3) whether Condition #1 of the 1965 ZA 17683 and Condition #B 49 of the 2000 ZAD 17683 need to be modified to reflect that onsite generation of power is occurring on the production site.
June 24, 2020	Michael Salman shared that the applicant and he have identified exactly the same list of projects that require retroactive review. We have also had substantial conversation about solutions to other outstanding issues and problems. He expressed confidence that a consensus or near consensus solution is readily within reach and that getting to those solutions requires a full and proper review of the 25 unapproved projects.
July 5, 2020	Dr. Rae Drazin, a party to the 2001 Settlement Agreement and has been living within 5 blocks of the oil drilling site since 1974, wrote "[i]t's quite amazing that the non-compliance issues are still with us, even as the owners of the Site have changed. I am concerned with ongoing odors and the lack of 24/7 monitoring and overall compliance and sincerely hope that finally in 2020 the neighborhood, especially the children, will be protected from potential environmental hazards caused by this facility."
July 5, 2020	Richard S. Weiner, a founder and current officer of NASE, a party to the 2001 Settlement Agreement. Almost 20 years later the neighborhood has yet to realize the minimal environmental protections we assumed the Settlement Agreement provided. We believe it is necessary to have annual inspections and 24/7 monitoring of the Pico site."

July 7, 2020 — Charlie Carnow expressed concerns about the compliance issues and odors from the drill site which is located next to multiple schools, houses of worship and our homes. He expressed concerns about the lack of environmental review under CEQA. He urged the requirement of an annual compliance inspection and 24/7 emissions monitoring of the site to protect the public health and safety as had been done for other projects.

July 8, 2020 — Pacific Coast Energy Company (PCEC) shared its continuous work with the stakeholders and the City regarding efforts to address issues of community concern and to implement measures that will improve the overall safety and compliance of the West Pico facility. PCEC expressed a commitment to work with the City on appropriate conditions of approval to address the following:

1. The three items outlined in the June 19, 2020 email.
2. Annual inspections of the site operations by the Petroleum Administrator and/or a qualified third party approved by the Petroleum Administrator,
3. Evaluation of the feasibility of installing a fenceline emissions monitoring system using commercially available equipment that provides continuous monitoring and data recording.

July 8, 2020 — Michael Salman pointed out that there are two big categories of compliance problems: Non-compliance by the operator and Non-Compliance, including and encompassing violations of procedure and failures to perform administrative duties, including but not limited to duties under CEQA, by the City.

August 24, 2020 — Chatten-Brown, Carstens & Minteer, LLP, attorneys for Neighbors for a Safe Environment (NASE), sought to address the ongoing and emerging legal violations at the West Pico Drill Site that have led to a failure to provide protections to the community surrounding the subject drill site.

September 1, 2020 — Maia Lefferman (via ActionNetwork) provided a petition signed by 142 people expressing strong concern regarding the health and safety risk posed by oil and gas drilling and production in our neighborhood. The petition calls on the Zoning Administrator and local City Council Representative to require: 1) Full and proper environmental review as required by CEQA, 2) Annual Compliance Inspections, 3) Permanent 24/7 Emissions Monitoring with recorded data that is reported publicly, and 4) that the City obey its own laws and obey state laws in order to protect the health, safety and the environment,

September 11, 2020 — Council Member Paul Koretz sent a letter to the constituents of Council District 5 expressing his support for the advocacy of the stakeholders in the community, and his desire to achieve the same

goals as the stakeholders. The letter expressed his continued involvement with the oil drilling site.

September 28, 2020 In an email to Planning Staff, Michael Finch requested a meeting with the Planning Staff, the City Attorney, and the Chief Zoning Administrator to consider a new application vs amending the existing application, elimination of existing conditions, addition of new conditions, conditions related to the entire drill site, and other project changes needed to address community concerns.

March 24, 2021 Chatten-Brown, Carstens & Minteer LLP submitted a PRA Request R006330-120320 for West Pico Drill site; retention of Oil Permitting Records; and Permit Inspection Fees. The PRA Request was addressed to the City of Los Angeles Office of Finance, and the Los Angeles Fire Chief and Fire Marshal.

April 22, 2021 Michael Salman submitted an email that included multiple sets of LAFD Annual Oil Well Operating Permits for the individual oil wells at the West Pico Drill site, dating back to 2000, along with a spreadsheet listing over 900 individual permits. It was claimed that 22 of the permits were illegal, invalid, or void for years. It was also stated that there is a circle of negligence because the Zoning Administrator and the Fire Department do not check prior records, prior approvals or permits when considering their actions.

STAFF REVIEW OF COMPLIANCE WITH CONDITIONS

After listening to public testimony and after a thorough review of the material submitted to the public record, it was concluded that the operator failed to comply with a condition of the 2001 Settlement Agreement, and two conditions of the Zoning Administrator's grant. It was also concluded that the operator completed numerous projects on the drill site which were not authorized as part of the modernization of the drill site or the municipal code. Finally, it was learned that the operator performed projects on the adjacent production site without authorization, including the installation of the micro-turbines.

2001 Settlement Agreement Condition

Clause 4.b: On June 8, 2001, the City of Los Angeles, the operator and concerned parties entered into an agreement where all parties mutually agreed to thirteen clauses in order to settle the litigation filed challenging the EIR certified in connection with the drill site modernization approval, *Neighbors for A Safe Environmental v. City of Los Angeles*, LASC Case No. BC240760. Pursuant to clause 4.b of the 2001 agreement, the operator is required to file a Plan Approval for compliance review on each five-year anniversary of the latest review. The latest review was completed March 13, 2006, in which case, the operator was required to file a Pan Approval in 2011 and failed to do so. The operator did not file the 2020 Plan Approval application until after the failure was pointed out by this Office.

The ZA hereby determines that the operator is now fully in compliance with this condition as result of the 2020 filing. The operator is instructed to that it must

comply with the Settlement Agreement moving forward, and submit a Plan Approval application every five years, starting from 5 years after this determination becomes final.

ZA-1989-17683 Conditions

On March 13, 2006, the Zoning Administrator as required by Condition No. 78 under Case Nos. BZA 2000-1697 and ZA -17683(PAD) determined "that the conditions of approval have been and are being complied with, that the operation of the facility poses no ongoing health risk, that necessary inspections of the facility by government agencies will continue and that further hearings of formal review by the Zoning Administrator are not indicated." The operator continues to comply with a substantial number of the conditions of approval; however, the operator failed to show compliance with Condition Nos. 36, 39, 49 and 72 at the time the application was submitted. The operator has since provided evidence of compliance with two of the four conditions.

36. **Spill Prevention Plan. The applicant shall at all times maintain an oil spill prevention control and countermeasure plan in conformance with applicable law. A copy of the Spill Prevention Plan shall be given to the Zoning Administrator for placement in the file.**

    Condition No. 36. The operator submitted a 2016 copy of the Spill Prevention Plan to demonstrate compliance with Condition No 36, which indicates the operator has had such a plan.

    The ZA hereby determines that the operator is now fully in compliance with this condition.

39. **Noise Monitoring. The applicant shall install a 24-hour noise and video monitoring system substantially as follows.**
    a) The noise monitoring system shall utilize the following:
    1) **The installation of an outdoor, calibrated microphone on the north portion of the drill site (on side of nearest residences).**
    2) **The installation of a decibel meter and connected personal computer in the new support building.**
    3) **The personal computer will be programmed to record sound decibel measurements on a 24-hour basis.**
    4) **If feasible, the system will include an automatic paging system attached to the computer which will automatically page the applicant's on-duty supervisor if the noise monitor records reading over a preset warning level.**
    5) **The applicant's on-duty supervisor will immediately investigate any noise problems and take appropriate action. The supervisor shall prepare a written report on each such incident.**
    6) **During the first 24 month of operation of the modernized drill site, the applicant will print out and send to the Zoning Administrator a monthly report of all recorded noises above the preset level together with all investigation reports for the period; afterward, the applicant shall provide such reports to the Zoning Administrator on a quarterly basis.**

7) **The system will be designed and installed, and the preset warning levels will be determined, by a qualified, independent noise consulting firm agreed upon by the Zoning Administrator and the applicant. The preset warning values will be determined during the first several weeks of operation based upon actual site conditions.**

b) **The video monitoring system shall utilize the following components or features:**
   1) **The installation of multiple video cameras on the walls of the drill site providing video coverage at various locations within the drill site and just outside of the drill site walls, including, but not limited to· the alley along the north of the site, the derrick structure, and. the support building. To avoid privacy concerns, the videotape system shall not record sound nor videotape any locations which are not owned by the applicant or are public.**
   2) **The installation of a video recorder in the support building, which will videotape the camera images and the time of the recording.**
   3) **The videotape will be used to help determine the origin and cause of any noise issues, in conjunction with the noise monitoring system. The videotapes will be available to the noise consultant and the Zoning Administrator, upon request. Videotapes shall be maintained by the applicant for at least 60 days.**

Condition No. 39: The operator admitted it was not in full compliance with Condition No. 39. The noise monitoring system has been installed, functioning properly and sending alerts to PCEC personnel. These noise alerts have been monitored and reviewed to determine if the noise exceedances were attributed to the facility. However, the operator failed to provide quarterly noise reports to this Office. The operator requests "clarification" as what noise exceedances require reporting since much of the activity is unrelated to the facility.

The Zoning Administrator hereby determines the operation is not in compliance with the condition and instructs the operator to submit to the record those monitoring reports that include activities which exceed the ambient noises within 60 days of the date this determination becomes final. The monitoring report is to cover the 36-month period prior to the submittal of this Plan Approval application.

The Zoning Administrator expects that the operator will comply with this condition going forward. If the operator wishes to formally request a change to the condition so that it specifically requires the reporting of noise attributed to the oil drilling operation only, the operator must submit an application for a Plan Approval with the appropriate fee to formally request this change.

49. **All Electric Power. All drilling and reworking operations at the site shall at all times be carried on only by electrical power and such power shall not be generated on the controlled drilling site or in the district.**

Condition No. 49: The operator indicated the drill (oil and extraction) site is electronically powered by the Department of Water and Power (DWP) through a

3,500-KVA transformer in the Support Building on the drill site; the production site's electrical power source (micro-turbines) is not used by the drill site.

The ZA hereby determines that the operator is now fully in compliance with this condition as it relates to the drill site.

With regard to the production facility site which is not part of this review, the ZA instructs the operator to file a separate Plan Approval application within 90 days to obtain the authorization for the installation of the micro-turbines on the production facility site, which were installed without the approval of the Zoning Administrator.

72. **Limitations On Well Redrilling. Without prior written approval from the Zoning Administrator, no more than the existing 69 wells may be drilled, operated or maintained at the site and these wells shall be located at their current surface locations. All wells will be drilled from existing well cellars using existing strings of pipe or surface conductor pipe. In the event that applicant redrills any of the existing wells, the applicant shall provide the Zoning Administrators office with duplicate copies of all filings pertaining to such well filed with the California Division of Oil, Gas and Geothermal Resources, including such filings showing the bottom-hole location and the total depth of each such well. Furthermore, the applicant, upon request by the Zoning Administrator, shall furnish such additional information concerning the status, exact bottom hole location, productivity, etc., of the various wells drilled from the property, as to enable the Zoning Administrator to properly and intelligently administer the oil drilling regulations in this area; said information to be either verbal or in writing and to be kept confidential by the Zoning Administrator if so desired by the applicant.**

Condition No. 72: The operator has stated that "since the beginning of the modernization project a total of 59 wells have been drilled. One has been abandoned leaving a total of 58 wells at the site." Testimony was also provided that two wells have been had been drilled, there have been some re-drills and some conversions of wells since 2000.

As stated "the applicant shall provide the Zoning Administrators office with duplicate copies of all filings pertaining to such well[s] filed with the California Division of Oil, Gas and Geothermal Resources, including such filings showing the bottom-hole location and the total depth of each such well." The Zoning Administrator's office is not in receipt such of filings and hereby determines the operation is not in compliance with the condition. The operator is instructed to submit copies of all past permits allowing drilling and redrilling of wells within 60 days of the date this determination is final.

Municipal Code Provisions

LAMC Section 13.01-H states "[any] person desiring to drill, deepen or maintain an oil well in an oil drilling district that has been established by ordinance, or to drill or deepen and subsequently maintain an oil well in the M3 Zone within 500 feet of a more restrictive zone shall file an application in the Planning Department, requesting a determination of the conditions under which the operation may be conducted."

LAMC Section 13.01-I states "[no] person shall drill, deepen or maintain an oil well or convert an oil well from one class to the other and no permits shall be issued for that use, until a determination has been made by the Zoning Administrator or Area Planning Commission pursuant to the procedure prescribed in Subsection H of this section."

Testimony and evidence were provided that the operator completed a number of projects involving the drilling and re-drilling of wells on the drill site without approvals from the Zoning Administrator. While DOGGR records were provided relative to the drill/redrill work competed for two wells (West Pico 58 and West Pico 59), the operator acknowledged that a number of drilling and re-drilling projects were completed without specific written Zoning Administrator approval because it was believed that Condition No. 72 allowed for such projects. Also, the Planning Department's case tracking system has no record of any planning application filed seeking permission for drilling or redrilling work.

While Condition No. 72 may have allowed additional drilling or re-drilling, it also required the applicant "provide the Zoning Administrator's office with duplicate copies of all filings pertaining to such well filed with the California Department of Oil, Gas and Geothermal Resources, including such filings showing the bottom-hole location and the total depth of each such well." Copies of such documents were not submitted to the Office of Zoning Administration. The Zoning Administrator instructs the operator to submit copies of the filings, made to the California Department of Oil, Gas and Geothermal Resources, to the Office of Zoning administration within 60 days of the date this determination become final.

DISCUSSION

The review of the whole of the case file indicates that the operator of the drill site has failed to maintain full compliance with all of the Zoning Administrator's conditions of approval of ZA-1989-17683(PAD)(PA1), the Los Angeles Municipal Code provisions applicable to oil drilling sites and permits; and the 2001 Settlement agreement.

Additional testimony was provided that the operator completed projects on the adjoining production site. The installation of micro-turbines on the production portion of the controlled drilling site was performed without any authorization from the Zoning Administrator. LAMC Section 13.01 F.26 requires "[that] all power operations other than drilling in said district shall at all times be carried on only by means of electrical power, which power shall not be generated on the drilling site." The operator installed the micro-turbines on the production portion of the controlled drilling site in violation of the municipal code.

An awareness of the effects that urban oil drilling and production operations have on communities has grown since the facility was first granted an approval to be established as a controlled drill site, and particularly over the last several years since the West Pico Oil Drill site was given authorization to modernize. The technology used for oil and gas extraction and production has advanced significantly over the years, and the measures to protect communities have advanced as well. A review and evaluation of the applicant's Plan Approval request has led to research of the industry's best practices and technological advancements, for example using micro-turbines to generate electricity on site, rather than burden local public resources, or the use of real time reporting of drilling

activities, are generally good practices.

Based on the review of the public records, a site visit and the testimony from the public about noise, odor, truck traffic, and other evidence submitted to the record, it is hereby determined that the current conditions of approval imposed on the whole of the drill site may not be completely adequate to preserve the health, safety and general welfare of the nearby residential neighborhood. The Zoning Administrator notes that the production facility was approved over 50 years ago and there has never been a review of the conditions of approval to determine their effectiveness. The drill site, on the other hand, has had two reviews since the modernization project was completed.

Based upon the foregoing, the Zoning Administrator believes that additional conditions, or required corrective measures may need to be taken, as he has found, after actual observations or experience with drilling one or more of the wells in the district that additional conditions are necessary to afford greater protection to surrounding property, considering the whole of the drill site, including the drilling portion and the production portion, pursuant to LAMC 13.01-E.2(i).

Testimony was provided regarding the production site, focusing on projects and activities occurring on said site without authorization. As part of this review, the Zoning Administrator learned that the production site operates, in part pursuant to all conditions of approval for the drill site as outlined in Case No. ZA-17683. As the Plan Approval herein is limited to determining the effectiveness of the conditions of approval related to the modernization of the drill site only, the Zoning Administrator will review the effectiveness of the conditions of approval for the production facility site operation outlined in Case No. ZA-18893 with the operator's application for Plan Approval, pursuant to LAMC Section 12.24 M, to obtain authorization for the installation of the micro-turbines on its production facility site.

ADDITIONAL DISCUSSIONS:

As an unmodified, continued operation of an existing drill site and related compliance review, the Proposed Project qualifies for exemption from the California Environmental Quality Act (CEQA) pursuant to State CEQA Guidelines, Article 19, Sections 15301 (Class 1) and 15321 (Class 21).

Section 15301; Class 1 consists of the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of existing or former use. The key consideration is whether the project involves negligible or no expansion of use.

The proposed project is a required Plan Approval, pursuant to a 2001 Settlement Agreement that mandates periodic compliance review of conditions imposed on the continued operation of an existing drill site that was modernized. The proposed project qualifies for the Class 1 exemption because (1) the review of conditions applies to the continued operation of the existing West Pico Oil Drill Site and (2) no expansion of the existing drill site's use, pursuant to LAMC Section 13.01 has been requested. The

proposed project will not result in a change the number of wells as the capacity of the oil and gas extraction facility will remain the same.

Section 15321; Class 21 Category 2: Consists of Actions by regulatory agencies to enforce or revoke a lease, permit, license, certificate, or other entitlement for use issued, adopted, or prescribed by the regulatory agency or enforcement of law, general rule, standard, or objective, administered or adopted by the regulatory agency. This includes the adoption of an administrative decision or order enforcing or revoking the lease, permit, license, certificate, or entitlement for use or enforcing the general rule, standard, or objective.

The proposed project qualifies for the Class 21 exemption because it involves a Plan Approval to review the applicant's compliance with and effectiveness of the conditions imposed under Case Nos. BZA-2000-1697 and ZA-17683(PAD). The proposed project would permit the continued operation of the drill site subject to the existing conditions and corrective conditions if warranted. The regulatory action would not result in any impacts on the environment.

CEQA Section 15300.2: Exceptions to the Use of Categorical Exemptions.

The City has considered whether the Proposed Project is subject any of the six (6) exceptions that would prohibit the use of a categorical exemption as set forth in State CEQA Guidelines Section 15300.2. The six (6) exceptions to this Exemption are: (a) Location; (b) Cumulative Impacts; (c) Significant Effect; (d) Scenic Highways; (e) Hazardous Waste Sites; and (f) Historical Resources.

1. Location. *Classes 3, 4, 5, 6, and 11 are qualified by consideration of where the project is to be located – a project that is ordinarily insignificant in its impact on the environment may in a particularly sensitive environment be significant. Therefore, these classes are considered to apply in all instances, except where the project may impact on an environmental resource of hazardous or critical concern where designated, precisely mapped, and officially adopted pursuant to law by federal, state, or local agencies.*

The proposed project is not relying on Exemption Classes 3, 4, 5, 6, or 11 and is thusly not subject to this exception.

2. Cumulative Impacts. *All exemptions for these classes are inapplicable when the cumulative impact of successive projects of the same type in the same place, over time is significant.*

According to the California Department of Conservation (CalGEM) Well Finder database, the closest oil drilling facility is located near the intersection of Pico Boulevard and Avenue of the Stars, in Rancho Park, approximately 0.9 miles away from the project site. As such, there are no known successive projects of the same type and in the same place as the proposed project. The Plan Approval review of conditions of approval compliance and the subsequent reporting involves no changes of the existing baseline conditions as the resulting review will not change the number of wells or the production activities. Therefore, this exception does not apply.

3. Significant Effect. *A categorical exemption shall not be used for an activity where there is a reasonable possibility that the activity will have a significant effect on the environment due to unusual circumstances.*

The proposed project is a required Plan Approval, pursuant to a 2001 Settlement Agreement that mandates periodic compliance review of conditions imposed on the continued operation of an existing drill site that was authorized for modernization. A Plan Approval, that reviews the effectiveness of the conditions of approval of an operating oil well site, is not an activity that typically involves unusual circumstances that will lead to a significant effect on the environment. The proposed Plan Approval review is no different as the request seeks to review compliance or non-compliance the conditions of approval that were imposed in connection with Case Nos. BZA 2000-1997 and ZA-17683(PAD). No request has been made to modify any condition which will result in a significant impact on the immediate environment.

The project site will remain enclosed on all sides with 25-foot-high walls, except for the two parking lot areas. Trees and plants will continue to line the exterior of the walls. Adjoining properties to the north of the project site will remain zoned R3-1VL-O and developed with two-story apartment buildings. Properties to the south across Pico Boulevard will remain zoned C4-1VL-O and developed with low-rise commercial buildings occupied by a variety of commercial and religious uses. Adjoining properties to the east across Doheny Drive will remain zoned C4-1VL-O and include a gas station and other commercial uses. Properties to the west of the subject site across Oakhurst Drive will remain zoned C4-1VL-O and developed with an oil processing site operated by the applicant. The existing drill site's operation remains bound by all prior conditions of approval and regulatory requirements from the Southern California Air Quality Management District (SCAQMD). Therefore, the baseline conditions will remain unchanged and there are no foreseeable impacts from the project. Thus, there are no unusual circumstances and no reasonable possibility that the project and on site activities will lead to a significant effect on the environment, and this exception does not apply.

4. Scenic Highways. *A categorical exemption shall not be used for a project which may result in damage to scenic resources, including but not limited to, trees, historic buildings, rock outcroppings, or similar resources, within a highway officially designated as a state scenic highway.*

The only State Scenic Highway within the City of Los Angeles is the Topanga Canyon State Scenic Highway, State Route 27, which travels through a portion of Topanga State Park. The project site is approximately 10 miles east of State Route 27. Therefore, the proposed project will not result in any damage to any scenic resources, including but not limited to, trees, historic buildings, rock outcroppings, or similar resources, within a highway officially designated as a state scenic highway, and this exception does not apply.

5. Hazardous Waste. *A categorical exemption shall not be used for a project located on a site which is included on any list complied pursuant to Section 65962.5 of the Government Code.*

According to Envirostor, the State of California's database of Hazardous Waste Sites, neither the project site, nor any site in the vicinity, is identified as a hazardous waste site, and this exception does not apply.

6. Historic Resources. *A categorical exemption shall not be used for a project which may cause a substantial adverse change in the significance of a historical resource.*

The project site has been identified as a potential historic resource in Survey LA the citywide survey of Los Angeles, but not designated as such; and the proposed project is a required Plan Approval, pursuant to a 2001 Settlement Agreement that mandates periodic compliance review of conditions imposed on the continued operation of an existing drill site that was authorized for modernization. The proposed project proposes no changes to the physical or operational components of the oil drill facility, and based on this, the proposed project will not result in any substantial adverse change to the significance of a historic resource and this exception does not apply.

INDEMNIFICATION AND REIMBURSEMENT OF LITIGATION COSTS.

Applicant shall do all of the following:

i. Defend, indemnify and hold harmless the City from any and all actions against the City relating to or arising out of the City's processing and approval of this entitlement, including but not limited to, an action to attack, challenge, set aside, void or otherwise modify or annul the approval of the entitlement, the environmental review of the entitlement, or the approval of subsequent permit decisions or to claim personal property damage, including from inverse condemnation or any other constitutional claim.

ii. Reimburse the City for any and all costs incurred in defense of an action related to or arising out of the City's processing and approval of the entitlement, including but not limited to payment of all court costs and attorney's fees, costs of any judgments or awards against the City (including an award of attorney's fees), damages and/or settlement costs.

iii. Submit an initial deposit for the City's litigation costs to the City within 10 days' notice of the City tendering defense to the Applicant and requesting a deposit. The initial deposit shall be in an amount set by the City Attorney's Office, in its sole discretion, based on the nature and scope of action, but in no event shall the initial deposit be less than $50,000. The City's failure to notice or collect the deposit does not relieve the Applicant from responsibility to reimburse the City pursuant to the requirement in paragraph (ii).

iv. Submit supplemental deposits upon notice by the City. Supplemental deposits may be required in an increased amount from the initial deposit if found necessary by the City to protect the City's interests. The City's failure to notice or collect the deposit does not relieve the Applicant from responsibility to reimburse the City pursuant to the requirement (ii).

v. If the City determines it necessary to protect the City's interests, execute an indemnity and reimbursement agreement with the City under terms consistent with the requirements of this condition.

The City shall notify the applicant within a reasonable period of time of its receipt of any action and the City shall cooperate in the defense. If the City fails to notify the applicant of any claim, action or proceeding in a reasonable time, or if the City fails to reasonably cooperate in the defense, the applicant shall not thereafter be responsible to defend, indemnify or hold harmless the City.

The City shall have the sole right to choose its counsel, including the City Attorney's office or outside counsel. At its sole discretion, the City may participate at its own expense in the defense of any action, but such participation shall not relieve the applicant of any obligation imposed by this condition. In the event the Applicant fails to comply with this condition, in whole or in part, the City may withdraw its defense of the action, void its approval of the entitlement, or take any other action. The City retains the right to make all decisions with respect to its representations in any legal proceeding, including its inherent right to abandon or settle litigation.

For purposes of this condition, the following definitions apply:

"City" shall be defined to include the City, its agents, officers, boards, commission, committees, employees and volunteers.

"Action" shall be defined to include suits, proceedings (including those held under alternative dispute resolution procedures), claims or lawsuits. Actions includes actions, as defined herein, alleging failure to comply with any federal, state or local law.

Nothing in the definitions included in this paragraph are intended to limit the rights of the City or the obligations of the Applicant otherwise created by this condition.

APPEAL PERIOD - EFFECTIVE DATE

The applicant's attention is called to the fact that this determination is not a permit or license and that any permits and licenses required by law must be obtained from the proper public agency. The Zoning Administrator's determination in this matter will become effective after **June 17, 2021**, unless an appeal therefrom is filed with the City Planning Department. It is strongly advised that appeals be filed early during the appeal period and in person so that imperfections/incompleteness may be corrected before the appeal period expires. Any appeal must be filed on the prescribed forms, accompanied by the required fee, a copy of the Zoning Administrator's action, and received and receipted at a public office of the Department of City Planning on or before the above date or the appeal will not be accepted. **Forms are available on-line at http://planning.lacity.org**. Public offices are located at:

Figueroa Plaza	**Marvin Braude San Fernando Valley Constituent Service Center**	**West Los Angeles Development Services Center**
201 North Figueroa Street	6262 Van Nuys Blvd., Room 251	1828 Sawtelle Blvd., 2nd Floor
4th Floor	Van Nuys, CA 91401	West Los Angeles, CA 90025
Los Angeles, CA 90012	(818) 374-5050	(310) 231-2912
(213) 482-7077		

If you seek judicial review of any decision of the City pursuant to California Code of Civil Procedure Section 1094.5, the petition for writ of mandate pursuant to that section must be filed no later than the 90th day following the date on which the City's decision became final pursuant to California Code of Civil Procedure Section 1094.6. There may be other time limits which also affect your ability to seek judicial review.

Inquiries regarding this matter shall be directed to Dylan Sittig, City Planning Associate for the Department of City Planning at (213) 978-1197.

THEODORE L. IRVING, AICP
Associate Zoning Administrator

cc: Councilmember Paul Koretz
Fifth District
Adjoining Property Owners
Vincent P. Bertoni, Director, Los Angeles Department of City Planning
Erica Blythe, Acting Petroleum Administrator
Office of Petroleum and Natural Gas Administration and Safety
Amy Minteer, Esq., Counsel for NASE

ZA-1989-17683-PA2-1A

EXHIBIT C

Environmental
Clearance
ENV-2020-1328-CE

COUNTY CLERK'S USE

CITY OF LOS ANGELES
OFFICE OF THE CITY CLERK
200 NORTH SPRING STREET, ROOM 395
LOS ANGELES, CALIFORNIA 90012

CALIFORNIA ENVIRONMENTAL QUALITY ACT

NOTICE OF EXEMPTION

(PRC Section 21152; CEQA Guidelines Section 15062)

Filing of this form is optional. If filed, the form shall be filed with the County Clerk, 12400 E. Imperial Highway, Norwalk, CA 90650, pursuant to Public Resources Code Section 21152(b) and CEQA Guidelines Section 15062. Pursuant to Public Resources Code Section 21167 (d), the posting of this notice starts a 35-day statute of limitations on court challenges to reliance on an exemption for the project. Failure to file this notice as provided above, results in the statute of limitations being extended to 180 days.

PARENT CASE NUMBER(S) / REQUESTED ENTITLEMENTS
ZA-1989-17683-PA2 / Plan Approval

LEAD CITY AGENCY	CASE NUMBER
City of Los Angeles (Department of City Planning)	ENV-2020-1328-CE
PROJECT TITLE West Pico Oil Drill Site Plan Approval	COUNCIL DISTRICT 5

PROJECT LOCATION (Street Address and Cross Streets and/or Attached Map) ☐ Map attached.
9101 West Pico Boulevard (Pico Boulevard and Doheny Drive)

PROJECT DESCRIPTION: ☐ Additional page(s) attached.
A Plan Approval to review the effectiveness and Applicant's compliance with conditions imposed in Case Nos. BZA-2000-1697 and ZA-17683(PAD) for the existing 0.706 acre West Pico Oil Drill Site. There is no request for modification of any existing condition of approval and no proposed expansion of the use. This review is required by Paragraph 4.b of the June 2001 Settlement Agreement in the case of *Neighbors For A Safe Environment v. City of Los Angeles*, Los Angeles Superior Court Case No. BC240760, and will be conducted pursuant to Section 12.24-M of the Los Angeles Municipal Code and Condition No. 78 in Case Nos. BZA 2000-1697 and ZA 17683(PAD).

NAME OF APPLICANT / OWNER:
Phil Brown, Pacific Coast Energy Company

CONTACT PERSON (If different from Applicant/Owner above)	(AREA CODE) TELEPHONE NUMBER | EXT.
	(805) 937-2576

EXEMPT STATUS: (Check all boxes, and include all exemptions, that apply and provide relevant citations.)
STATE CEQA STATUTE & GUIDELINES

☐ STATUTORY EXEMPTION(S)
Public Resources Code Section(s) _____

☒ CATEGORICAL EXEMPTION(S) (State CEQA Guidelines Sec. 15301-15333 / Class 1-Class 33)
CEQA Guideline Section(s) / Class(es) **Section 15301 (Class 1) and Section 15321 (Class 21)**

☐ OTHER BASIS FOR EXEMPTION (E.g., CEQA Guidelines Section 15061(b)(3) or (b)(4) or Section 15378(b))

JUSTIFICATION FOR PROJECT EXEMPTION: ☒ Additional page(s) attached
Class 1 consists of the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of exiting public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of use beyond that existing at the time of the lead agency's determination.
Class 21 consists of Actions by regulatory agencies to enforce or revoke a lease, permit, license, certificate, or other entitlement for use issued, adopted, or prescribed by the regulatory agency or enforcement of law, general rule, standard, or objective, administered or adopted by the regulatory agency. This includes the adoption of an administrative decision or order enforcing or revoking the lease, permit, license, certificate, or entitlement for use or enforcing the general rule, standard, or objective.
☒ None of the exceptions in CEQA Guidelines Section 15300.2 to the categorical exemption(s) apply to the Project.
☐ The project is identified in one or more of the list of activities in the City of Los Angeles CEQA Guidelines as cited in the justification.

IF FILED BY APPLICANT, ATTACH CERTIFIED DOCUMENT ISSUED BY THE CITY PLANNING DEPARTMENT STATING THAT THE DEPARTMENT HAS FOUND THE PROJECT TO BE EXEMPT.
If different from the applicant, the identity of the person undertaking the project.

CITY STAFF USE ONLY:

CITY STAFF NAME AND SIGNATURE	STAFF TITLE
Dylan Sittig *Dylan Sittig*	City Planning Associate

ENTITLEMENTS APPROVED
Plan Approval

FEE:	RECEIPT NO.	REC'D. BY (DCP DSC STAFF NAME)
$6,450	0108160488	Edber Macedo

DISTRIBUTION: County Clerk, Agency Record Rev. 3-27-2019

ESTINEH MAILIAN
INTERIM CHIEF ZONING ADMINISTRATOR

ASSOCIATE ZONING ADMINISTRATORS
JACK CHIANG
HENRY CHU
JONATHAN A. HERSHEY, AICP
THEODORE L. IRVING, AICP
CHARLES J. RAUSCH JR.
CHRISTINA TOY LEE

CITY OF LOS ANGELES
CALIFORNIA

ERIC GARCETTI
MAYOR

EXECUTIVE OFFICES
200 N. SPRING STREET, ROOM 525
LOS ANGELES, CA 90012-4801
(213) 978-1271

VINCENT P. BERTONI, AICP
DIRECTOR

KEVIN J. KELLER, AICP
EXECUTIVE OFFICER

SHANA M.M. BONSTIN
DEPUTY DIRECTOR

ARTHI L. VARMA, AICP
DEPUTY DIRECTOR

LISA M. WEBBER, AICP
DEPUTY DIRECTOR

JUSTIFICATION FOR PROJECT EXEMPTION
CASE NO. ENV-2020-1328-CE

Project Description

The Proposed Project is for a Plan Approval to review the effectiveness of and Applicant's compliance with conditions imposed in Case Nos. BZA-2000-1697 and ZA-17683(PAD). The 0.706 acre West Pico Oil Drill Site is in the C4-1VL-O zone and within Urbanized Oil Drilling District No. U-131 established by Ordinance 130,340. There is no request for modification of any existing condition of approval and no proposed expansion of the use. This review is required by Paragraph 4.b of the June 2001 Settlement Agreement in the case of *Neighbors For A Safe Environment v. City of Los Angeles*, Los Angeles Superior Court Case No. BC240760, and will be conducted pursuant to Section 12.24-M of the Los Angeles Municipal Code and Condition No. 78 in Case Nos. BZA 2000-1697 and ZA 17683(PAD).

CEQA Determination - Applicable Categorical Exemption Categories:

As an unmodified, continued operation of an existing drill site and related compliance review, the Proposed Project qualifies for exemption from the California Environmental Quality Act (CEQA) pursuant to State CEQA Guidelines, Article 19, Sections 15301 (Class 1) and 15321 (Class 21).

Section 15301; Class 1 consists of the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of existing or former use. The key consideration is whether the project involves negligible or no expansion of use.

The proposed project is a required Plan Approval, pursuant to a 2001 Settlement Agreement that mandates periodic compliance review of conditions imposed on the continued operation of an existing drill site that was modernized. The proposed project qualifies for the Class 1 exemption because (1) the review of conditions applies to the continued operation of the existing West Pico Oil Drill Site and (2) no expansion of the existing drill site's use, pursuant to LAMC Section 13.01 has been requested. The proposed project will not result in a change the number of wells as the capacity of the oil and gas extraction facility will remain the same.

Section 15321; Class 21 Category 2: Consists of Actions by regulatory agencies to enforce or revoke a lease, permit, license, certificate, or other entitlement for use issued, adopted, or prescribed by the regulatory agency or enforcement of law, general rule, standard, or objective, administered or adopted by the regulatory agency. This includes the adoption of an administrative decision or order enforcing or revoking the lease, permit, license, certificate, or entitlement for use or enforcing the general rule, standard, or objective.

The proposed project qualifies for the Class 21 exemption because it involves a Plan Approval to review the applicant's compliance with and effectiveness of the conditions imposed under Case Nos. BZA-2000-1697 and ZA-17683(PAD). The proposed project would permit the continued operation of the drill site subject to the existing conditions and corrective conditions if warranted. The regulatory action would not result in any impacts on the environment.

CEQA Section 15300.2: Exceptions to the Use of Categorical Exemptions.

The City has considered whether the Proposed Project is subject any of the six (6) exceptions that would prohibit the use of a categorical exemption as set forth in State CEQA Guidelines Section 15300.2. The six

(6) exceptions to this Exemption are: (a) Location; (b) Cumulative Impacts; (c) Significant Effect; (d) Scenic Highways; (e) Hazardous Waste Sites; and (f) Historical Resources.

1. Location. *Classes 3, 4, 5, 6, and 11 are qualified by consideration of where the project is to be located – a project that is ordinarily insignificant in its impact on the environment may in a particularly sensitive environment be significant. Therefore, these classes are considered to apply in all instances, except where the project may impact on an environmental resource of hazardous or critical concern where designated, precisely mapped, and officially adopted pursuant to law by federal, state, or local agencies.*

The proposed project is not relying on Exemption Classes 3, 4, 5, 6, or 11 and is thusly not subject to this exception.

2. Cumulative Impacts. *All exemptions for these classes are inapplicable when the cumulative impact of successive projects of the same type in the same place, over time is significant.*

According to the California Department of Conservation (CalGEM) Well Finder database, the closest oil drilling facility is located near the intersection of Pico Boulevard and Avenue of the Stars, in Rancho Park, approximately 0.9 miles away from the project site. As such, there are no known successive projects of the same type and in the same place as the proposed project. The Plan Approval review of conditions of approval compliance and the subsequent reporting involves no changes of the existing baseline conditions as the resulting review will not change the number of wells or the production activities. Therefore, this exception does not apply.

3. Significant Effect. *A categorical exemption shall not be used for an activity where there is a reasonable possibility that the activity will have a significant effect on the environment due to unusual circumstances.*

The proposed project is a required Plan Approval, pursuant to a 2001 Settlement Agreement that mandates periodic compliance review of conditions imposed on the continued operation of an existing drill site that was authorized for modernization. A Plan Approval, that reviews the effectiveness of the conditions of approval of an operating oil well site, is not an activity that typically involves unusual circumstances that will lead to a significant effect on the environment. The proposed Plan Approval review is no different as the request seeks to review compliance or non-compliance the conditions of approval that were imposed in connection with Case Nos. BZA 2000-1997 and ZA-17683(PAD). No request has been made to modify any condition which will result in a significant impact on the immediate environment.

The project site will remain enclosed on all sides with 25-foot-high walls, except for the two parking lot areas. Trees and plants will continue to line the exterior of the walls. Adjoining properties to the north of the project site will remain zoned R3-1VL-O and developed with two-story apartment buildings. Properties to the south across Pico Boulevard will remain zoned C4-1VL-O and developed with low-rise commercial buildings occupied by a variety of commercial and religious uses. Adjoining properties to the east across Doheny Drive will remain zoned C4-1VL-O and include a gas station and other commercial uses. Properties to the west of the subject site across Oakhurst Drive will remain zoned C4-1VL-O and developed with an oil processing site operated by the applicant. The existing drill site's operation remains bound by all prior conditions of approval and regulatory requirements from the Southern California Air Quality Management District (SCAQMD). Therefore, the baseline conditions will remain unchanged and there are no foreseeable impacts from the project. Thus, there are no unusual circumstances and no reasonable possibility that the project and on site activities will lead to a significant effect on the environment, and this exception does not apply.

4. Scenic Highways. *A categorical exemption shall not be used for a project which may result in damage to scenic resources, including but not limited to, trees, historic buildings, rock outcroppings, or similar resources, within a highway officially designated as a state scenic highway.*

The only State Scenic Highway within the City of Los Angeles is the Topanga Canyon State Scenic Highway, State Route 27, which travels through a portion of Topanga State Park. The project site is approximately 10 miles east of State Route 27. Therefore, the proposed project will not result in any damage to any scenic resources, including but not limited to, trees, historic buildings, rock outcroppings, or similar

resources, within a highway officially designated as a state scenic highway, and this exception does not apply.

5. Hazardous Waste. *A categorical exemption shall not be used for a project located on a site which is included on any list complied pursuant to Section 65962.5 of the Government Code.*

According to Envirostor, the State of California's database of Hazardous Waste Sites, neither the project site, nor any site in the vicinity, is identified as a hazardous waste site, and this exception does not apply.

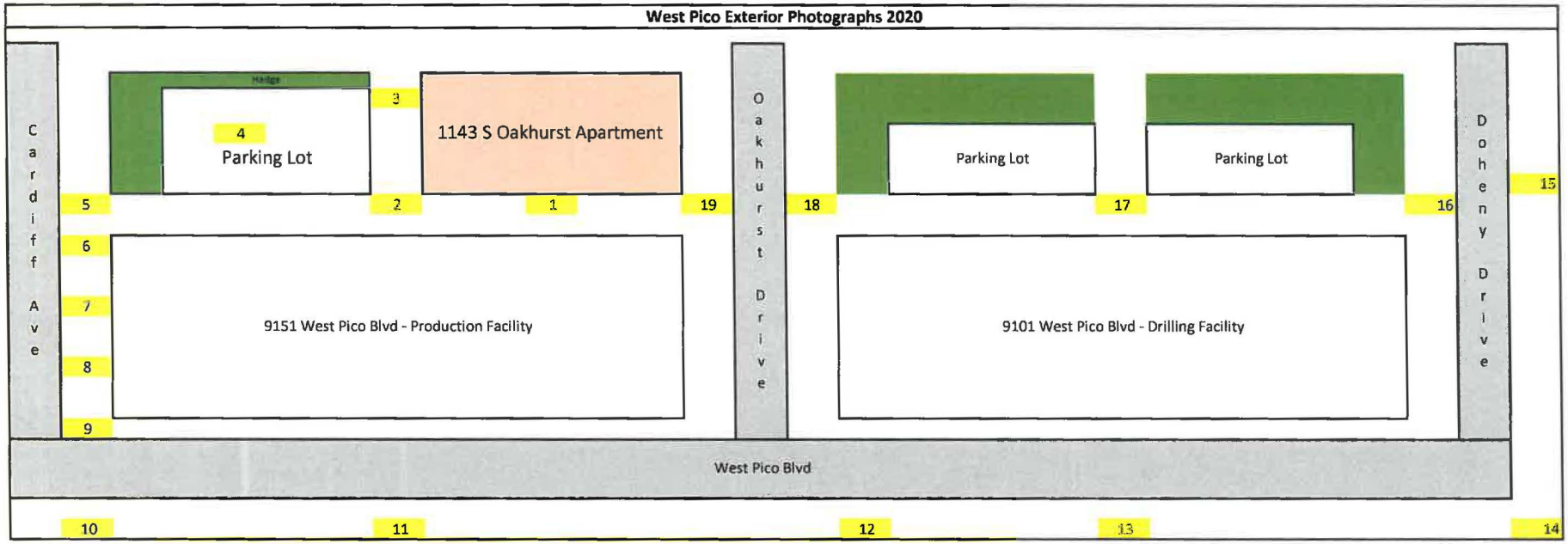
6. Historic Resources. *A categorical exemption shall not be used for a project which may cause a substantial adverse change in the significance of a historical resource.*

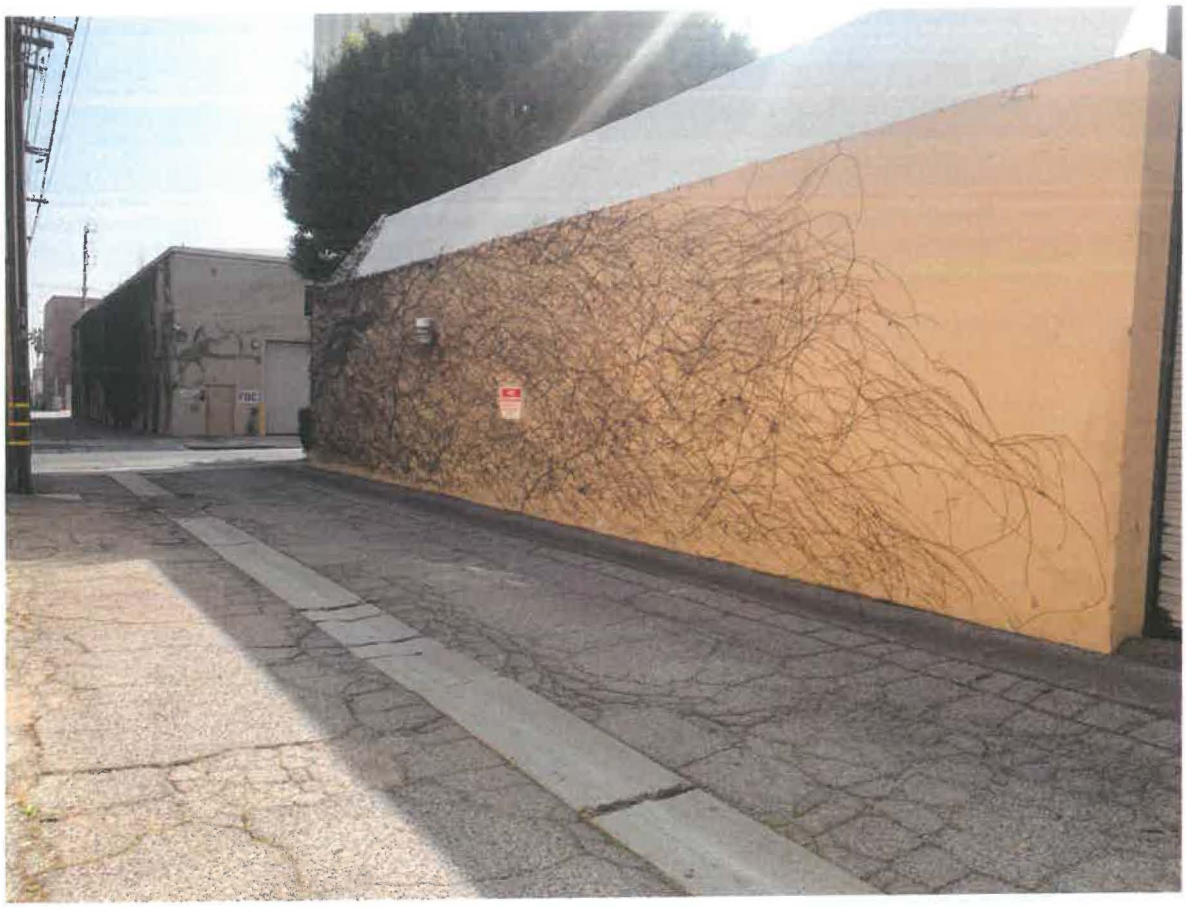
The project site has been identified as a potential historic resource in Survey LA the citywide survey of Los Angeles, but not designated as such; and the proposed project is a required Plan Approval, pursuant to a 2001 Settlement Agreement that mandates periodic compliance review of conditions imposed on the continued operation of an existing drill site that was authorized for modernization. The proposed project proposes no changes to the physical or operational components of the oil drill facility, and based on this, the proposed project will not result in any substantial adverse change to the significance of a historic resource and this exception does not apply.

ZA-1989-17683-PA2-1A

EXHIBIT D

Site Photos


West Pico Exterior Photographs 2020
Cardiff Ave
Hedge
4
Parking Lot
3
1143 S Oakhurst Apartment
Oakhurst Drive
Parking Lot
Parking Lot
Doheny Drive
15
5
2
1
19
18
17
16
6
7
8
9
9151 West Pico Blvd - Production Facility
9101 West Pico Blvd - Drilling Facility
West Pico Blvd
10
11
12
13
14



Position 1, Photo 1

Position 1, Photo 2

Position 1, Photo 3

Position 2, Photo 1

Position 2, Photo 2

Position 2, Photo 3

Position 2, Photo 4

Position 2, Photo 5

Position 3, Photo 1

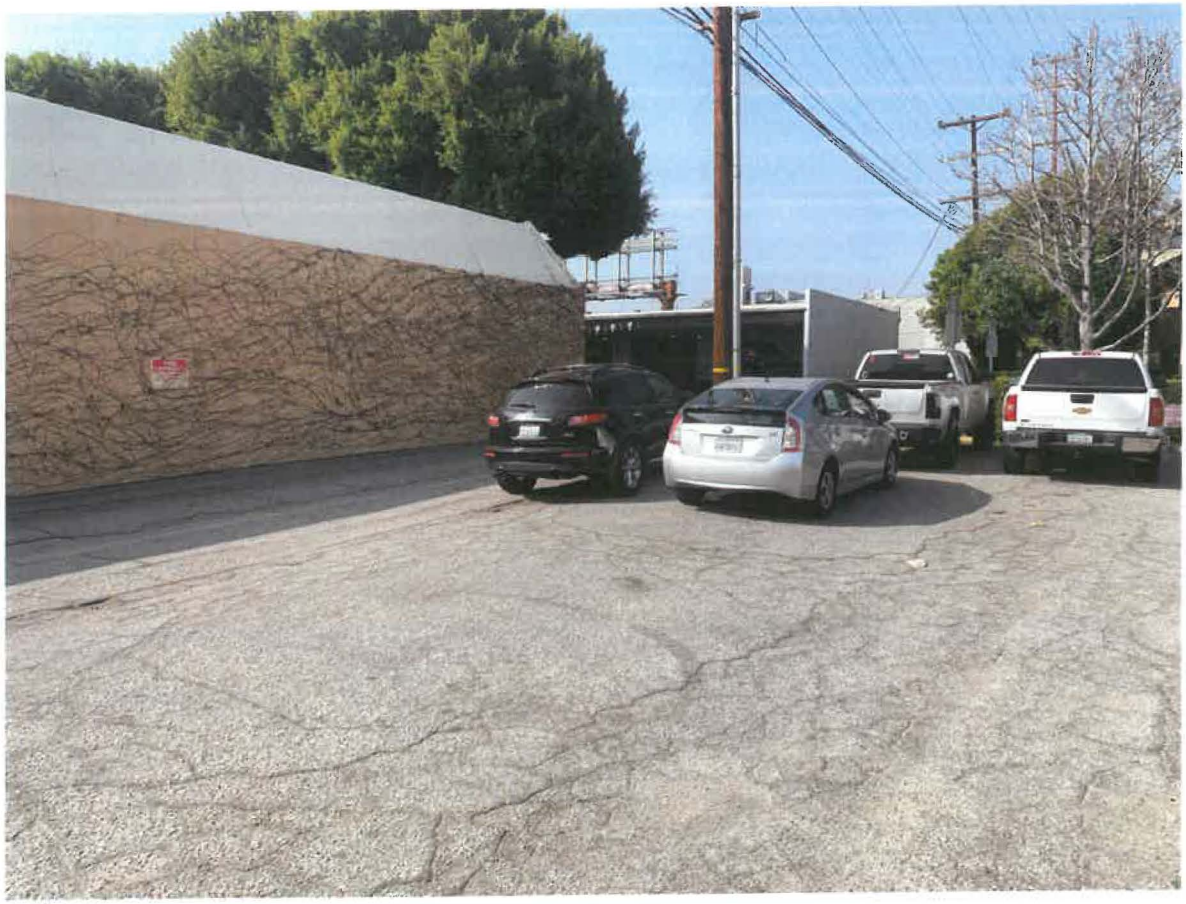
Position 3, Photo 2

Position 3, Photo 3

Position 3, Photo 4

Position 4, Photo 1

Position 4, Photo 2



Position 4, Photo 3

Position 5, Photo 1

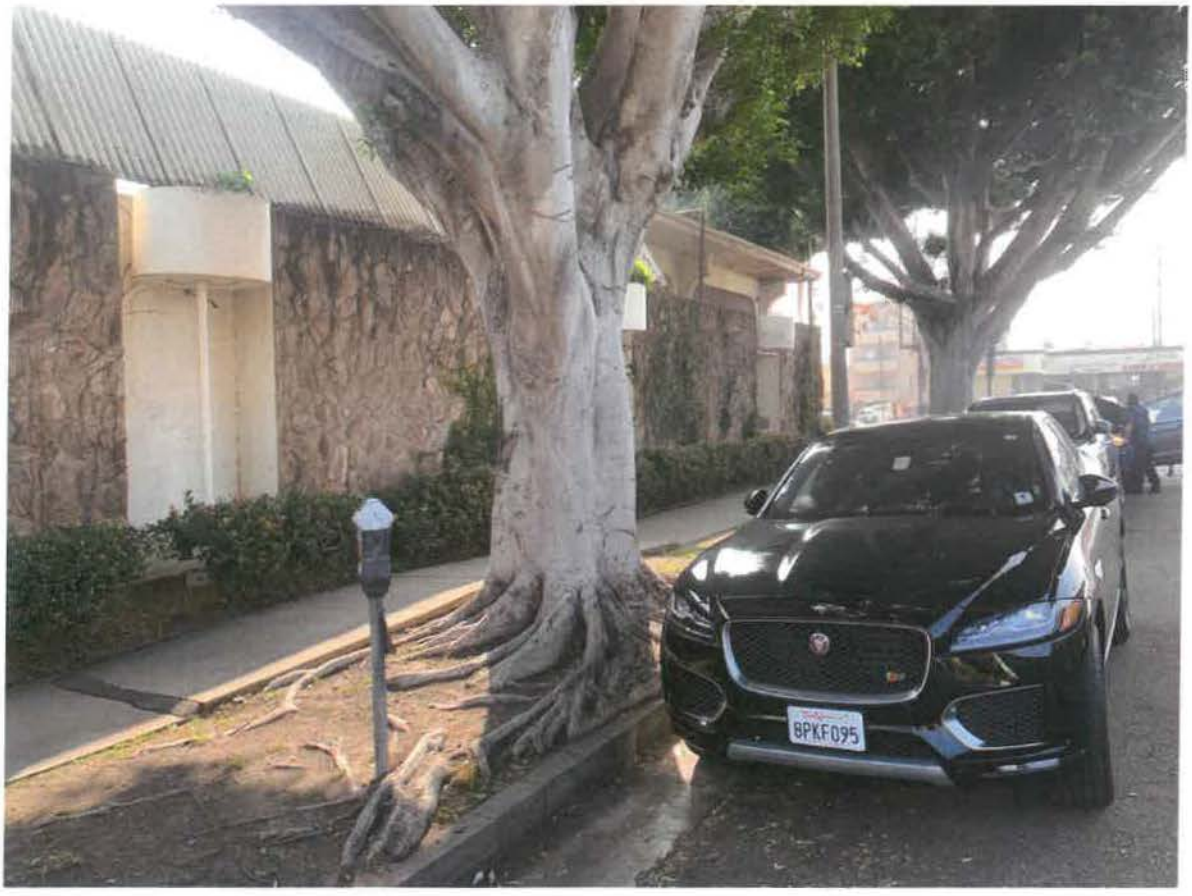
Position 5, Photo 2

Position 5, Photo 3

Position 5, Photo 4

Position 6, Photo 1

Position 6, Photo 2



Position 6, Photo 3

Position 7, Photo 1

Position 7, Photo 2

Position 7, Photo 3

Position 8, Photo 1

Position 9, Photo 1

Position 9, Photo 2

Position 10, Photo 1

Position 10, Photo 2

Position 10, Photo 3

Position 11, Photo 1

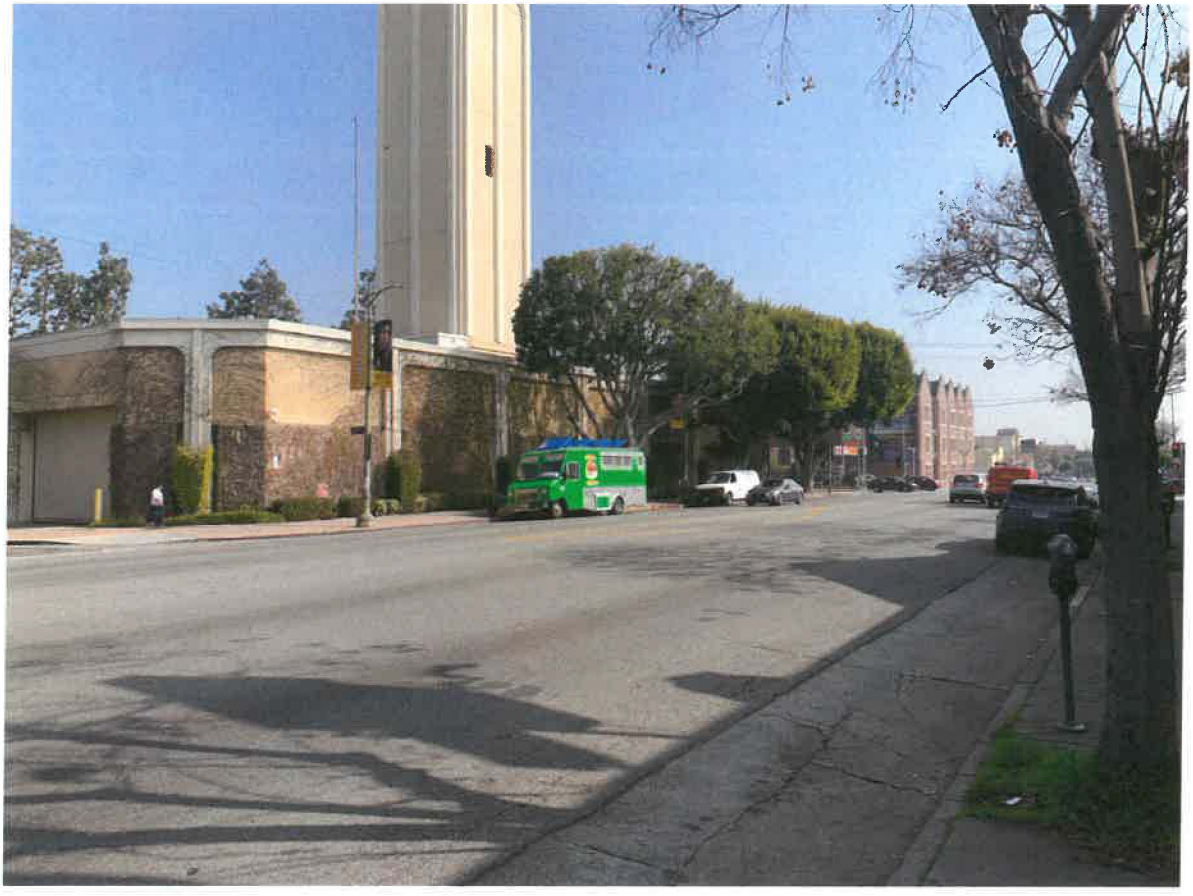
Position 11, Photo 2

Position 11, Photo 3

Position 12, Photo 1

Position 12, Photo 2

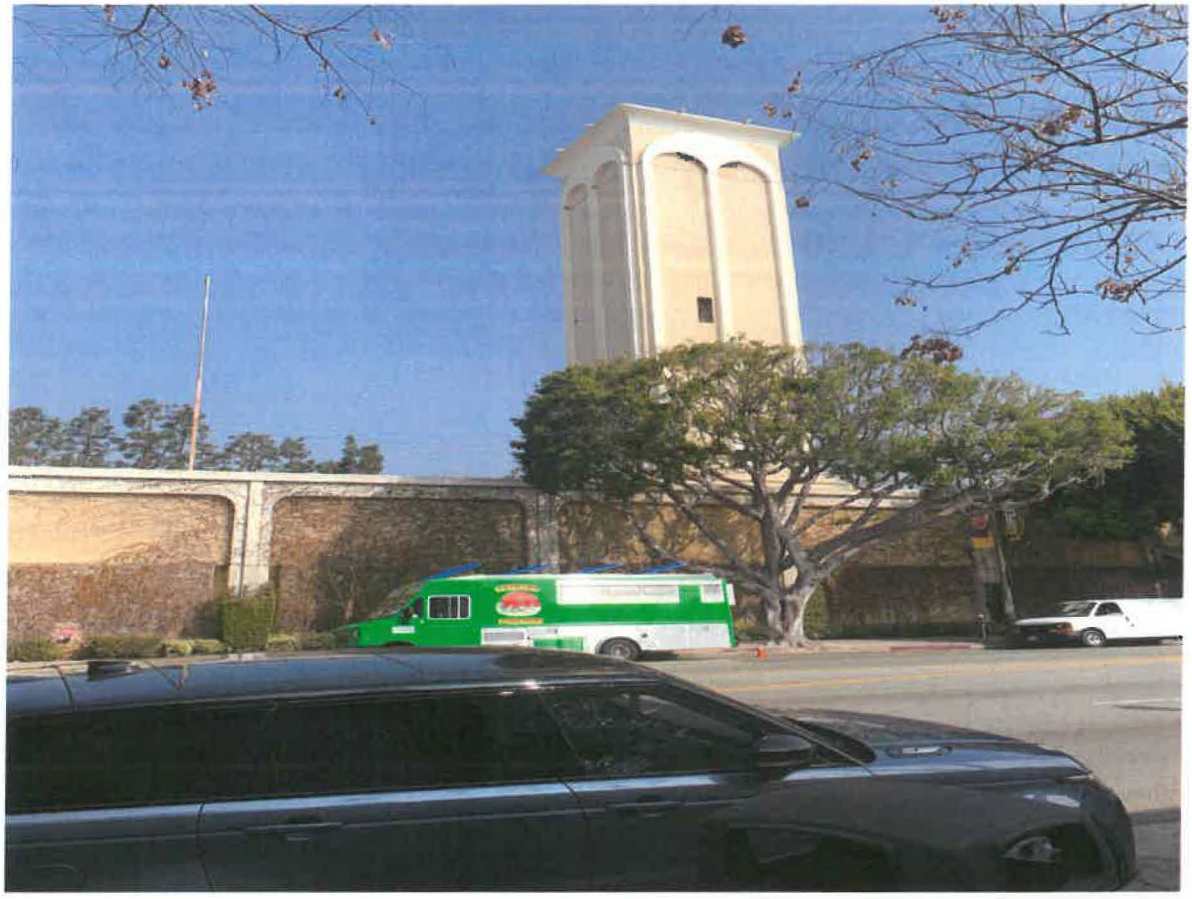
Position 12, Photo 3



Position 12, Photo 4

Position 13, Photo 1

Position 13, Photo 2



Position 13, Photo 3

Position 13, Photo 4

Position 13, Photo 5

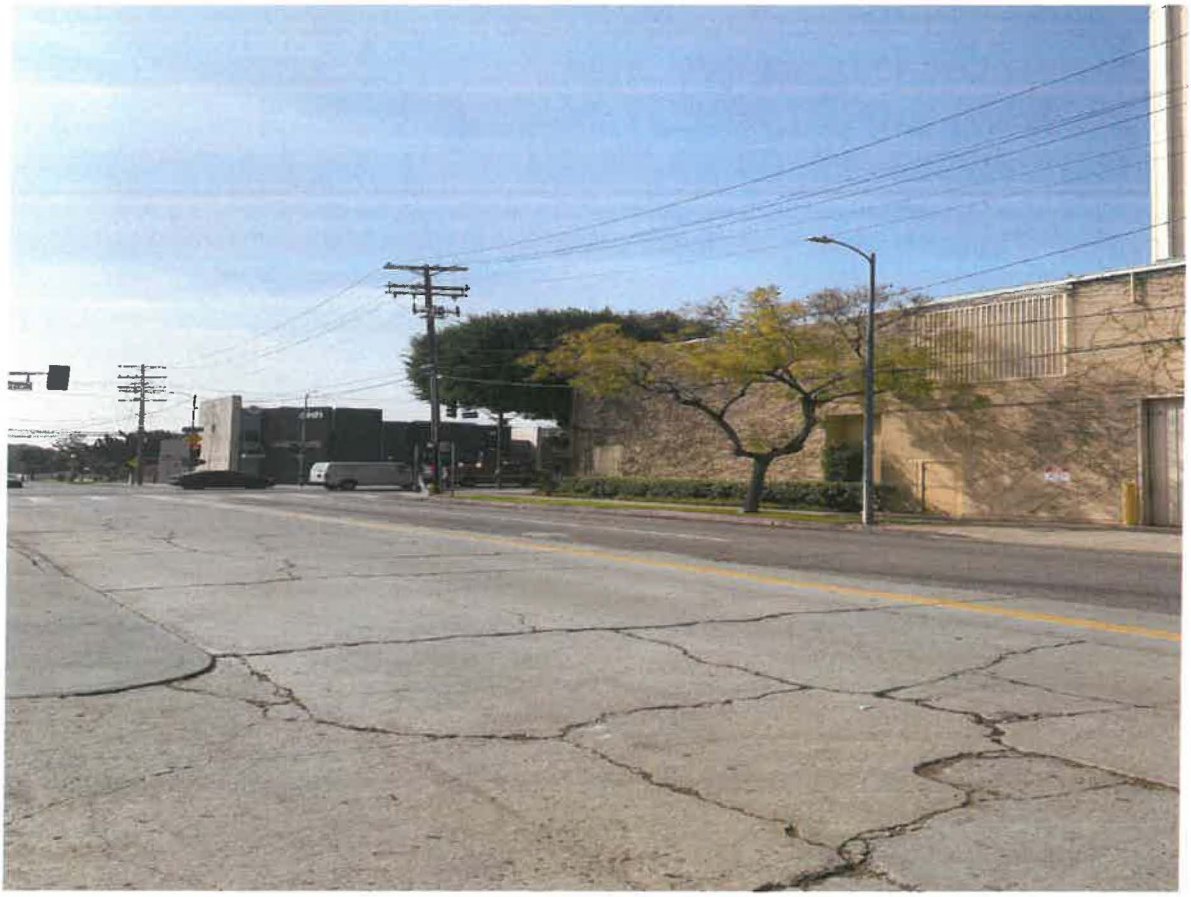
Position 14, Photo 1

Position 14, Photo 2

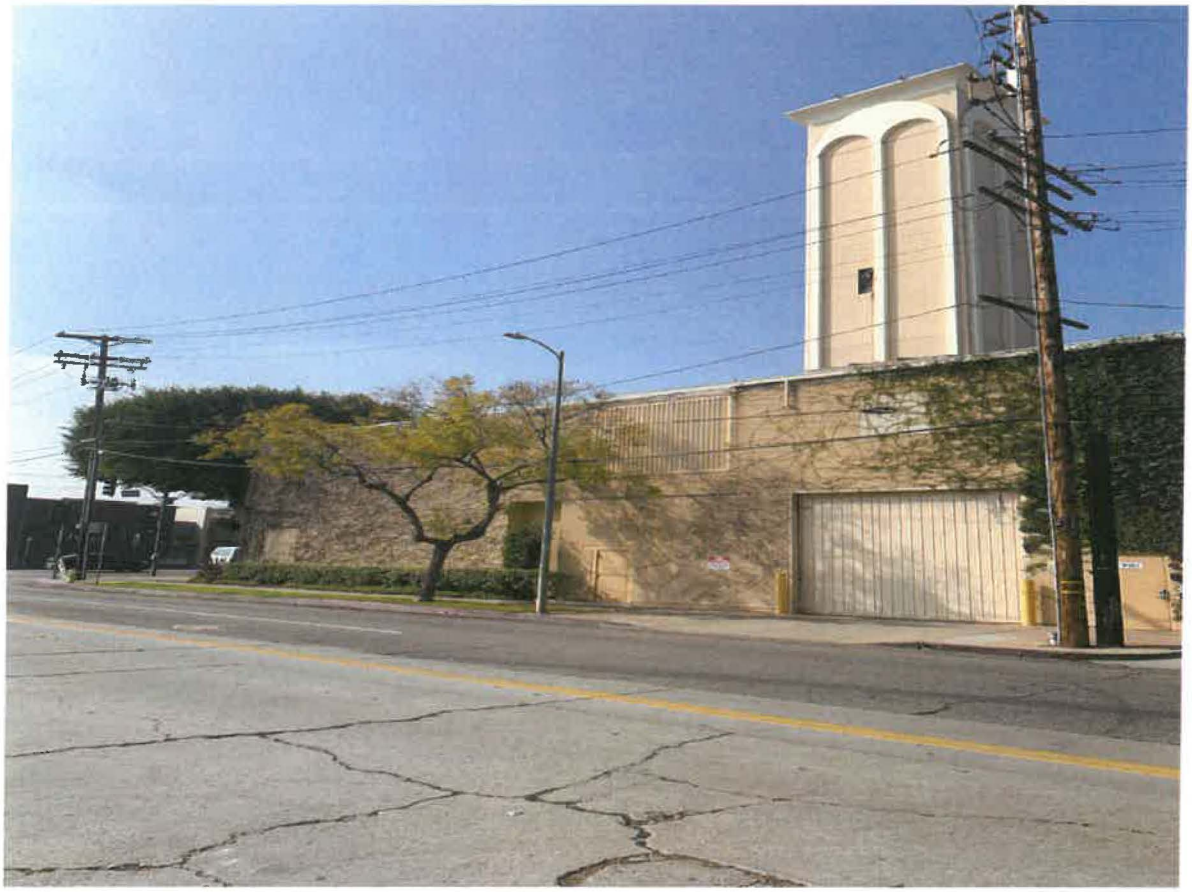
Position 14, Photo 3

Position 14, Photo 4

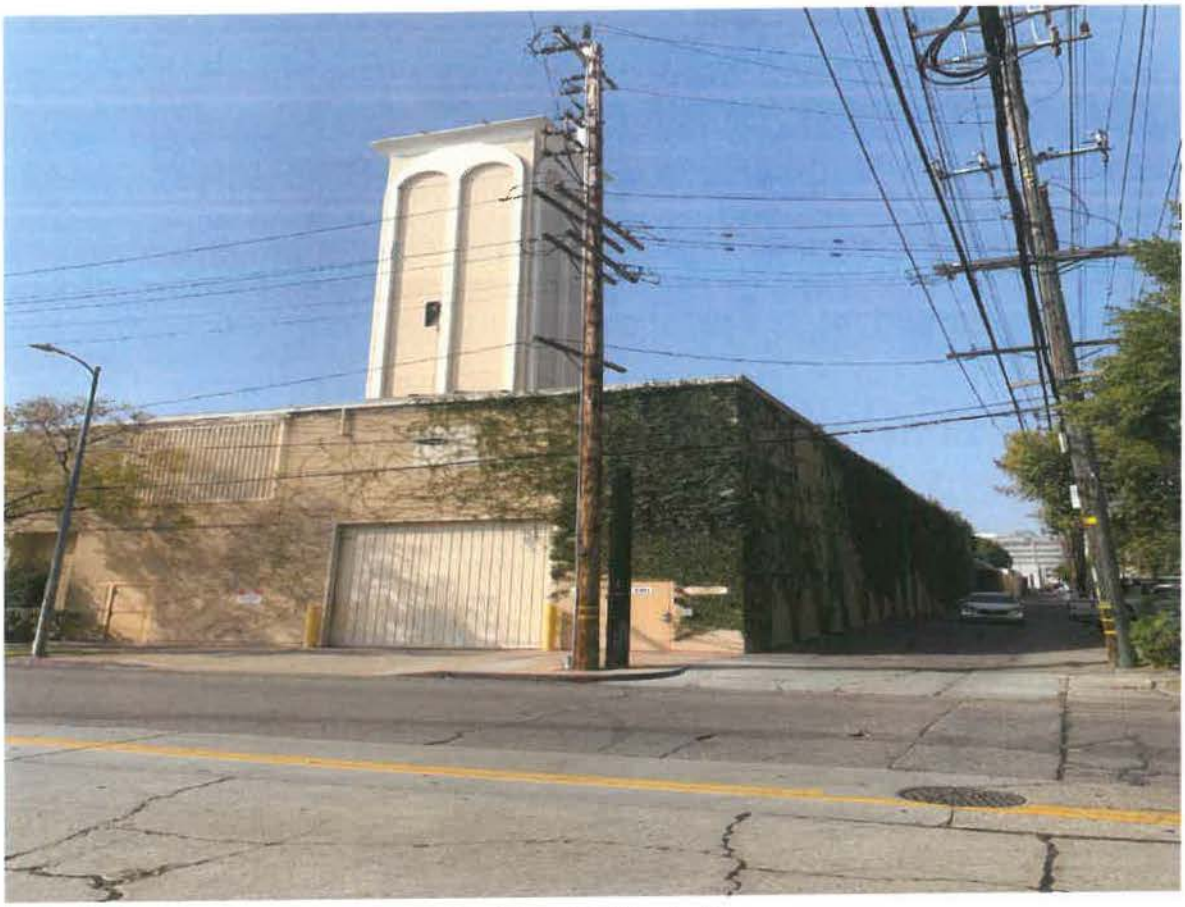
Position 14, Photo 5



Position 15, Photo 1

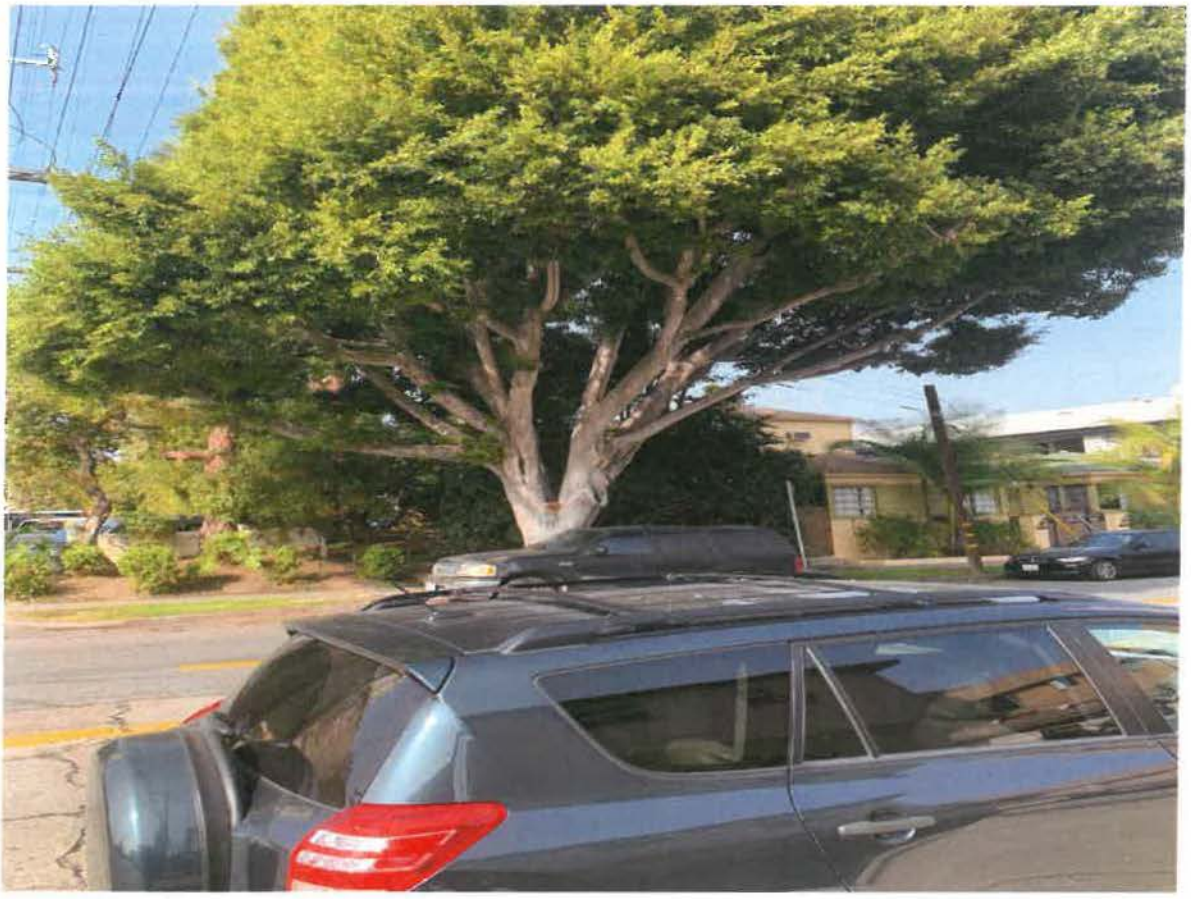


Position 15, Photo 2



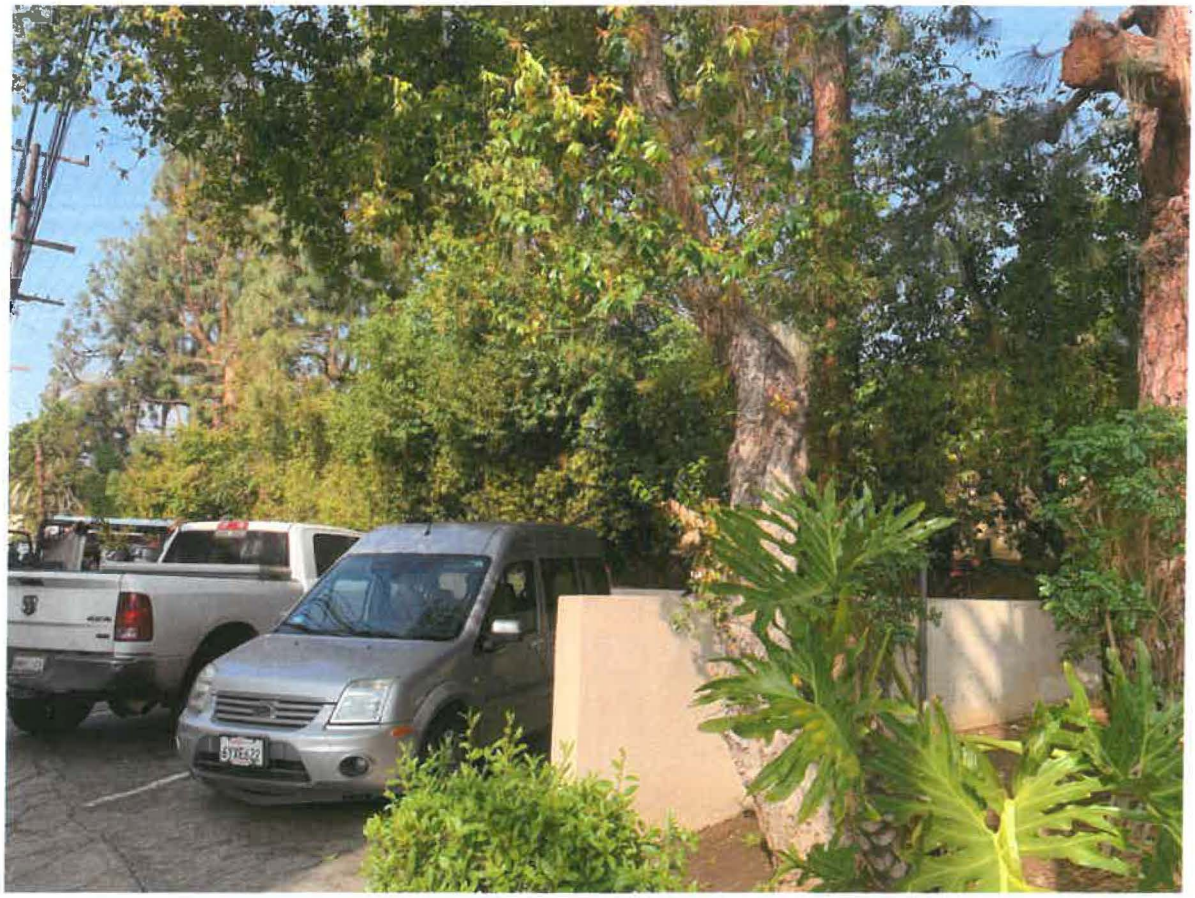
Position 15, Photo 3

Position 15, Photo 4



Position 15, Photo 5

Position 16, Photo 1

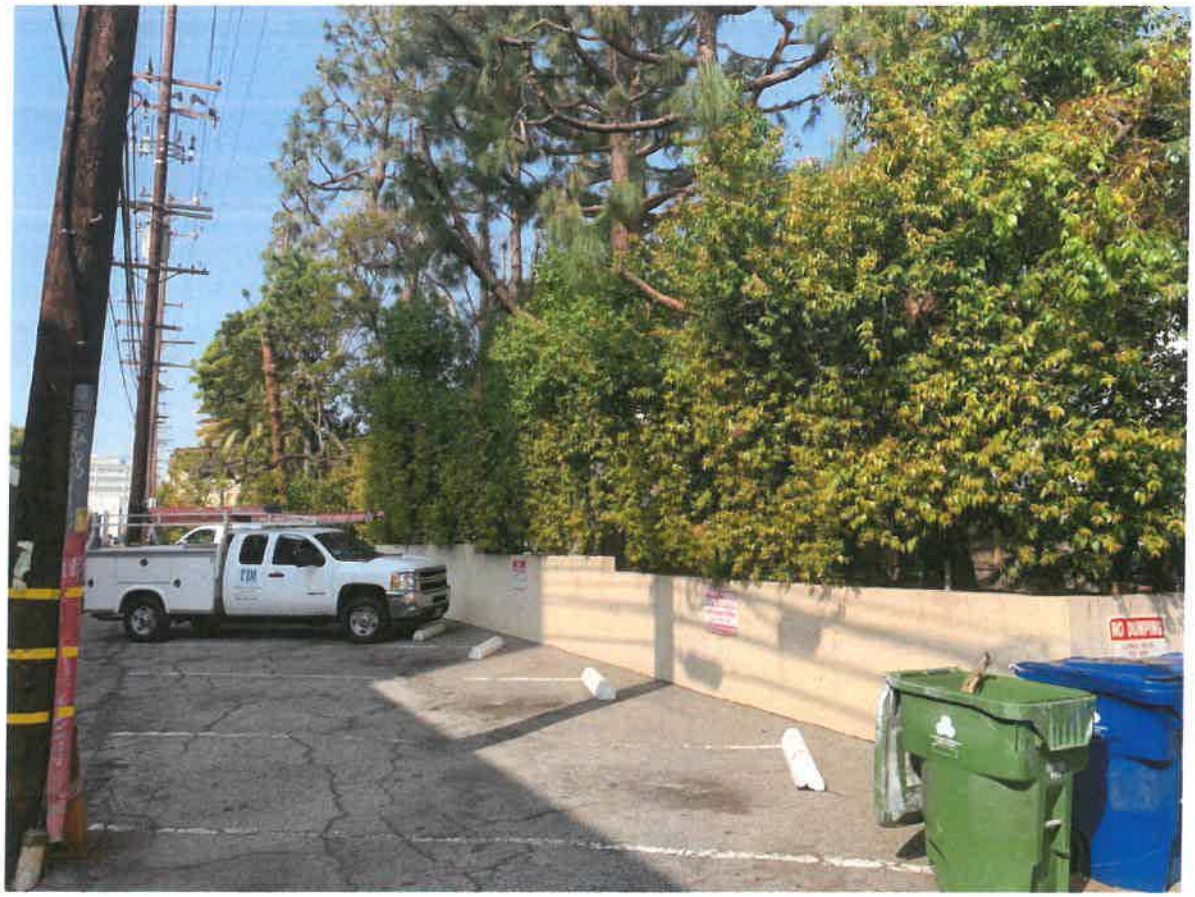


Position 16, Photo 2

Position 17, Photo 1

Position 17, Photo 2

Position 17, Photo 3



Position 17, Photo 4

Position 17, Photo 5

Position 17, Photo 6

Position 17, Photo 7

Position 18, Photo 1

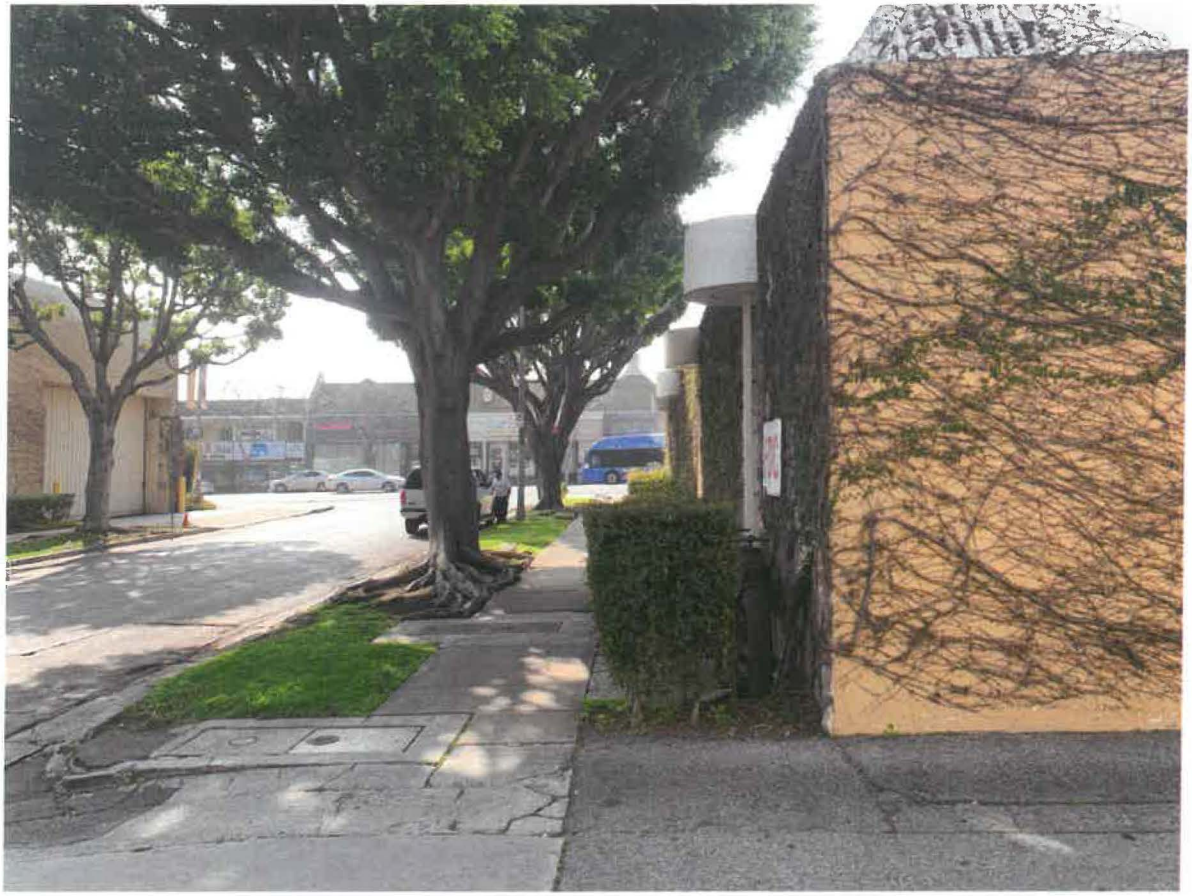
Position 18, Photo 2

Position 18, Photo 3

Position 19, Photo 1

Position 19, Photo 2

Position 19, Photo 3



Position 19, Photo 4

Position 19, Photo 5

ZA-1989-17683-PA2-1A

EXHIBIT E

Appeal Documents

APPLICATIONS:

APPEAL APPLICATION

Instructions and Checklist

Related Code Section: Refer to the City Planning case determination to identify the Zone Code section for the entitlement and the appeal procedure.

Purpose: This application is for the appeal of Department of City Planning determinations authorized by the Los Angeles Municipal Code (LAMC).

A. APPELLATE BODY/CASE INFORMATION

1. APPELLATE BODY

☒ Area Planning Commission ☐ City Planning Commission ☐ City Council ☐ Director of Planning
☐ Zoning Administrator

Regarding Case Number: ZA 1989-17683-PA2

Project Address: 9101 W. Pico Blvd.

Final Date to Appeal: June 17, 2021

2. APPELLANT

Appellant Identity: (check all that apply)
☐ Representative ☐ Property Owner
☐ Applicant ☐ Operator of the Use/Site

☒ Person, other than the Applicant, Owner or Operator claiming to be aggrieved
Paul Koretz, Councilmember, Fifth District

☐ Person affected by the determination made by the **Department of Building and Safety**

☐ Representative ☐ Owner ☐ Aggrieved Party
☐ Applicant ☐ Operator

3. APPELLANT INFORMATION

Appellant's Name: Paul Koretz, Councilmember,

Company/Organization: CDS

Mailing Address: 200 N. Spring St

City: Los Angeles State: CA Zip: 90012

Telephone: 213.473.7005 E-mail: Paul.Koretz@lacity.org

a. Is the appeal being filed on your behalf or on behalf of another party, organization or company?

☐ Self ☒ Other: CDS

b. Is the appeal being filed to support the original applicant's position? ☐ Yes ☒ No

4. REPRESENTATIVE/AGENT INFORMATION

Representative/Agent name (if applicable): Daniel Skolnik, Senior Planning Deputy

Company: Same as appellent

Mailing Address: _____

City: _____ State: _____. Zip: _____

Telephone: _____ E-mail: _____

5. JUSTIFICATION/REASON FOR APPEAL

a. Is the entire decision, or only parts of it being appealed? ☒ Entire ☐ Part

b. Are specific conditions of approval being appealed? ☐ Yes ☐ No

If Yes, list the condition number(s) here: _____

Attach a separate sheet providing your reasons for the appeal. Your reason must state:

- ☒ The reason for the appeal
- ☒ How you are aggrieved by the decision
- ☒ Specifically the points at issue
- ☒ Why you believe the decision-maker erred or abused their discretion

6. APPLICANT'S AFFIDAVIT

I certify that the statements contained in this application are complete and true:

Appellant Signature: Daniel Skolnik - Planning Deputy Date: 6/16/21

GENERAL APPEAL FILING REQUIREMENTS

B. *ALL CASES REQUIRE THE FOLLOWING ITEMS - SEE THE ADDITIONAL INSTRUCTIONS FOR SPECIFIC CASE TYPES*

1. Appeal Documents

a. Three (3) sets - The following documents are required for each appeal filed (1 original and 2 duplicates) Each case being appealed is required to provide three (3) sets of the listed documents.

- ☑ Appeal Application (form CP-7769)
- ☑ Justification/Reason for Appeal
- ☑ Copies of Original Determination Letter

b. Electronic Copy

☑ Provide an electronic copy of your appeal documents on a flash drive (planning staff will upload materials during filing and return the flash drive to you) or a CD (which will remain in the file). The following items must be saved as individual PDFs and labeled accordingly (e.g. "Appeal Form.pdf", "Justification/Reason Statement.pdf", or "Original Determination Letter.pdf" etc.). No file should exceed 9.8 MB in size.

c. Appeal Fee

- ☐ Original Applicant - A fee equal to 85% of the original application fee, provide a copy of the original application receipt(s) to calculate the fee per LAMC Section 19.01B 1.
- ☐ Aggrieved Party - The fee charged shall be in accordance with the LAMC Section 19.01B 1.

d. Notice Requirement

- ☐ Mailing List - All appeals require noticing per the applicable LAMC section(s). Original Applicants must provide noticing per the LAMC
- ☐ Mailing Fee - The appeal notice mailing fee is paid by the project applicant, payment is made to the City Planning's mailing contractor (BTC), a copy of the receipt must be submitted as proof of payment.

SPECIFIC CASE TYPES - APPEAL FILING INFORMATION

C. DENSITY BONUS / TRANSIT ORIENTED COMMUNITES (TOC)

1. **Density Bonus/TOC**
   Appeal procedures for Density Bonus/TOC per LAMC Section 12.22.A 25 (g) f.

NOTE:
- Density Bonus/TOC cases, only the *on menu or additional incentives* items can be appealed.

- Appeals of Density Bonus/TOC cases can only be filed by adjacent owners or tenants (must have documentation), and always only appealable to the Citywide Planning Commission.

  ☐ Provide documentation to confirm adjacent owner or tenant status, i.e., a lease agreement, rent receipt, utility bill, property tax bill, ZIMAS, drivers license, bill statement etc.

D. WAIVER OF DEDICATION AND OR IMPROVEMENT

Appeal procedure for Waiver of Dedication or Improvement per LAMC Section 12.37 I.

NOTE:
- Waivers for By-Right Projects, can only be appealed by the owner.

- When a Waiver is on appeal and is part of a master land use application request or subdivider's statement for a project, the applicant may appeal pursuant to the procedures that governs the entitlement.

E. TENTATIVE TRACT/VESTING

1. **Tentative Tract/Vesting** - Appeal procedure for Tentative Tract / Vesting application per LAMC Section 17.54 A.

   NOTE: Appeals to the City Council from a determination on a Tentative Tract (TT or VTT) by the Area or City Planning Commission must be filed within 10 days of the date of the written determination of said Commission.

   ☐ Provide a copy of the written determination letter from Commission.

F. BUILDING AND SAFETY DETERMINATION

☐ **1.** Appeal of the *Department of Building and Safety* determination, per LAMC 12.26 K 1, an appellant is considered the **Original Applicant** and must provide noticing and pay mailing fees.

a. Appeal Fee
- ☐ Original Applicant - The fee charged shall be in accordance with LAMC Section 19.01B 2, as stated in the Building and Safety determination letter, plus all surcharges. (the fee specified in Table 4-A, Section 98.0403.2 of the City of Los Angeles Building Code)

b. Notice Requirement
- ☐ Mailing Fee - The applicant must pay mailing fees to City Planning's mailing contractor (BTC) and submit a copy of receipt as proof of payment.

☐ **2.** Appeal of the *Director of City Planning* determination per LAMC Section 12.26 K 6, an applicant or any other aggrieved person may file an appeal, and is appealable to the Area Planning Commission or Citywide Planning Commission as noted in the determination.

a. Appeal Fee
- ☐ Original Applicant - The fee charged shall be in accordance with the LAMC Section 19.01 B 1 a.

b. Notice Requirement
- ☐ Mailing List - The appeal notification requirements per LAMC Section 12.26 K 7 apply.
- ☐ Mailing Fees - The appeal notice mailing fee is made to City Planning's mailing contractor (BTC), a copy of receipt must be submitted as proof of payment.

G. NUISANCE ABATEMENT

1. **Nuisance Abatement -** Appeal procedure for Nuisance Abatement per LAMC Section 12.27.1 C 4

NOTE:
- Nuisance Abatement is only appealable to the City Council.

a. Appeal Fee

☐ Aggrieved Party the fee charged shall be in accordance with the LAMC Section 19.01 B 1.

2. **Plan Approval/Compliance Review**
Appeal procedure for Nuisance Abatement Plan Approval/Compliance Review per LAMC Section 12.27.1 C 4.

a. Appeal Fee

☐ Compliance Review - The fee charged shall be in accordance with the LAMC Section 19.01 B.
☐ Modification - The fee shall be in accordance with the LAMC Section 19.01 B.

NOTES

A Certified Neighborhood Council (CNC) or a person identified as a member of a CNC or as representing the CNC may not file an appeal on behalf of the Neighborhood Council; persons affiliated with a CNC may only file as an individual on behalf of self.

***Please note** that the appellate body must act on your appeal within a time period specified in the Section(s) of the Los Angeles Municipal Code (LAMC) pertaining to the type of appeal being filed. The Department of City Planning will make its best efforts to have appeals scheduled prior to the appellate body's last day to act in order to provide due process to the appellant. If the appellate body is unable to come to a consensus or is unable to hear and consider the appeal prior to the last day to act, the appeal is automatically deemed denied, and the original decision will stand. The last day to act as defined in the LAMC may only be extended if formally agreed upon by the applicant.*

This Section for City Planning Staff Use Only		
Base Fee:	Reviewed & Accepted by (DSC Planner):	Date:
Receipt No:	Deemed Complete by (Project Planner):	Date:
☐ Determination authority notified	☐ Original receipt and BTC receipt (if original applicant)	

Committees:

Chair
Personnel, Audits, and Animal Welfare

Vice Chair
Transportation

Member
Energy, Climate Change, Environmental Justice and River

Public Works

Ad Hoc Committee on 2028 Olympics and Paralympics Games

Website: http://cd5.lacity.org
Email: Paul.Koretz@lacity.org

PAUL KORETZ
Councilmember, Fifth District

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Suite 600
Encino, CA 91436
(818) 971-3088
(818) 788-9210 Fax

West L.A. Office:
6380 Wilshire Blvd.
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Los Angeles, CA 90048
(323) 866-1828
(323) 852-1129 Fax

June 16, 2021

West Los Angeles Area Planning Commission
Los Angeles City Hall
200 N. Spring Street

Dear Esteemed Commissioners:

In reviewing the Zoning Administrator's determination, dated June 2, 2021, for Case number ZA-1989-17683-PA2, a Plan Approval, I am aggrieved and have decided to appeal this determination to protect the health and safety of the community which I represent.

For the reasons listed below in addition to the entirety of the record, I am requesting that this commission find that the Zoning Administrator erred and abused his discretion and that the subject site is not in substantial compliance with the conditions set forth in the settlement agreement. I further ask you to use the City's police powers in proportion to the potential danger to the community by denying the Plan Approval and move to recommend a revocation hearing for the entire facility. It must be understood that the Plan Approval action is only for a portion of this facility.

A review of the case file indicates that the operators of the facility failed to maintain compliance with all of the conditions of the Settlement Agreement and the requirements of the Los Angeles Municipal Code in addition to other regulatory requirements. The Conditions of Approval of Determination have not been substantially complied with. Require reports of the settlement agreement are absent from the case file and open orders to comply have not been resolved. Permit history is either absent or work was done without permits. No evidence of Mitigation Monitoring for the EIR has been submitted to the case file.

While acknowledging that the Applicant violated some of the conditions of approval, the ZA nonetheless erred in determining that the Applicant was in substantial compliance with the

Settlement Agreement. The record is clear, the operation has a long list of orders from LA Fire among other agencies, has not provided required studies as required in the settlement agreement or provided any evidence of mitigation monitoring for the EIR. This is evidence enough that the subject site is not in substantial conformance.

The following are the points upon which I appeal the ZA's Determination Letter:

1) The 2001 "Settlement Agreement" between the City of Los Angeles ("the City"), the City Council, Neighbors for a Safe Environment (NASE), and the "Operator" of the Oil Drilling Site at 9101 West Pico Boulevard states that the operator is every five years to submit an application to the Department of City Planning for a Plan Approval (Case No. ZA-1989017683-PA2) to review compliance with the conditions of approval imposed under Case No. ZA-17683(PAD). On page 2 of the Letter, the Zoning Administrator states that "This Plan Approval process began with a November 19, 2019 letter from the Chief Zoning Administrator notifying the operator of the West Pico Drill Site that it was required to file a Plan Approval for a review of compliance with the conditions imposed under Case No. ZA-17683(PAD), as required by the Settlement Agreement." The fact that the operator did not in 2019 initiate a Plan Approval process, nor in 2011, nor in 2006, is, in and of itself, an ongoing and substantial violation of the Agreement with NASE.

2) The Letter states on page 2 that the "Office of Zoning Administration review of the whole of the record found that the operator was in violation of Condition 36, Condition 39, Condition 49 and Condition 72 of the conditions of approval imposed by the Board of Zoning Appeal in its action taken on BZA No. 2000-1697 (the appeal of Case No. ZA-1989-17683-PAD). Also, the Zoning Administrator found the operator was in violation of clause 4b of the 2001 Settlement Agreement." I believe that those violations alone as detailed by the Zoning Administrator provide ample evidence that the Conditions have not been and are not being substantially complied with.

    a) Condition 36

    b) Condition 39

    c) Condition 49

    d) Condition 72

3) "The Zoning Administrator's Office learned the operator's production facility is in violation of Municipal Code Section 13.01-F.26, which requires that all power operations be carried on by electrical power and that said power be generated off-site."

4) The following items from the Agreement were not mentioned in the Letter of Determination, nor are the reports they detail to be found in the case file, which is a substantive omission.

   a) Under, "Obtaining of air quality data" (Agreement, pg. 3), the Agreement states that NASE will designate a consultant (the "Air Quality Consultant") and a "Risk Assessment Expert" who will sample fugitive and other emissions inside the derrick structure and report on the incremental risk to the nearest off-site human receptors of cancer and other indicated diseases posed by operations at the drill site facility. There is no mention of this in the Letter of Determination and no such reports can be found in the case file.

   b) Under "Noise" (Agreement, pg. 5), the Agreement states in regards to nighttime noise creating an unreasonable impact on nearby residents, that the Zoning Administrator shall consider additional mitigating measures as shall be required to eliminate any such impact. The ZA did not review mitigation measures in its Letter of Determination.

   c) Under "Enforcement" (Agreement, pg. 6), the Agreement states that the Risk Assessment Expert shall report any risk of cancer to the regulatory agencies, including the City and that the ZA will impose any additional conditions deemed appropriate. There is no mention of this in the Letter of Determination, nor in the case file.

      i) The Agreement further states that the operator will, upon each five-year anniversary of the first review of conditions, request an additional review of conditions pursuant to the procedures prescribed in Condition No. 78. The operator has not requested any such review of conditions, missing 2011, 2016, until the City requested the operator act. This is a substantial omission of an important agreement point for more than a decade and a half.

      ii) The City of LA's Department of Building and Safety was designated to receive and log complaints regarding odors and noise at the drill site on a 24-hour basis. There are no such logs in the case file.

d) Under "Financial Provisions" (Agreement, pg. 7), the Agreement states that the operator will pay NASE to engage technical experts and perform testing, pay for laboratories to analyze the air quality samples, among other items. There is no mention of this arrangement in the Letter of Determination, nor are reports to be found in the case file.

From the Letter, page 3, "Pursuant to LAMC Section 13.01-E.2(i) - A Zoning Administrator may impose additional conditions or require corrective measures to be taken if he or she finds, after actual observations or experience with drilling one or more of the wells in the district, that additional conditions are necessary to afford greater protection to surrounding property. I Believe that the concerning record detail shows a substantial violation of the Agreement for well over a decade, merit the imposition of additional conditions and corrective measures, including:

a) A condition requiring the installation of an air monitoring system so as to protect the residents surrounding the drill site from fugitive emissions such as those as detailed in the Letter and to allow the South Coast Air Quality Management District (SCAQMD) to better track such.

b) A condition such as that already agreed to by the Rancho Park Drill Site operator and the surrounding neighborhood residents and actively requested by the West Pico Drill Site operator in these proceedings to, until such time the City of Los Angeles has in place its own annual inspections ordinance, hire a third party consultant to perform an annual inspection of the West Pico Drill Site and to deliver those findings to the City of Los Angeles Petroleum Administrator within sixty (60) days of the inspection annually.

Respectfully submitted,

Paul Koretz

PAUL KORETZ
Councilmember, 5th District

APPLICATIONS:

APPEAL APPLICATION

Instructions and Checklist

Related Code Section: Refer to the City Planning case determination to identify the Zone Code section for the entitlement and the appeal procedure.

Purpose: This application is for the appeal of Department of City Planning determinations authorized by the Los Angeles Municipal Code (LAMC).

A. APPELLATE BODY/CASE INFORMATION

1. APPELLATE BODY

☑ Area Planning Commission ☐ City Planning Commission ☐ City Council ☐ Director of Planning
☐ Zoning Administrator

Regarding Case Number: ZA-1989-17683-PA2

Project Address: 9101 West Pico Boulevard

Final Date to Appeal: 06/17/2021

2. APPELLANT

Appellant Identity: (check all that apply)
❒ Representative ❒ Property Owner
❒ Applicant ❒ Operator of the Use/Site

☑ Person, other than the Applicant, Owner or Operator claiming to be aggrieved

☐ Person affected by the determination made by the **Department of Building and Safety**

❒ Representative ❒ Owner ❒ Aggrieved Party
❒ Applicant ❒ Operator

3. APPELLANT INFORMATION

Appellant's Name: Amy C. Minteer on behalf of Neighbors for a Safe Environment

Company/Organization: Chatten-Brown, Carstens & Minteer LLP

Mailing Address: 2200 Pacific Coast Highway, Ste. 318

City: Hermosa Beach State: CA Zip: 90254

Telephone: (310) 798-2400 E-mail: acm@cbcearthlaw.com

a. Is the appeal being filed on your behalf or on behalf of another party, organization or company?

☐ Self ☑ Other: Neighbors for a Safe Environment

b. Is the appeal being filed to support the original applicant's position? ☐ Yes ☑ No

4. REPRESENTATIVE/AGENT INFORMATION

Representative/Agent name (if applicable): _____

Company: _____

Mailing Address: _____

City: _____ State: _____. Zip: _____

Telephone: _____ E-mail: _____

5. JUSTIFICATION/REASON FOR APPEAL

a. Is the entire decision, or only parts of it being appealed? ☑ Entire ☐ Part

b. Are specific conditions of approval being appealed? ☐ Yes ☑ No

If Yes, list the condition number(s) here: _____

Attach a separate sheet providing your reasons for the appeal. Your reason must state:

☑ The reason for the appeal ☑ How you are aggrieved by the decision

☑ Specifically the points at issue ☑ Why you believe the decision-maker erred or abused their discretion

6. APPLICANT'S AFFIDAVIT

I certify that the statements contained in this application are complete and true:

Appellant Signature: _____ Date: June 16, 2021

GENERAL APPEAL FILING REQUIREMENTS

B. ***ALL CASES REQUIRE THE FOLLOWING ITEMS - SEE THE ADDITIONAL INSTRUCTIONS FOR SPECIFIC CASE TYPES***

1. Appeal Documents

a. Three (3) sets - The following documents are required for each appeal filed (1 original and 2 duplicates) Each case being appealed is required to provide three (3) sets of the listed documents.

☐ Appeal Application (form CP-7769)
☐ Justification/Reason for Appeal
☐ Copies of Original Determination Letter

b. Electronic Copy

☐ Provide an electronic copy of your appeal documents on a flash drive (planning staff will upload materials during filing and return the flash drive to you) or a CD (which will remain in the file). The following items must be saved as individual PDFs and labeled accordingly (e.g. "Appeal Form.pdf", "Justification/Reason Statement.pdf", or "Original Determination Letter.pdf" etc.). No file should exceed 9.8 MB in size.

c. Appeal Fee

☐ Original Applicant - A fee equal to 85% of the original application fee, provide a copy of the original application receipt(s) to calculate the fee per LAMC Section 19.01B 1.
☐ Aggrieved Party - The fee charged shall be in accordance with the LAMC Section 19.01B 1.

d. Notice Requirement

☐ Mailing List - All appeals require noticing per the applicable LAMC section(s). Original Applicants must provide noticing per the LAMC
☐ Mailing Fee - The appeal notice mailing fee is paid by the project applicant, payment is made to the City Planning's mailing contractor (BTC), a copy of the receipt must be submitted as proof of payment.

SPECIFIC CASE TYPES - APPEAL FILING INFORMATION

C. DENSITY BONUS / TRANSIT ORIENTED COMMUNITES (TOC)

1. Density Bonus/TOC
Appeal procedures for Density Bonus/TOC per LAMC Section 12.22.A 25 (g) f.

NOTE:
- Density Bonus/TOC cases, only the *on menu or additional incentives* items can be appealed.

- Appeals of Density Bonus/TOC cases can only be filed by adjacent owners or tenants (must have documentation), and always only appealable to the Citywide Planning Commission.

☐ Provide documentation to confirm adjacent owner or tenant status, i.e., a lease agreement, rent receipt, utility bill, property tax bill, ZIMAS, drivers license, bill statement etc.

D. WAIVER OF DEDICATION AND OR IMPROVEMENT

Appeal procedure for Waiver of Dedication or Improvement per LAMC Section 12.37 I.

NOTE:
- Waivers for By-Right Projects, can only be appealed by the owner.

- When a Waiver is on appeal and is part of a master land use application request or subdivider's statement for a project, the applicant may appeal pursuant to the procedures that governs the entitlement.

E. TENTATIVE TRACT/VESTING

1. Tentative Tract/Vesting - Appeal procedure for Tentative Tract / Vesting application per LAMC Section 17.54 A.

NOTE: Appeals to the City Council from a determination on a Tentative Tract (TT or VTT) by the Area or City Planning Commission must be filed within 10 days of the date of the written determination of said Commission.

☐ Provide a copy of the written determination letter from Commission.

F. BUILDING AND SAFETY DETERMINATION

☐ **1.** Appeal of the *Department of Building and Safety* determination, per LAMC 12.26 K 1, an appellant is considered the **Original Applicant** and must provide noticing and pay mailing fees.

a. Appeal Fee
☐ Original Applicant - The fee charged shall be in accordance with LAMC Section 19.01B 2, as stated in the Building and Safety determination letter, plus all surcharges. (the fee specified in Table 4-A, Section 98.0403.2 of the City of Los Angeles Building Code)

b. Notice Requirement
☐ Mailing Fee - The applicant must pay mailing fees to City Planning's mailing contractor (BTC) and submit a copy of receipt as proof of payment.

☐ **2.** Appeal of the *Director of City Planning* determination per LAMC Section 12.26 K 6, an applicant or any other aggrieved person may file an appeal, and is appealable to the Area Planning Commission or Citywide Planning Commission as noted in the determination.

a. Appeal Fee
☐ Original Applicant - The fee charged shall be in accordance with the LAMC Section 19.01 B 1 a.

b. Notice Requirement
☐ Mailing List - The appeal notification requirements per LAMC Section 12.26 K 7 apply.
☐ Mailing Fees - The appeal notice mailing fee is made to City Planning's mailing contractor (BTC), a copy of receipt must be submitted as proof of payment.

G. NUISANCE ABATEMENT

1. Nuisance Abatement - Appeal procedure for Nuisance Abatement per LAMC Section 12.27.1 C 4

NOTE:
- Nuisance Abatement is only appealable to the City Council.

a. Appeal Fee

☐ Aggrieved Party the fee charged shall be in accordance with the LAMC Section 19.01 B 1.

2. Plan Approval/Compliance Review

Appeal procedure for Nuisance Abatement Plan Approval/Compliance Review per LAMC Section 12.27.1 C 4.

a. Appeal Fee

☐ Compliance Review - The fee charged shall be in accordance with the LAMC Section 19.01 B.

☐ Modification - The fee shall be in accordance with the LAMC Section 19.01 B.

NOTES

A Certified Neighborhood Council (CNC) or a person identified as a member of a CNC or as representing the CNC may not file an appeal on behalf of the Neighborhood Council; persons affiliated with a CNC may only file as an individual on behalf of self.

***Please note** that the appellate body must act on your appeal within a time period specified in the Section(s) of the Los Angeles Municipal Code (LAMC) pertaining to the type of appeal being filed. The Department of City Planning will make its best efforts to have appeals scheduled prior to the appellate body's last day to act in order to provide due process to the appellant. If the appellate body is unable to come to a consensus or is unable to hear and consider the appeal prior to the last day to act, the appeal is automatically deemed denied, and the original decision will stand. The last day to act as defined in the LAMC may only be extended if formally agreed upon by the applicant.*

This Section for City Planning Staff Use Only		
Base Fee:	Reviewed & Accepted by (DSC Planner):	Date:
Receipt No:	Deemed Complete by (Project Planner):	Date:
☐ Determination authority notified	☐ Original receipt and BTC receipt (if original applicant)	

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Fax: (310)798-2402
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Amy C. Minteer
Email Address:
acm@cbcearthlaw.com
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310-798-2409

STATEMENT OF REASONS FOR APPEAL;
Case No. ZA-1989-17683
ENV-2020-1328-CE

On behalf of Neighbors for A Safe Environment (NASE), a California nonprofit corporation seeking to protect neighborhoods from the impacts of oil drilling and production, we provide this summary of our reasons for appeal of the Plan Approval determination for 9101 West Pico Boulevard. Additional details regarding these legal violations and proposals to address those violations are included in the referenced attachments to this statement of reasons.

The overarching failing of the June 2, 2021 Zoning Administrator (ZA) Determination is that, while it recognizes some of the many legal violations on the site and says at one point that "the current conditions…may not be completely adequate to preserve the health, safety and general welfare of the nearby residential neighborhood," it fails to impose or revise any conditions to ensure these violations and impacts are rectified. Indeed, the headline of the ZA Determination and the effective part of the ruling is a statement that the site is and has been "substantially" in compliance – a statement that the rest of the ZA Determination undermines. The ZA Determination also fails to address many of the most serious violations at 9101 and 9151 West Pico Boulevard. The continuing lack of oversight, investigation, and any consequences for years of illegal activity allowed by the ZA Determination is a green light for all oil companies to ignore City law and CEQA at all drill sites in the City. That endangers not just the public living around the West Pico Drill Site, but also sets precedent that will endanger all communities living around oil drill sites throughout the City.

A. Violation of Conditions of Approval

The June 2, 2021 ZA Determination acknowledges that the operator is in violation of a number of conditions of approval for the site, including Conditions 36, 39, 49 and 72. In addition, there are also violations of Conditions 46, 47, 53, 57, 61 and 78 due to the odor impacts experienced by the community, documented improper waste disposal, noncompliance with fire safety requirements, and lack of timely conditions review which has led to many of the impacts identified herein. (See Attachment 1, August 24, 2020 NASE Letter to ZA.)

The ZA Determination identifies a number of these violations, but then reverses itself and makes the overarching finding that there is substantial compliance with conditions of approval. This fails to "bridge the analytic gap between the raw evidence and ultimate decision," requiring the determination to be set aside as unsupported. (*Topanga Assn. for a Scenic Community v. County of Los Angeles* (1974) 11 Cal.3d 506, 515.)

This failure to ensure compliance with conditions of approval is also a violation of the California Environmental Quality Act (CEQA). "Mitigating conditions are not mere expressions of hope." (*Lincoln Place Tenants Ass'n v. City of Los Angeles* (2005) 130 Cal.App.4th 1491, 1508.) CEQA requires mitigation measures to be concrete and enforceable. (Pub. Resources Code § 21081.6(b).)

B. Los Angeles Municipal Code Violations

In correspondence with the ZA's office, NASE identified several ways in which actions at the site violate plain requirements and prohibitions for oil drilling and production contained in the City's Municipal Code. (Attachment 1.) The ZA Determination includes factual conclusions that concur with several of the Municipal Code violations identified by NASE, but does not require any corrective actions, instead allowing them to continue without any consequences.

As identified by NASE, the Zoning Administrator and the operator have been in violation of Los Angeles Municipal Code (LAMC) § 13.01.E.2.b since the 2000 approval in ZA-1989-17683-PAD because only one Controlled Drill Site can exist in Oil Drilling District U-131. The current ZA Determination in ZA-1989-17683-PA2 continues to insist there are two sites, despite having been shown the pertinent code and the record of ZA determinations from the opening of a single Controlled Drill Site in 1965 until the error of the ZA-1989-17683-PAD in 2000 purporting to see two distinct sites.

The Controlled Drill Site was established by Case No. ZA-17683 in 1965 and defined as a single site spanning lots on both sides of Oakhurst Drive. The Controlled Drill Site was established on two City blocks from the outset, and established as a single integrated Controlled Drill Site as per LAMC 13.01. Here is the legal description and identification of the two-block Controlled Drill Site authorized by Case No. ZA-17683 in 1965:

EXHIBIT "P"

CITY OF LOS ANGELES
CALIFORNIA

NUBER M. SMUTZ
CHIEF ZONING ADMINISTRATOR

ASSOCIATE ZONING ADMINISTRATORS
CHARLES V. CADWALLADER
ARTHUR GVORIN
E. A. RUDGER

SAMUEL WM. YORTY
MAYOR

DEPARTMENT OF
CITY PLANNING

OFFICE OF
ZONING ADMINISTRATION

400 CITY HALL
LOS ANGELES, CALIF. 90012
MADISON 4-5211

August 17, 1965

Occidental Petroleum Corporation
ATTENTION: E. F. Reid,
Vice President
5000 Stockdale Highway
Bakersfield, California

Fire Prevention Bureau

Department of Building & Safety

Re: Z. A. CASE NO. 17683
N'ly of Pico Blvd.
E'ly & W'ly of Oakhurst Drive
Oil Drilling District
No. U-131
D. M. No. 5484

Greetings:

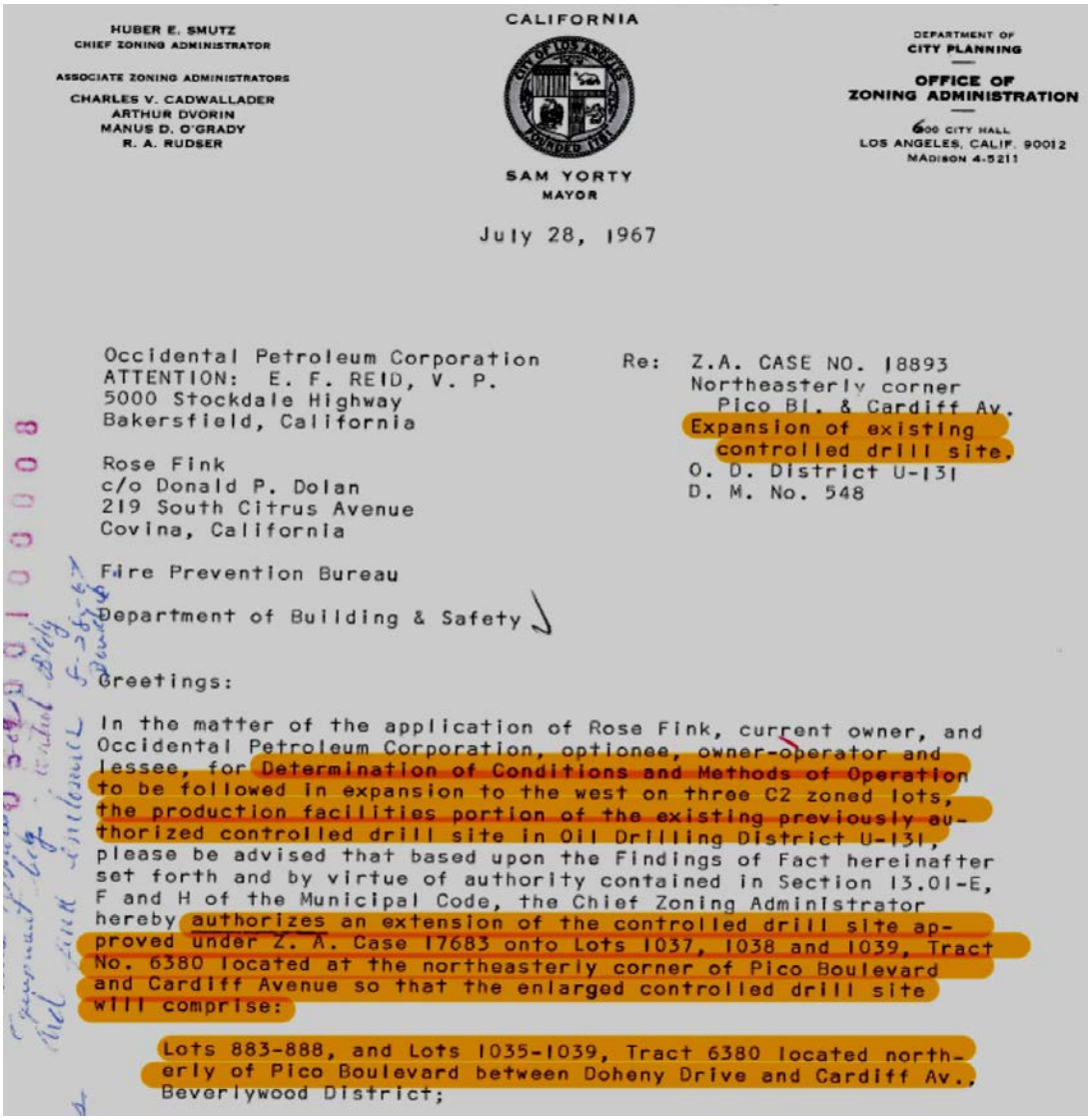
In the matter of the application of Occidental Petroleum Corporation, owners and lessees, for approval of a controlled drill site and for determination of conditions and methods of operation to be followed in drilling for and production of oil and gas on a site consisting of two sections classified in the C2, R3 and R4-1 Zone in Oil Drilling District No. U-131, please be advised that based upon the Findings of Facts hereinafter set forth and by virtue of authority contained in Section 13.01-E, F and H of the Municipal Code, the Chief Zoning Administrator hereby authorizes the use of a site comprising:

Lots 883-888, inc., and Lots 1035 and 1036, Tract 6380, located northerly of Pico Boulevard and extending from Doheny Drive to include the northwesterly corner of Oakhurst Drive, Beverlywood District,

as a controlled drill site on which to drill wells and conduct surface operations in connection with the development and bottoming of wells under Oil Drilling District U-131, consisting of that 70-acre drilling district depicted and described on the map which is a part of Ordinance No. 130340, as well as for surface operations in connection with wells which by subsequent action may be authorized to be bottomed under adjoining and adjacent districts, and also

That drill site was then extended to include the street front on Pico Boulevard from Oakhurst to Cardiff in 1967 pursuant to Case No. ZA-18893 to form one larger site.

The 2000 ZA approval in ZA-1989-17683-PA2 incorrectly asserts that Case No. ZA-18893 created two separate sites. Not only is the existence of two sites in District U-131 forbidden by LAMC 13.01.E.2.b, but the header and opening paragraph of Case No. ZA-18893 from 1967 also make it clear that there was only one drill site:



HUBER E. SMUTZ
CHIEF ZONING ADMINISTRATOR

ASSOCIATE ZONING ADMINISTRATORS
CHARLES V. CADWALLADER
ARTHUR DVORIN
MANUS D. O'GRADY
R. A. RUDSER

CALIFORNIA

SAM YORTY
MAYOR

DEPARTMENT OF
CITY PLANNING

OFFICE OF
ZONING ADMINISTRATION

600 CITY HALL
LOS ANGELES, CALIF. 90012
MADISON 4-5211

July 28, 1967

Occidental Petroleum Corporation
ATTENTION: E. F. REID, V. P.
5000 Stockdale Highway
Bakersfield, California

Rose Fink
c/o Donald P. Dolan
219 South Citrus Avenue
Covina, California

Fire Prevention Bureau

Department of Building & Safety

Re: Z.A. CASE NO. 18893
Northeasterly corner
Pico Bl. & Cardiff Av.
Expansion of existing
controlled drill site.
O. D. District U-131
D. M. No. 548

Greetings:

In the matter of the application of Rose Fink, current owner, and Occidental Petroleum Corporation, optionee, owner-operator and lessee, for Determination of Conditions and Methods of Operation to be followed in expansion to the west on three C2 zoned lots, the production facilities portion of the existing previously authorized controlled drill site in Oil Drilling District U-131, please be advised that based upon the Findings of Fact hereinafter set forth and by virtue of authority contained in Section 13.01-E, F and H of the Municipal Code, the Chief Zoning Administrator hereby authorizes an extension of the controlled drill site approved under Z. A. Case 17683 onto Lots 1037, 1038 and 1039, Tract No. 6380 located at the northeasterly corner of Pico Boulevard and Cardiff Avenue so that the enlarged controlled drill site will comprise:

Lots 883-888, and Lots 1035-1039, Tract 6380 located northerly of Pico Boulevard between Doheny Drive and Cardiff Av., Beverlywood District;

Thus, the drill site was not split until the 2000 ZA approval. The terms of LAMC § 13.01.E.2.b have been in effect continuously since February 1945. An approved Controlled Drill Site is the only kind of land use entitlement that allows for oil production activity in areas Zoned "O." Only one Controlled Drill Site is allowed per 40 acres of Oil Drilling District and the subject district, U-131, has only 70 acres. Two sites are not allowed by code and ZA-1989-17683-PAD created two sites in violation of the LAMC. Approvals, such as ZA-1989-17683-PAD, that are issued in violation of the LAMC "shall be void" as per LAMC § 11.02. Thus, the

split was illegal when it occurred, remains illegal, and the ZA Determination in ZA-1989-17683-PA2 is fatally flawed by this and other errors. (See Attachment 1.)

The operator is also in violation of LAMC § 13.01.F.26 due to the installation of micro-turbines at 9151 West Pico Boulevard. The ZA Determination acknowledges this violation, but does not impose any remedial conditions or required environmental review. Instead, the "Staff Review" section of the determination suggests an application for the micro-turbines is required to be submitted, proposing segmented or piecemealed cases to possibly take the place of a single larger review that could view the entirety of violations, deficient conditions, and at least 25 projects executed illegally. Splitting this up into smaller bites obscures the totality of environmental impacts and violates CEQA's requirement that the whole of a project—"all phases of project planning, implementation, and operation"—are to be considered when assessing environmental review for a project. (CEQA Guidelines §15063, subd. (a)(1).)

Further, Condition 72 is in direct contradiction with LAMC §§ 13.01.H and 13.01.I because it allows redrilling of wells without a full discretionary review by the ZA, which has been expressly required by Code since at least 1955. The ZA Determination acknowledges this contradiction but fails to require any revision to the condition and compounds the error further in its unsupported interpretation of this condition. Condition 72 speaks only of "redrilling"; it does not mention drilling of new wells or conversion of wells between Class A and Class B (i.e., production and injection). The ZA Determination nevertheless stretches the already illegal Condition 72 to cover new wells and converted wells. Since 2000, the site operator has drilled 2 new wells, redrilled 12 existing wells, and converted 10 wells between Classes A and B, all without application to the ZA. The site operator admitted this to the ZA in writing on June 19, 2020. LAMC 13.01.H and 13.01.I plainly require full application to the ZA for review and approval of all of these activities. Since at least 2000, it has been standard practice for ZA's to hold public hearings on all such applications. Since 2016, ZA Memo 133 has explicitly required that public hearings be held, and has forbidden projects to drill, redrill, or convert wells from receiving a categorical exemption from environmental review.

Despite these clear requirements, the ZA Determination claims that all illegal well projects, including even new wells and well conversions, should be handled by the inadequate and illegal procedure set out in Condition 72. No corrective conditions, review of oil well projects, or any type of enforcement is proposed. Instead, the ZA Determination requires only that all filings to the California Department of Oil, Gas and Geothermal Resources be submitted to the ZA Office. This not only fails to address the 24 unapproved oil well projects on the West Pico Drill Site executed since 2000, it compounds and expands the illegality of the 2000 approval. It endangers all communities living near all oil drill sites in City by setting a precedent to ignore the scant legal protections that they have had.

Additionally, because the 2000 ZA approval for the site was issued in violation of these Municipal Code provisions, the 2000 approval, and all subsequent approvals and City permits that rely upon it, should be deemed void pursuant to LAMC § 11.02. (See Attachment 2, March 23, 2021 NASE Letter.)

C. Violation of 2001 Settlement Agreement

The ZA Determination acknowledges the City's and operator's violation of the 2001 settlement agreement with NASE due to the failure to conduct the required five-year reviews for the site. The only reason the current review was commenced was based on a demand from NASE for the City to do so. While the ZA Determination states that the City will continue with the required reviews going forward, this fails to address the impacts to NASE and others in the surrounding community that resulted from the many years the reviews were not conducted and there were numerous violations as the site. Moreover, the current Plan Approval review fails to meet the requirements of the 2001 settlement agreement because there are no corrective conditions imposed or modification of existing conditions to address the ongoing issues at the site. The Zoning Administrator stated at public hearings for this Plan Approval review that the adequacy of conditions would not be evaluated, which violates the Settlement Agreement use of Condition 78 to set the scope and process for 5 Year "Reviews of Conditions" that "evaluate the efficacy of mitigation measures" and change them if warranted. This Plan Approval review did not even consider writing the Settlement Agreement's requirement of cyclical 5 Year Reviews of Conditions into a new a condition, despite an acknowledgment by the ZA Determination and in statements at public hearings that the ZA office had failed to hold these required reviews.

D. California Environmental Quality Act Violations

The ZA Determination improperly relies on Class 1 and Class 21 categorical exemptions to avoid environmental review under CEQA. The interpretation of the language of the guidelines implementing CEQA or the scope of a particular CEQA exemption presents "a question of law, subject to de novo review" by a court. (*Fairbank v. City of Mill Valley* (1999) 75 Cal.App.4th 1243, 1252; *Azusa Land Reclamation Co. v. Main San Gabriel Basin Watermaster* (1997) 52 Cal.App.4th 1165, 1192.) "[A categorical] exemption can be relied on only if a factual evaluation of the agency's proposed activity reveals that it applies." (*Muzzy Ranch Co. v. Solano County Airport Land Use Com*. (2007) 41 Cal.4th 372, 386.) "[T]he agency invoking the [categorical] exemption has the burden of demonstrating" that substantial evidence supports its factual finding that the project fell within the exemption. (*Ibid*.) The City has not met this burden.

First, the ZA Determination is essentially using a Class 1 exemption to legitimize years of illegal actions, which this exemption is not intended to do. Reliance on this categorical exemption and the ZA's willful blindness to noncompliance with requirements to apply to the ZA for discretionary approval of oil well projects incentivizes all oil companies operating in the City to evade application and review for projects in the future. Exempting these unapproved oil well projects from environmental review based on ongoing illegal activities piles illegality on top of illegality. Moreover, it deprives the public and decision makers of information necessary to assess the Project's impacts.

A Class 21 exemption exempts enforcement actions from environmental review. The ZA Determination fails to acknowledge the significant irony in relying on this exemption after identifying noncompliance but imposing no corrective enforcement actions.

Moreover, to the extent this Plan Approval reviewed any of the illegal drilling, redrilling, and converting of wells that has been conducted at the site since 2000, the City is prohibited from relying on a categorical exemption by its own CEQA guidelines in ZA Memo 133. (Attachment 3, ZA Memo 133.)

Exceptions to reliance on a categorical exemption also apply. CEQA prohibits use of a categorical exemption when there is a reasonable possibility that the activity will have a significant effect on the environment due to unusual circumstances." (CEQA Guidelines § 15300.2, subd. (c).) The ongoing legal violations on the site are unusual circumstances and those unusual circumstances have led to and will continue to lead to adverse air quality, odor, noise and other impacts on the surrounding community.

For all of these reasons, and those to be presented in more detail before the West Los Angeles Area Planning Commission, this appeal seeks to overturn this Plan Approval until: all illegal projects executed at the site are reviewed in accordance with City and State law; the efficacy of mitigation measures and all conditions are properly reviewed in accordance with the Settlement Agreement, Condition 72, and CEQA; and mitigation measures have been imposed to address ongoing impacts and the site is in legal compliance. NASE also reserves the right to provide supplemental evidence and analysis regarding the basis of this appeal.

Attachments:
Attachment 1, August 24, 2020 NASE Letter to ZA
Attachment 2, March 23, 2021 NASE Letter
Attachment 3, ZA Memo 133

ATTACHMENT 1

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August 24, 2020

Via U.S. Mail and Email (dylan.sittig@lacity.org, theodore.irving@lacity.org)

Associate Zoning Administrator
Theodore Irving
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Los Angeles, CA 90012

Re: ZA-1989-17683-PA2; Need for Comprehensive Review of Conditions at the West Pico Drill Site (9101 & 9151 W Pico Blvd, Los Angeles, CA 90035) to Address Numerous Legal Violations and Community Impacts

Dear Mr. Irving,

On behalf of Neighbors for A Safe Environment (NASE), a California nonprofit corporation, we seek to address ongoing and emerging legal violations at the West Pico Drill Site (9101 & 9151 West Pico Blvd, Council District 5) that have led to a failure to provide necessary protections to the community surrounding this drill site. NASE has extensively communicated with the Zoning Administrator (ZA) and documented the bases of its concerns. NASE has also cooperated with the operator of the West Pico Drill Site, the Pacific Coast Energy Company (PCEC), and together with PCEC presented a set of practical solutions to the ZA. We urge the City to implement the reasonable and viable remedies we have previously presented and which are outlined below.

Unfortunately, thus far, the City has failed to act on the remedies NASE has proposed, including NASE's request for a Review of Conditions as per the procedures required by the 2001 Settlement Agreement between NASE, the City and the West Pico Drill Site operator and Condition 78 of the 2000 approval in ZA-1989-17683-PAD. Additionally, despite clear requirements in the City's Municipal Code and ZA Memo 133 for discretionary approval supported by environmental review for any oil well drilling, redrilling or conversion project, the City persists in relying on inapplicable categorical exemptions from the California Environmental Quality Act (CEQA) for approvals. Thus far, the City has also refused to impose

necessary modification of conditions to correct a great many ongoing violations of CEQA and City law by the City, as well as by the current and prior site operators.

NASE has retained our firm to make another effort to convince the City to bring its own practices of land use regulation and petroleum administration into compliance with the 2001 Settlement Agreement, CEQA, and City law. This letter outlines the remedies that would achieve those simple goals and provide necessary protection for the surrounding community. It also gives the City notice that if persistent violations are not rectified, NASE is prepared to seek legal remedies to require compliance with the Settlement Agreement and enforce CEQA and City law. We hope that the City will prefer to open discussion about a reasonable set of remedies.

A. NASE Urges the City to Adopt Remedies to Address Legal Violations and Impacts to the Community.

From its initial communication with the Chief ZA in November 2019 up until now, NASE has asked for only modest and eminently viable remedies to alleviate impacts to the community and ensure compliance with the law. NASE has requested that ZA-1989-17683-PA2 be a Review of Conditions, as mandated by the 2001 Settlement Agreement and Condition 78 of the 2000 approval in ZA-1989-17683-PAD. Pursuant to the 2001 Settlement Agreement and Condition 78, the review must:

- examine the West Pico Drill Site's compliance with conditions of approval;
- assess "neighborhood impacts;" and
- evaluate the "efficacy of mitigation measures," with modification of the mitigation measures and/or corrective measures "if warranted."

As set forth herein, this Review of Conditions must be comprehensive, legally compliant and must impose new conditions to address ongoing violations and impacts and correct significant errors in the 2000 approval for the West Pico Drill Site.

1. The Review of Conditions Must Include a Comprehensive Compliance Inspection.

The Review of Conditions for the West Pico Drill Site needs to be prefaced by a Comprehensive Compliance Inspection led by the Office of the Petroleum Administrator. This Review of Conditions should follow the example of the one and only Comprehensive Compliance Inspection of an oil drill site ever conducted by the City—the Rancho Park Drill Site inspection conducted in March/April 2017. Only a full inspection by a qualified professional can fully define the scope of the project in the current review. Thus, the inspection is necessary to

inform compliance with conditions of approval, CEQA clearance and, by the same measure, inform the ZA and the public regarding corrective measures that should be required.

2. The City Must Comply with ZA Memo 133 in its Review of Conditions By Requiring CEQA Review for the Projects on the Drill Site.

The Review of Conditions for the West Pico Drill Site must be compliant with CEQA and with the City's own guidelines in ZA Memo 133. It has been established beyond the shadow of a doubt that mitigation measures from the 2000 approval and its associated EIR have failed to protect the community. Odor complaints from the community are well document and are matched by testimony from Council Member Paul Koretz. The Los Angeles Fire Department also imposed citations on the operators of the West Pico Drill Site for leaving petroleum exposed on surfaces in 2017 and 2018.

Multiple conditions from the 2000 approval have been violated, and the City has failed to enforce mitigation measures established through the associated EIR. Conditions 46, 47, 53, 57, 61, 72, and 78 (concerning odors, nuisance, good oil field practices, redrilling, and reviews of conditions) have all been violated. "Mitigating conditions are not mere expressions of hope." (*Lincoln Place Tenants Ass'n v. City of Los Angeles* (2005) 130 Cal.App.4th 1491, 1508.) CEQA requires mitigation measures to be concrete and enforceable. (Pub. Resources Code § 21081.6(b).) From at least 2006 to the present the ZA and the City have failed to monitor or enforce these conditions in violation of CEQA.

In addition to those ongoing CEQA violations by the City, PCEC has stepped forward to do honest research on projects executed at the site since 2000. PCEC agrees with NASE that there have been 25 unapproved projects, including 24 projects on oil wells that require discretionary review by the ZA according to City code, and thus CEQA clearance by State law. ZA Memo 133 directly states that proposals to drill, redrill, or convert wells are ineligible for categorical exemptions under CEQA. The 25 unapproved projects and the obvious need to revise mitigation measures makes reliance on categorical exemptions utterly improper. An Initial Study and an MND are required, at minimum, and that is what NASE requests.

3. The Continuing Impacts to the Community Demonstrate a Need to Impose New Conditions Through the Review of Conditions.

The ongoing impacts to the community surrounding the West Pico Drill Site, and the numerous violations of existing conditions of approval, demonstrate a clear need to impose new conditions through the Review of Conditions process to prevent these problems from continuing.

Based on NASE's familiarity with the impacts to the community and the existing conditions, it is our position (supported by PCEC) that the following new conditions must be adopted:

- Annual Compliance Inspections led or overseen by qualified professional staff in the Office of the Petroleum Administrator.

- Permanent 24/7 Emissions Monitoring, with recorded data that is reported to the Petroleum Administrator, the ZA, and the public on a quarterly basis.

- Incorporation of the requirement of cyclical Five Year Reviews of Conditions from the 2001 Settlement Agreement into the ZA conditions for the site, using the full procedures delineated in Condition 78 of the 2000 approval as per the Settlement Agreement.

- Immediate Emergency and Accident Reporting to the City (to LAFD, the Petroleum Administrator, and the local Council office) for any emergency or accident that must be reported to any Federal, State, or regional agency.

The need for additional conditions may be identified through the comprehensive compliance inspection as well.

4. The Review of Conditions Must Correct Several Errors from the 2000 Approval.

The Review of Conditions for the West Pico Drill Site must also correct significant errors from the 2000 approval that are inconsistent with City law, the actual record of approvals for the site, and the facts of what actually exists at the site. Those errors include:

- **Delete Condition 72 to Eliminate its Contradiction with LAMC 13.01.H and 13.01I.** This condition addressing "redrilling" directly contradicts the provisions of Los Angeles Municipal Code sections 13.01.H and 13.01.I. Both of these sections require discretionary approval by the ZA before any oil well is drilled, redrilled, or converted between producer and injection well. The contradiction may have contributed to the rash of unapproved projects at the site since 2000, including the redrilling of 12 wells since 2000 without ZA review, approval, or CEQA clearance. Condition 72's undermining of LAMC 13.01.H and 13.01.I on drilling and redrilling wells may have also contributed to the conversion of 10 wells since 2000 without ZA review, approval, or CEQA clearance per the requirements of ZA Memo 133.

- **Correct the Number of Existing Wells.** The 2000 ZA approval for the West Pico Drill Site incorrectly asserts that 69 wells existed at the site in 2000 and that 69 wells had been approved. Only 59 wells currently exist at the site, and only 57 existed in 2000. Only 57 wells have been approved for the site by the ZA. The ZA's error in 2000 reflected a lack of knowledge about the drill site, a lack of knowledge about the difference between a well cellar and a well, and a failure to cross-check with State records from DOGGR (now CalGEM) even as the ZA wrote conditions requiring that all monitoring agencies need to be consulted. This error may have contributed to the drilling of unapproved wells without CEQA clearance in 2005 and 2010.

- **West Pico Drill Site Includes Both 9101 and 9151 West Pico Blvd as a Single Controlled Drill Site.** The 2000 approval improperly split the single integrated "Controlled Drill Site" into two sites because the operator in 2000 proposed a construction project that would occur on only one half of the site. This error runs afoul of LAMC 13.01, especially 13.01.E.2.b. A Controlled Drill Site is the only kind of conditionally approved land use on which oil can be produced from wells and processed for sale. Only one Controlled Drill Site can exist in Oil Drilling District U-131, and only one has ever been approved: namely the West Pico Drill Site, approved in ZA-1965-17683. The ZA severed the unified Controlled Drill Site into two in 2000, leaving both without a legally sustainable basis for operation. This error also may have contributed to the improper installation of microturbines by obscuring the prohibition against electric generation on the Controlled Drill Site or anywhere in the Oil Drilling District that was written into the 1965 approval to establish the Controlled Drill Site. The 2000 approval, which completely rewrote and supplanted the 1965 approval, also prohibits electric generation at the West Pico Drill Site. By improperly splitting the Controlled Drill Site in two, the 2000 approval left the other half of the Controlled Drill Site without any approval or conditions in place.

B. These Remedies Are Necessitated by the Ongoing and Potential Legal Violations.

NASE has chosen to focus on remedies in this communication in a continuing effort to achieve relief for the community and legal compliance by the City. However, the description of the remedies, above, should provide you with an indication of some of the legal violations we may seek to challenge in court, if necessary. These include:

- Ongoing violations of CEQA for the City's failure to enforce mitigation measures from the EIR associated with the 2000 approval for the West Pico Drill Site.

- Failure to require CEQA review for discretionary, and recently discovered, well drilling, redrilling and conversion projects at the West Pico Drill Site.

- The proposed improper reliance on categorical exemptions for the current review of the West Pico Drill Site.

- Failure to enforce LAMC 13.01.H and 13.01.I by allowing operation of 25 unapproved oil well projects on the West Pico Drill Site.

- Violated LAMC 13.01.E.2.b by dividing the Controlled Drill Site into two sites in 2000.

- Breach of the 2000 Settlement Agreement due to the City's failure to conduct the required five-year reviews for the West Pico Drill Site for at least the last 10 years. No legally required reviews have been held during Councilmember Koretz's term in the City Council until NASE demanded this review in November 2019.

- The current ZA review process also appears to be running afoul of the requirements of the 2000 Settlement Agreement, CEQA and City regulations due to its improperly narrow focus and the ZA's stated position that the process would not result in the modification of any conditions.

Conclusion

The problems at the West Pico Drill Site are not isolated incidents and they are not unknown to City officials. The City has been negligent in its land use-based regulation of oil drill sites, failing to protect the communities impacted by these drill sites. It has never performed regular inspections to monitor for compliance with ZA-assigned conditions, and so mitigation measures routinely are not followed and not enforced. Similarly, the City continues to engage in a pattern and practice of handing out categorical exemptions from CEQA review for oil projects, contrary to the requirements of CEQA, ZA Memo 133 and LAMC 13.01.H and 13.01.I. Taken together, this pattern of negligence gives a green light to unapproved projects and turns a blind eye to poor work practices, all at the expense of communities the City is supposed to protect.

Most confounding here is the City's refusal to address environmental, health, and safety protections when an operating oil company comes forward to join with the community in asking the City to implement CEQA properly and to do inspections, require emissions monitoring, and perform serious reviews. This situation must be remedied. It is NASE's hope that the current ZA process can be revised to begin to address these ongoing issues, but if not, we are prepared to pursue available legal options.

Thank you for your time and consideration in this matter.

Sincerely,

Amy Minteer

cc:
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March 23, 2021

Via U.S. Mail and Email
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Re: PRA Request R006330-120320 for West Pico Drill Site; Retention of Oil Permitting Records; and Permit Inspection Fees

Dear Mr. Uyemura, Mr. Terrazas and Ms. Crowley,

On behalf of Neighbors for A Safe Environment (NASE), a California nonprofit corporation seeking to protect neighborhoods from the impacts of oil drilling, we seek to address a partially outstanding Public Records Act (PRA) request from Professor Michael Salman regarding documents relating to permits for oil wells within the City of Los Angeles. We also seek to address the City's record retention policies for these and other related documents, as well as a lack of monitoring of oil drilling activities demonstrated by documents and other information that Professor Salman has received.

Outstanding Public Records Act Request

Professor Salman submitted PRA Request R006330 on December 3, 2020, requesting records pertaining to Los Angeles Fire Departments (LAFD) oil well operating permits for the wells at the West Pico Drill Site that are processed by the Office of Finance for the years spanning 2000 to 2020. This request was submitted to the Office of Finance after Professor Salman spent approximately two months trying to obtain these records from the LAFD. After several requests to LAFD, each supported by additional identifying information to help staff locate the records, LAFD personnel told Professor Salman that the Office of Finance was "the custodian for operational permits" and "the Custodian of Records" for those permits.

The Office of Finance has provided Professor Salman with pdf copies of operating permits for the years 2005-2020. We understand that the Office of Finance digitized records from the start date of 2005, and that paper records for earlier permits may not exist in the Office of Finance. We do not know whether copies of these earlier permits exist in the files of the LAFD, but to the extent they do, we request that any such records held by the LAFD please be produced in response to the several PRA requests that have been filed by Professor Salman.

While the Office of Finance has provided copies of operating permits identified above, it has not yet provided Professor Salman with copies of any communications with LAFD or LADBS or City Planning. It is our understanding that Finance is working with other City information technology agencies to determine if there are electronic records it can recover. If the Office of Finance cannot provide copies of these requested documents from its own files, then we request that the Office of Finance, as the Custodian of Records, please obtain copies from the LAFD Harbor Industrial Unit and from the LADBS and/or City Planning, where these communications originated.

Record Retention for Oil Well Permitting Documents

Professor Salman has received conflicting information from the Office of Finance and LAFD regarding the record retention policies of these departments for documents relating to oil well permits. PRA Request R006330 included a request for all applications, authorizations/rejections communicated by the LAFD and/or LADBS and/or Department of City Planning, communications with the LAFD and/or LADBS and/or City Planning,

communications with the operating oil company, and the permits themselves. There have been inconsistencies in responses to Professor Salman regarding how long the Office of Finance and LAFD retain these documents.

Given that it is unclear how long these documents will be retained under existing department procedures, this letter serves to put the Office of Finance on notice that these records must be retained due to the potential for litigation by NASE addressing oil well operating permits at the West Pico Drill Site. All records (paper, electronic, and on other media) pertaining to LAFD oil well operating permits for the wells at the West Pico Drill Site that are processed by the Office of Finance – including applications, authorizations/rejections communicated by the LAFD and/or LADBS and/or Department of City Planning, communications with the LAFD and/or LADBS and/or City Planning, communications with the operating oil company, and the permits themselves should be retained.

The Zoning Administrator, City Attorney, Petroleum Administrator and other City officials and staff have been advised of the potential for litigation concerning the City's actions and negligence at the West Pico Drill Site (9101 & 9151 W Pico Blvd, Los Angeles, CA 90035) and other similar sites where there has been a pattern and practice of violating City law and CEQA. Please see the attached letter to those City officials and staff, sent on August 24, 2020, in connection with a still open Planning Department case, number ZA-1989-17683-PA2. (Attachment 1.)

Below we set forth additional issues of concern by NASE regarding the City of Los Angeles's failure to monitor, implement, and enforce its own laws governing the operation of oil wells and oil drill sites, as well as the City's violation of the California Environmental Quality Act (CEQA), that are the subjects of potential litigation concerning the West Pico Drill Site and other drill sites within the City.

Renewal of Annual Operating Permits Despite Legal Violations.

LAFD Annual Operating Permits are required for oil wells. (Los Angeles Municipal Code (LAMC) 57.106.6.1, LAMC 57.106.6.3.2.) These Annual Operating Permits are conditioned upon an agreement "to comply with all regulations, laws, or ordinances pertaining thereto." (LAMC 57.105.3.9.1.2.) One such regulation is that: "No person shall drill, deepen or maintain an oil well or convert an oil well from one class to

the other and no permits shall be issued for that use, *until a determination has been made by the Zoning Administrator or Area Planning Commission* pursuant to the procedure prescribed in Subsection H of this section." (LAMC 13.01.I, emphasis added.)

There are currently 57 oil wells at the West Pico Drill Site. As the attached letter to the Zoning Administrator explains, since 2000 there have been 2 new wells drilled, 12 existing wells re-drilled, and 10 wells converted at the West Pico Drill Site, all without application to the Zoning Administrator and therefore without Zoning Administrator approval required by the LAMC and without environmental clearance required by CEQA. All of these wells have been granted LAFD operating permits and annual renewals, despite this failure to comply with City regulations and State law.

Non-compliance with City regulations at oil drill sites is a Citywide problem. For example, the Banning Semi-Controlled Drill Site in Wilmington, established in 2006, has approximately 220 wells and is one of the most troubled sites in the City. There are lengthy records of violations logged by DOGGR/CalGEM and SCAQMD, many of which also violate City law and Zoning Administrator assigned conditions restricting odors, fumes, noise and other nuisances. There have been projects executed without required Zoning Administrator approval, in violation of City regulations. The operator of this site applied for a slew of DOGGR permits to drill new wells in 2019, telling DOGGR that its 2006 Zoning Administrator approval and MND provided local approval and CEQA clearance, failing to disclose that the 2006 approval for drilling new wells was limited to a term of 12 years and expired in August 2018. Despite this, we believe that LAFD Annual Operating Permits for the Banning site in Wilmington are renewed year after year, in violation of the requirement for operator compliance "with all regulations, laws, or ordinances."

In addition to requiring operator compliance "with all regulations, laws, or ordinances," the LAMC also declares that: "Notwithstanding any other provisions of this Code or any other ordinance of the City of Los Angeles, no permit or license shall be issued in violation of any provisions of this Code or any other ordinance of the City of Los Angeles; if any permit or license is issued in violation of any provision of this Code or any other ordinance of the City of Los Angeles the same shall be void. Any permit or license issued, which purports to authorize the doing of any act prohibited by any other provision of this Code or any other ordinance of the City of Los Angeles, *shall be void*." (LAMC 11.02, emphasis added; LAMC 11.01 ["'Shall' is mandatory"].) To the extent

Annual Operating Permits were issued for unapproved or unlawfully approved projects or were issued or renewed despite violations of City regulations, they must be considered void.

Failure to Expend Permitting Renewal Fees for Intended Purpose

The violations of City and State law referenced above and the long history of non-compliance by the operators of the West Pico Drill Site and Banning Semi-Controlled Drill Site in Wilmington is traceable to the City's failure and refusal to do general compliance inspections and enforce its own laws.

The LAFD Annual Operating Permits are issued after a fee is paid, and a fee is required each year for the renewal of the LAFD Annual Operating Permits. These fees were established and are imposed by the City to cover the cost of annual compliance inspections for each drill site in the City. In fiscal year 2020-21, the permit fee was $1,290. For next year, the LAFD has requested and the City Council has agreed to increase the fee to $1,670. This is a cost per permit, and each oil well requires its own permit. The permit cost is calculated to pay for five "inspector hours" per oil well. (See Report from Board of Fire Commissioners," November 18, 2020 https://clkrep.lacity.org/onlinedocs/2020/20-1501_rpt_FC_11-18-2020.pdf, incorporated by reference.) The permit fee is expressly earmarked to pay for oil well inspections, and the permit is conditioned on compliance "with all regulations, laws, or ordinances."

These permitting fees result in significant revenue for the LAFD. There are approximately 1,100 oil wells in the City, so in 2020-21 more than $1.4 million was collected in operating permit fees. With the recently approved fee increase, next year the City will collect $1.8 million to pay for inspections. The West Pico Drill Site has 57 oil wells. In fiscal year 2020-21, $73,530 was collected in permit fees at this one drill site to cover the cost of compliance inspections. The Banning Semi-Controlled Drill Site in Wilmington has approximately 220 wells. In 2020-21, $283,000 of fees earmarked for LAFD compliance inspections of the wells was collected for the operating permits at this site.

Despite collecting significant annual renewal fees to cover the cost of compliance inspections for each oil well in the City, Professor Salman has been informed by LAFD that compliance inspections of each site have no connection to permit renewal. These renewals are approved automatically upon payment of the fee without any reference to

what might be found during inspections, as a matter of standard operating procedure. Indeed, LAFD operating permits have been renewed when there were open and unresolved Notices of Violation from the LAFD itself. Additionally, it is our understanding that the LAFD inspections that are performed look only for Fire Code violations and do not crosscheck approvals from the Zoning Administrator nor permitting and Notices of Violation from any other agency. Thus, when renewing the permits, LAFD has not verified operator compliance "with all regulations, laws, or ordinances."

Failing to expend permitting fees in the manner they were intended, to fund annual compliance inspections, appears to be a major contributing factor to the numerous drill site violations noted above and in the attached letter. Allowing non-compliance with City law by failing to inspect for non-compliance appears to be a continuing pattern and practice. This failure to perform fully-funded annual compliance inspections is particularly alarming given the potential dangers presented by poorly run and poorly regulated oil well operations that have been a subject of major concern in the City for years.

Conclusion

We look forward to your prompt response regarding the outstanding Public Records Act request by Professor Salman. NASE also urges you to carefully consider the legal issues and community concerns we have outlined above. Thank you for your time and consideration in this matter.

Sincerely,

Amy Minteer

Enclosure

cc:

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ATTACHMENT 1

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August 24, 2020

Via U.S. Mail and Email (dylan.sittig@lacity.org, theodore.irving@lacity.org)

Associate Zoning Administrator
Theodore Irving
c/o Dylan Sittig, City Planning Associate
200 N. Spring St, Room 720
Los Angeles, CA 90012

Re: ZA-1989-17683-PA2; Need for Comprehensive Review of Conditions at the West Pico Drill Site (9101 & 9151 W Pico Blvd, Los Angeles, CA 90035) to Address Numerous Legal Violations and Community Impacts

Dear Mr. Irving,

On behalf of Neighbors for A Safe Environment (NASE), a California nonprofit corporation, we seek to address ongoing and emerging legal violations at the West Pico Drill Site (9101 & 9151 West Pico Blvd, Council District 5) that have led to a failure to provide necessary protections to the community surrounding this drill site. NASE has extensively communicated with the Zoning Administrator (ZA) and documented the bases of its concerns. NASE has also cooperated with the operator of the West Pico Drill Site, the Pacific Coast Energy Company (PCEC), and together with PCEC presented a set of practical solutions to the ZA. We urge the City to implement the reasonable and viable remedies we have previously presented and which are outlined below.

Unfortunately, thus far, the City has failed to act on the remedies NASE has proposed, including NASE's request for a Review of Conditions as per the procedures required by the 2001 Settlement Agreement between NASE, the City and the West Pico Drill Site operator and Condition 78 of the 2000 approval in ZA-1989-17683-PAD. Additionally, despite clear requirements in the City's Municipal Code and ZA Memo 133 for discretionary approval supported by environmental review for any oil well drilling, redrilling or conversion project, the City persists in relying on inapplicable categorical exemptions from the California Environmental Quality Act (CEQA) for approvals. Thus far, the City has also refused to impose

necessary modification of conditions to correct a great many ongoing violations of CEQA and City law by the City, as well as by the current and prior site operators.

NASE has retained our firm to make another effort to convince the City to bring its own practices of land use regulation and petroleum administration into compliance with the 2001 Settlement Agreement, CEQA, and City law. This letter outlines the remedies that would achieve those simple goals and provide necessary protection for the surrounding community. It also gives the City notice that if persistent violations are not rectified, NASE is prepared to seek legal remedies to require compliance with the Settlement Agreement and enforce CEQA and City law. We hope that the City will prefer to open discussion about a reasonable set of remedies.

A. NASE Urges the City to Adopt Remedies to Address Legal Violations and Impacts to the Community.

From its initial communication with the Chief ZA in November 2019 up until now, NASE has asked for only modest and eminently viable remedies to alleviate impacts to the community and ensure compliance with the law. NASE has requested that ZA-1989-17683-PA2 be a Review of Conditions, as mandated by the 2001 Settlement Agreement and Condition 78 of the 2000 approval in ZA-1989-17683-PAD. Pursuant to the 2001 Settlement Agreement and Condition 78, the review must:

- examine the West Pico Drill Site's compliance with conditions of approval;
- assess "neighborhood impacts;" and
- evaluate the "efficacy of mitigation measures," with modification of the mitigation measures and/or corrective measures "if warranted."

As set forth herein, this Review of Conditions must be comprehensive, legally compliant and must impose new conditions to address ongoing violations and impacts and correct significant errors in the 2000 approval for the West Pico Drill Site.

1. The Review of Conditions Must Include a Comprehensive Compliance Inspection.

The Review of Conditions for the West Pico Drill Site needs to be prefaced by a Comprehensive Compliance Inspection led by the Office of the Petroleum Administrator. This Review of Conditions should follow the example of the one and only Comprehensive Compliance Inspection of an oil drill site ever conducted by the City—the Rancho Park Drill Site inspection conducted in March/April 2017. Only a full inspection by a qualified professional can fully define the scope of the project in the current review. Thus, the inspection is necessary to

inform compliance with conditions of approval, CEQA clearance and, by the same measure, inform the ZA and the public regarding corrective measures that should be required.

2. The City Must Comply with ZA Memo 133 in its Review of Conditions By Requiring CEQA Review for the Projects on the Drill Site.

The Review of Conditions for the West Pico Drill Site must be compliant with CEQA and with the City's own guidelines in ZA Memo 133. It has been established beyond the shadow of a doubt that mitigation measures from the 2000 approval and its associated EIR have failed to protect the community. Odor complaints from the community are well document and are matched by testimony from Council Member Paul Koretz. The Los Angeles Fire Department also imposed citations on the operators of the West Pico Drill Site for leaving petroleum exposed on surfaces in 2017 and 2018.

Multiple conditions from the 2000 approval have been violated, and the City has failed to enforce mitigation measures established through the associated EIR. Conditions 46, 47, 53, 57, 61, 72, and 78 (concerning odors, nuisance, good oil field practices, redrilling, and reviews of conditions) have all been violated. "Mitigating conditions are not mere expressions of hope." (*Lincoln Place Tenants Ass'n v. City of Los Angeles* (2005) 130 Cal.App.4th 1491, 1508.) CEQA requires mitigation measures to be concrete and enforceable. (Pub. Resources Code § 21081.6(b).) From at least 2006 to the present the ZA and the City have failed to monitor or enforce these conditions in violation of CEQA.

In addition to those ongoing CEQA violations by the City, PCEC has stepped forward to do honest research on projects executed at the site since 2000. PCEC agrees with NASE that there have been 25 unapproved projects, including 24 projects on oil wells that require discretionary review by the ZA according to City code, and thus CEQA clearance by State law. ZA Memo 133 directly states that proposals to drill, redrill, or convert wells are ineligible for categorical exemptions under CEQA. The 25 unapproved projects and the obvious need to revise mitigation measures makes reliance on categorical exemptions utterly improper. An Initial Study and an MND are required, at minimum, and that is what NASE requests.

3. The Continuing Impacts to the Community Demonstrate a Need to Impose New Conditions Through the Review of Conditions.

The ongoing impacts to the community surrounding the West Pico Drill Site, and the numerous violations of existing conditions of approval, demonstrate a clear need to impose new conditions through the Review of Conditions process to prevent these problems from continuing.

Based on NASE's familiarity with the impacts to the community and the existing conditions, it is our position (supported by PCEC) that the following new conditions must be adopted:

- Annual Compliance Inspections led or overseen by qualified professional staff in the Office of the Petroleum Administrator.

- Permanent 24/7 Emissions Monitoring, with recorded data that is reported to the Petroleum Administrator, the ZA, and the public on a quarterly basis.

- Incorporation of the requirement of cyclical Five Year Reviews of Conditions from the 2001 Settlement Agreement into the ZA conditions for the site, using the full procedures delineated in Condition 78 of the 2000 approval as per the Settlement Agreement.

- Immediate Emergency and Accident Reporting to the City (to LAFD, the Petroleum Administrator, and the local Council office) for any emergency or accident that must be reported to any Federal, State, or regional agency.

The need for additional conditions may be identified through the comprehensive compliance inspection as well.

4. The Review of Conditions Must Correct Several Errors from the 2000 Approval.

The Review of Conditions for the West Pico Drill Site must also correct significant errors from the 2000 approval that are inconsistent with City law, the actual record of approvals for the site, and the facts of what actually exists at the site. Those errors include:

- **Delete Condition 72 to Eliminate its Contradiction with LAMC 13.01.H and 13.01I.** This condition addressing "redrilling" directly contradicts the provisions of Los Angeles Municipal Code sections 13.01.H and 13.01.I. Both of these sections require discretionary approval by the ZA before any oil well is drilled, redrilled, or converted between producer and injection well. The contradiction may have contributed to the rash of unapproved projects at the site since 2000, including the redrilling of 12 wells since 2000 without ZA review, approval, or CEQA clearance. Condition 72's undermining of LAMC 13.01.H and 13.01.I on drilling and redrilling wells may have also contributed to the conversion of 10 wells since 2000 without ZA review, approval, or CEQA clearance per the requirements of ZA Memo 133.

- **Correct the Number of Existing Wells.** The 2000 ZA approval for the West Pico Drill Site incorrectly asserts that 69 wells existed at the site in 2000 and that 69 wells had been approved. Only 59 wells currently exist at the site, and only 57 existed in 2000. Only 57 wells have been approved for the site by the ZA. The ZA's error in 2000 reflected a lack of knowledge about the drill site, a lack of knowledge about the difference between a well cellar and a well, and a failure to cross-check with State records from DOGGR (now CalGEM) even as the ZA wrote conditions requiring that all monitoring agencies need to be consulted. This error may have contributed to the drilling of unapproved wells without CEQA clearance in 2005 and 2010.

- **West Pico Drill Site Includes Both 9101 and 9151 West Pico Blvd as a Single Controlled Drill Site.** The 2000 approval improperly split the single integrated "Controlled Drill Site" into two sites because the operator in 2000 proposed a construction project that would occur on only one half of the site. This error runs afoul of LAMC 13.01, especially 13.01.E.2.b. A Controlled Drill Site is the only kind of conditionally approved land use on which oil can be produced from wells and processed for sale. Only one Controlled Drill Site can exist in Oil Drilling District U-131, and only one has ever been approved: namely the West Pico Drill Site, approved in ZA-1965-17683. The ZA severed the unified Controlled Drill Site into two in 2000, leaving both without a legally sustainable basis for operation. This error also may have contributed to the improper installation of microturbines by obscuring the prohibition against electric generation on the Controlled Drill Site or anywhere in the Oil Drilling District that was written into the 1965 approval to establish the Controlled Drill Site. The 2000 approval, which completely rewrote and supplanted the 1965 approval, also prohibits electric generation at the West Pico Drill Site. By improperly splitting the Controlled Drill Site in two, the 2000 approval left the other half of the Controlled Drill Site without any approval or conditions in place.

B. These Remedies Are Necessitated by the Ongoing and Potential Legal Violations.

NASE has chosen to focus on remedies in this communication in a continuing effort to achieve relief for the community and legal compliance by the City. However, the description of the remedies, above, should provide you with an indication of some of the legal violations we may seek to challenge in court, if necessary. These include:

- Ongoing violations of CEQA for the City's failure to enforce mitigation measures from the EIR associated with the 2000 approval for the West Pico Drill Site.

- Failure to require CEQA review for discretionary, and recently discovered, well drilling, redrilling and conversion projects at the West Pico Drill Site.

- The proposed improper reliance on categorical exemptions for the current review of the West Pico Drill Site.

- Failure to enforce LAMC 13.01.H and 13.01.I by allowing operation of 25 unapproved oil well projects on the West Pico Drill Site.

- Violated LAMC 13.01.E.2.b by dividing the Controlled Drill Site into two sites in 2000.

- Breach of the 2000 Settlement Agreement due to the City's failure to conduct the required five-year reviews for the West Pico Drill Site for at least the last 10 years. No legally required reviews have been held during Councilmember Koretz's term in the City Council until NASE demanded this review in November 2019.

- The current ZA review process also appears to be running afoul of the requirements of the 2000 Settlement Agreement, CEQA and City regulations due to its improperly narrow focus and the ZA's stated position that the process would not result in the modification of any conditions.

Conclusion

The problems at the West Pico Drill Site are not isolated incidents and they are not unknown to City officials. The City has been negligent in its land use-based regulation of oil drill sites, failing to protect the communities impacted by these drill sites. It has never performed regular inspections to monitor for compliance with ZA-assigned conditions, and so mitigation measures routinely are not followed and not enforced. Similarly, the City continues to engage in a pattern and practice of handing out categorical exemptions from CEQA review for oil projects, contrary to the requirements of CEQA, ZA Memo 133 and LAMC 13.01.H and 13.01.I. Taken together, this pattern of negligence gives a green light to unapproved projects and turns a blind eye to poor work practices, all at the expense of communities the City is supposed to protect.

Most confounding here is the City's refusal to address environmental, health, and safety protections when an operating oil company comes forward to join with the community in asking the City to implement CEQA properly and to do inspections, require emissions monitoring, and perform serious reviews. This situation must be remedied. It is NASE's hope that the current ZA process can be revised to begin to address these ongoing issues, but if not, we are prepared to pursue available legal options.

Thank you for your time and consideration in this matter.

Sincerely,

Amy Minteer

cc:
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ATTACHMENT 3

OFFICE OF ZONING ADMINISTRATION

MEMORANDUM

ZA MEMORANDUM NO. 133

September 19, 2016

TO: Office of Zoning Administration
Development Services Centers
Department of Building and Safety
Department of Public Works – Bureau of Engineering
Los Angeles Fire Department
Los Angeles Department of Water and Power

FROM: Linn K. Wyatt
Chief Zoning Administrator

SUBJECT: **APPLICATION AND PROCESSING REQUIREMENTS, INCLUDING CEQA REVIEW, FOR OIL AND GAS APPROVALS PURSUANT TO LOS ANGELES MUNICIPAL CODE SECTION 13.01-H.**

This Memorandum supersedes ZA Memorandum No. 94, dated December 12, 1994, and ZA Memorandum No. 94A, dated March 24, 2000.

This Memorandum is intended to establish a comprehensive set of procedures and policies for the acceptance and processing of applications for oil drilling approvals pursuant to Los Angeles Municipal Code (LAMC) Section 13.01-H and to establish City guidelines for the California Environmental Quality Act (CEQA) review of Section 13.01-H oil drilling applications.

I. Background

The LAMC requires a formal application and a filing fee in conjunction with a request for a determination of conditions for the conduct of oil drilling pursuant to LAMC Section 13.01-H. Other than the requirement for an application and payment of a filing fee, the LAMC contains no express procedural requirements for the determination of conditions under Section 13.01-H for an original approval or for a modification or clarification to a previously approved determination of conditions.

Z.A. Memoranda Nos. 94 and 94A

Historically, as described in ZA Memoranda Nos. 94 and 94A, applicants were permitted to apply for modifications to the original conditions for oil drilling approvals through the use of a more limited review process (similar to a plan approval under LAMC Section 12.24-L and M).

The use of the process outlined in Memoranda Nos. 94 and 94A is no longer permitted for any Section 13.01-H application, including those submitted as a determination of conditions, modification of condition, request for clarification, or related approval. All applicants seeking an approval under Section 13.01-H must follow the application procedures outlined in this Memorandum. All applications seeking any approval under Section 13.01-H will be processed by the City, including the Office of the Zoning Administrator, pursuant to this Memorandum.

Existing Approvals with Modification Procedures

In addition to the above historical process, there are existing active approvals which include conditions establishing a process for subsequent modifications or condition review. An example of one condition reads substantially as follows:

> *Drilling operations for the first X wells identified in the grant clause of the instant determination shall be completed within 36 months from the effective date of this determination. The drilling for the following X wells as hereby authorized shall be subject to a review of plans by the Zoning Administrator, without a public hearing, for the purpose of updating the record with the well identification and path.*

Another condition reads substantially as follows:

> *Review of Conditions. Two years following completion of construction… the applicant shall submit a Plan Approval application for reviewing the effectiveness of these conditions. … The applicant shall submit a 500-foot radius map with accompanying labels for owners and occupants. The Zoning Administrator may set the matter for public hearing if warranted.*

Both of these conditions include processes that are inconsistent with the processes established in this Memorandum. The first condition is inconsistent because it allows for modifications without a public hearing. The second condition is inconsistent because it allows the Zoning Administrator to not set a public hearing for a Plan Approval and implies the notice radius is 500 feet.

To the extent that any existing condition or grant in an existing approval gives the Zoning Administrator discretion in the process to be followed for a modification or condition review, the procedures in this Memorandum shall be followed, in accordance with the findings in Section II and the purpose statements in Section III.

To the extent that any existing condition or grant in an existing approval mandates a procedure that is inconsistent with this Memorandum, the Zoning Administrator shall consider whether a Plan Approval process shall be initiated by the City to revise any conditions to protect the public health, safety and welfare, including any condition establishing a process inconsistent with the purpose of this Memorandum. On the other hand, if an existing condition or provision is not modified through a Plan Approval, then the process outlined in the existing approval shall be followed.

Nothing in this Memorandum is intended to expand the authority the City has to initiate a Plan Approval.

II. Findings

In issuing this Memorandum, the Zoning Administrator makes the following findings:

A. In adopting the California Environmental Quality Act[1], the Legislature declared:

> It is the intent of the Legislature that all agencies of the state government which regulate activities of private individuals, corporations, and public agencies which are found to affect the quality of the environment, shall regulate such activities so that major consideration is given to preventing environmental damage, while providing a decent home and satisfying living environment for every Californian. (Public Resources Code Section 21000(g).

B. The CEQA Guidelines provide that CEQA's basic goal of protecting the environment has two purposes:

(1) avoiding, reducing, or preventing environmental damage where possible by requiring alternatives or mitigation measures; and

(2) providing information to decision-makers and the public concerning the environmental effects of proposed and approved actions. (CEQA guidelines 15002(a).)

C. One oft-repeated purpose of the CEQA Guidelines is to provide for public participation, including as set forth in Section 15201:

> Public participation is an essential part of the CEQA process. Each public agency should include provisions in its CEQA procedure for wide public involvement, formal and informal, consistent with its existing activities and procedures, in order to receive and evaluate public reactions to environmental issue related to the agency's activities. Such procedure should include, wherever possible,

[1] Public Resources Code, Sections 21000, *et seq*.

making environmental information available in electronic format on the Internet, on the web site maintained and utilized by the public agency.

D. Although CEQA does not require formal hearings at any state of the environmental review process, section 15202 provides that:

...

(b) If an agency provides a public hearing on its decision to carry out or approve a project, the agency should include environmental review as one of the subjects for the hearing.

(c) A public hearing on the environmental impact of a project should usually be held when the lead agency determines it would facilitate the purposes and goals of CEQA to do so. The hearing may be held in conjunction with and as part of normal planning activities.

...

(f) A public agency may include, in its implementing procedures, procedures for the conducting of public hearings pursuant to this section. The procedures may adopt existing notice and hearing requirements of the public agency for regularly conducted legislative, planning, and other activities.

E. Applications for oil and gas projects under LAMC Section 13.01-H have the potential to create unique risks and hazards to have the potential for significant and immediate impacts on the health, safety, and welfare of the residents in and around the project site through increased noise, odor, dust, traffic, and other disturbances, as well as the potential to significantly impact the City's air, water, soil, biological quality, geology, water, stormwater and wastewater infrastructure, transportation, emergency response plans and other aesthetic values and community resources.

F. People living and working within the land use and environmental impact range of oil and gas operations and activities have a substantial interest in participating in a public hearing on 13.01-H approvals.

G. Section 13.01-H provides authority for the Zoning Administrator to condition, approve or deny a Section 13.01-H application under the City's police powers to protect public health, safety and welfare and to issue and implement reasonable procedures to process Section 13.01-H applications consistent with the requirements for due process.

III. Purpose and Intent of Memorandum

This Memorandum is issued with the following intent:

- Ensure that the City complies with all legal requirements of CEQA in approving Section 13.01-H projects;
- Provide all parties that may be impacted by a project subject to a Section 13.01-H application an opportunity to participate in a public hearing;
- Meet the intent of CEQA in the review and approval of CEQA findings and determinations, to provide adequate public participation;
- Ensure that staff has time to adequately consider and respond to, if necessary, evidence submitted on a Section 13.01-H application and its related environmental findings (including the CEQA Guideline Section 15300.2 exceptions) prior to the issuance of any decision;
- Provide decision-makers and City Staff, and the public with the information and data needed for adequate decision-making under CEQA and Section 13.01-H;
- Ensure that Section 13.01-H applications are processed efficiently;
- Ensure that applicants, staff, and the public can rely on a consistent practice in reviewing Section 13.01-H applications;
- Provide for transparent disclosure and participation process; and
- Ensure that the city's processing and approvals pursuant to 13.01-H will not result in adverse effects to public health, safety, and welfare

IV. Application Requirements

The original case number shall be used for the plan approval request. Before an application may be deemed complete, the applicant must submit:

1) A completed "Land Use Application For Oil & Gas Project Conditional Approval" (CP Form CP-7834) with all required attachments, as specified in the application and the Instructions (CP Form CP-7833.)
2) A completed Environmental Assessment Form for Oil and Gas Projects (EAF-O, CP-7832), with all required attachments.
3) The filing fee pursuant to LAMC Section 19.01.

V. Processing Section 13.01-H Applications

A. CEQA Review

The following review procedures are intended to provide guidelines to implement CEQA on all Section 13.01-H applications. Nothing in this Memorandum or the guidelines provided herein are intended to conflict with CEQA. To the extent that these guidelines are silent or ambiguous, the Zoning Administrator shall fall back on the requirements and intent of CEQA. To the extent that these guidelines impermissibly conflict with CEQA, the provisions of CEQA control. Nothing in these Guidelines is intended to conflict with the Permit Streamlining Act, Gov't Code Section Government Code § 65920 et seq.

1. Preliminary Review for Exemptions

No categorical exemption forms will be processed for consideration or issued at the Planning Department Development Services. The applicant shall submit a complete EAF-O form with their application, which shall be reviewed by the Zoning Administrator. The Zoning Administrator will conduct a preliminary review to determine whether the application qualifies for an exemption from environmental review pursuant to CEQA. The Zoning Administrator may require the applicant to provide additional supporting materials from the applicant to support the use of a categorical exemption.

An application to drill, re-drill, deepen, or convert a well is not eligible for a categorical exemption and shall require an Initial Study or an EIR as described in section V.A.2. All other projects may be reviewed to determine if the project is exempt under any applicable categorical exemption in CEQA Guidelines Section 15300-15333 or any City Guidelines (adopted pursuant to CEQA). If a project is determined not to fall into any categorical exemption based on the project description, an Initial Study shall be prepared pursuant to section V.A.2. If the project falls within a categorical exemption, the Zoning Administrator shall determine if, based upon the whole of the record, any exception to any exemption under CEQA Guidelines, Section 15300.2, applies to the project, including, but not limited to the following:

> Cumulative Impact. All exemptions for these classes are inapplicable when the cumulative impact of successive projects of the same type in the same place, over time is significant.
>
> Significant Effect. A categorical exemption shall not be used for an activity where there is a reasonable possibility that the activity will have a significant effect on the environment due to unusual circumstances.

If the project is determined to be categorically exempt (CE) and no exceptions apply, the Zoning Administrator shall do all of the following:

- Give the public hearing notice required in section V.B., including a notice of an intent to adopt a categorical exemption to all property owners and occupants within a 1,500-foot radius of the project site's outer boundary, and provide for a 35-day comment period on the project, prior to approval. The public hearing may be held during the comment period. The hearing notice (with the notice of intent to adopt a CE) must be provided in English and Spanish.

- If after the 35-day comment period, or any time prior to making a decision on the project, the Zoning Administrator determines that substantial evidence does not support the use of the exemption, including from the existence of an exception in Section 15300.2, the Zoning Administrator shall require an Initial Study to be prepared consistent with the procedures outlined herein.

- Alternatively, if the Zoning Administrator finds after the 35-day comment period, or any time prior to making a decision on the project, that additional information and analysis is required to determine if the categorical exemption is supported with substantial evidence, and the applicant desires the City to use a categorical exemption rather than a prepare an Initial Study, the Zoning Administrator may require the applicant to submit additional information or documents and/or technical studies or reports, including requiring the applicant to hire independent consultants to prepare any necessary technical studies or reports or peer review any prepared studies or reports. If after reviewing any additional documents, reports or studies, required by the Zoning Administrator, it is determined that a categorical exemption is not supported by substantial evidence, an Initial Study shall be prepared.

- If the use of the categorical exemption is supported by substantial evidence in the record at the time of the decision, the Zoning Administrator shall ensure the record contains a memorandum or narrative substantiating the use of the categorical exemption, including explaining how substantial evidence in the administrative record supports the use of the exemption, and that the Zoning Administrator considered whether any exception to an exemption under CEQA Guidelines Section 15300.2 is applicable, including providing where necessary an explanation or evidence to demonstrate that any comments submitted on the intent to adopt the Categorical Exemption do not provide substantial evidence that an exception applies or the exemption does not apply.

2. Initial Study Determination

For any project that does not qualify for a categorical exemption, including any project to drill, redrill, or convert a well, an Initial Study must be completed.

Nothing in this subsection is intended to require the preparation of an Initial Study, when a preliminary review of the project demonstrates an EIR is clearly required, pursuant to CEQA Guidelines Section 15060(d).

The Initial Study must be prepared by an environmental consultant with the qualifications and experience required in this Memorandum. The Zoning Administrator may require the applicant to provide any additional documents, information or technical studies or reports necessary to complete the environmental review of the project, including requiring the applicant to hire an independent contractor to prepare or peer review technical studies or reports. The Initial Study shall comply with Section 15063 of the CEQA Guidelines and be prepared using Appendix G to the CEQA Guidelines and any City issued procedures or guidelines.

If the Initial Study shows both of the following Health Impact Assessment Criteria apply, the Zoning Administrator shall also require a Health Impact Assessment (HIA), as defined in Subsection V.A.5., before preparing the environmental clearance for the project:

- one or more of the air or hazards impact thresholds on Appendix G identified as III(a), III(b), III(d), VIII(a),VIII(b), VIII(c),or VIII(g) are found to be "less than significant impact with mitigation"; and
- the project is within 1,500 feet of any sensitive receptors, as defined by SCAQMD.

After the Initial Study is completed (and the HIA, if necessary), the Zoning Administrator will determine whether the proposed environmental clearance for the proposed project is a Negative Declaration (ND) or a Mitigated Negative Declaration (MND) or whether an EIR is required pursuant to sections 15065 or 15064 of the CEQA Guidelines.

If the Initial Study demonstrates that all of the impact areas will have no impact or less than significant impact, the Zoning Administrator may prepare a ND. (Note: if the Health Impact Assessment Criteria apply, a ND could not be prepared because the Initial Study identified significant impact requiring mitigation.)

If the Initial Study (and the HIA, if required) demonstrates that the project will not result in a significant impact with mitigation imposed, the Zoning Administrator may prepare a MND.

If the Initial Study (and the HIA, if required) demonstrates that the project may result in a significant impact to the environment that cannot be mitigated to less than significant, the Zoning Administrator shall require the preparation of an EIR. In determining whether an EIR is required, the Zoning Administrator shall review and consider all of the following CEQA Guidelines, without limitation to any other applicable requirements of CEQA:

- 15064 (guidelines on determining significant impacts),
- 15064.4 (guidelines on determining greenhouse gas impacts),
- 15064.5 (guidelines on determining cultural and archaeological impacts), and
- 15065 (guidelines requiring consideration of Mandatory Findings of Significance, including subsection (a)(4): "The environmental effects of a project will cause substantial adverse effects on human beings, either directly or indirectly.")

If an ND or MND is issued, the Zoning Administrator shall publish a Notice of Intent to Adopt an ND or MND pursuant to CEQA Guidelines Section 15073, prepare the ND or MND findings (and the Mitigation Monitoring Program for a MND) and process the application pursuant to Section IV. The Public Hearing notice sent in section V.B. will include a statement that the City has published a Notice of Intent to Adopt an ND or MND and include a link to the City's website where the Notice of Intent is published. The Notice of Intent to Adopt an ND or MND shall be published on the City's website in English and Spanish.

If the Initial Study demonstrates the project requires an Environmental Impact Report (EIR), the Zoning Administrator shall follow the procedures in section V.A.3.

3. Environmental Impact Report

If an EIR is to be prepared on a project, in addition to any other requirements of CEQA, the City will require all of the following:

- Provide the Notice of Preparation to all property owners and occupants within a 1,500-foot radius of the project site's outer boundary; and
- Prepare a Health Impact Assessment, as defined in section V.A.5., if not already prepared, and provide a relevant summary of the Health Impact Assessment in the EIR where appropriate to inform the required analysis. The Health Impact Assessment shall be considered in any certification of the EIR and the approval, conditional approval, or denial of the Section 13.01-H application.

An environmental consultant with qualifications and experience provided in section V.A.4 must prepare the EIR. The EIR must be prepared and certified in compliance with CEQA, including but not limited, CEQA Guideline Sections 15080-15097, 15120-15155.

4. Environmental Consultant Qualifications

The City shall ensure that any environmental consultant that is preparing an Initial Study, MND, ND, or an EIR on a 13.01-H project has the following qualifications and experience:

- The Project Manager has at least seven (7) years' experience preparing CEQA documents.
- The Project Manager has prepared and/or reviewed at least five (5) EIRs for projects involving oil and gas drilling or production.
- The consultant or consultant team, including any subcontractors, have demonstrated training, knowledge, and experience in the following topic areas as they specifically relate to oil and gas projects: environmental health, public health, hazardous materials, air quality, GHG emissions, water quality, geology, noise, traffic, aesthetics, and risk and safety issues.
- In the case of EIRs or MNDs requiring Health Impact Assessments, the consultant team, including any subcontractors, has at least five (5) years' experience in preparing Health Impact Assessments. The consultant who prepares the HIA shall be familiar with accepted HIA process and content including, but not limited to, the "Minimum Elements and Practice Standards for Health Impact Assessment," Version 3.

The City shall ensure that all environmental consultants have copies of this Memorandum prior to preparation of any Initial Study, ND, MND or EIR.

5. Health Impact Assessment (HIA)

A HIA is defined as follows:

> A study of the project for the surrounding vicinity identifying pollution and population indicators, such as, but not limited to, those analyzed in the

California Communities Environmental Health Screening Tool; the number of people affected by the project; short term or permanent impacts caused by the project; likelihood that impacts will occur; and recommended mitigation measures.

Any HIA required under these procedures shall be used to inform whether an EIR is required and whether to approve, condition, or deny the application under Section 13.01-H.

B. Public Participation

The Zoning Administrator will hold a public hearing on all Section 13.01 applications prior to project approval.

Notice of this public hearing must be sent to all property owners and occupants within a 1,500-foot radius of the project site's outer boundary, in English and Spanish. For projects being approved with a CE, ND or MND, the Notice of Intent to Adopt a CE, ND or MND may be combined with the public hearing notice.

C. Final Determination

Notices of final decisions will be issued to the applicant, all residents abutting the project site, and all individuals who request such notice.

All Zoning Administrator Section 13.01-H Determinations may be appealed to the Area Planning Commission. The Area Planning Commission decision is final. All CEQA determinations by the Zoning Administrator or the Area Planning Commission are subject to appeal to the City Council pursuant to Public Resources Code Section 21151(c).

Nothing in this Memorandum is intended to limit the Zoning Administrator's express and inherent authority to administer LAMC Section 13.01-H.

LKW:lw

ZA-1989-17683-PA2-1A

EXHIBIT F

Correspondence

Dylan Sittig <dylan.sittig@lacity.org>

Petition Supporting NASE's Appeal in ZA-1989-17683-PA2-1A

1 message

Pico Coalition <picorobertsoncoalition@gmail.com> Mon, Aug 9, 2021 at 9:17 AM
To: Planning APCWestLA <apcwestla@lacity.org>, Dylan Sittig <dylan.sittig@lacity.org>
Cc: andy.shrader@lacity.org, daniel.skolnick@lacity.org, info@cortezie.com, info@katyforla.com, Jacob.haik@lacity.org, jeffebenstein@gmail.com, jimmy.biblarz@gmail.com, joan.pelico@lacity.org, KevinJamesforCA@gmail.com, kmejia@mejiaforcontroller.com, Kristina@kristinairwin.com, Molly Basler <mollybasler@greendreamcampaign.com>, paul.koretz@lacity.org, sam@samyebri.com, scottforla@gmail.com, team@marinatorres.com, teddy@teddykapur.com, tvahedi@aol.com

To the West Los Angeles Area Planning Commission,

Please add the **attached petition with signatures** to the case file for ZA-1989-17683-PA2-1A, concerning the West Pico Drill Site, to be heard by the WLA APC on August 18, 2021..

The petition signers support NASE's appeal to overturn the ZA's ruling.

The text of the petition is copied below. The original with signatures is in the attachment.

Yours,

The Pico Robertson Health and Safety Coalition

cc: Current Office Holders & Candidates Running for City Office in 2022

To: West Los Angeles Area Planning Commission, Elected City Officials, Candidates in 2022 City Elections

Re: WLA APC Appeal Case No ZA-1989-17683-PA2-1A, Supporting NASE's Appeal

501 people have signed a petition on Action Network telling you to Stop Illegal Oil Drilling in the City of Los Angeles.

Here is the petition they signed (SIGNATURES ATTACHED):

> We Support Neighbors for A Safe Environment's (NASE's) Appeal to Overturn the Zoning Administrator's Lawless Decision on the West Pico Drill Site (ZA-1989-17683-PA2-1A)
>
> On June 2, 2021, the Zoning Administrator (ZA) in the Los Angeles Department of City Planning Department issued a ruling that openly declares that illegal oil well drilling at the West Pico Drill Site can stand unaltered, unreviewed, and without remedy. The ZA likewise ruled that numerous other health, safety, and environmental violations of City law and the ZA's own Conditional Use Approval for the drill site do not matter.
>
> The ZA recognized the rampant illegality but ruled that the West Pico Drill Site is and has been in "substantial compliance."
>
> Yes, the ZA said up is down and 2+2=5. He contradicted himself openly and without a fig leaf of embarrassment. He openly declared he did not need to follow City law governing the review of oil drilling and production. His ruling was lawless and illegal.
>
> This is not just a danger to the communities around the West Pico Drill Site, but to all communities around all oil drill sites in the City.
>
> Neighbors for a Safe Environment (NASE) has appealed the ZA's ruling to the West Los Angeles Area Planning Commission. NASE is a local non-profit (501C4) neighborhood organization formed to protect the community from the impacts of oil drilling and production.
>
> • We, the signatories of this petition, support NASE's appeal to overturn the entirety of the ZA's dangerous and illegal decision.
>
> • We call on the West Los Angeles Area Planning Commission to study the case closely and thoroughly, and to preserve its jurisdiction over the case so that it is not rushed into hasty action.
>
> • We call on all elected officials in the City of Los Angeles and all candidates running for elected office to demand that the ZA's ruling be overturned and that the underlying Review of Conditions for the West Pico Drill Site be started again with clear instructions to obey all City and State laws and obligations, including those

that require proper environmental review under the State's CEQA law and the terms of the City's 2001 Settlement Agreement with NASE.

• We insist that illegal actions, illegal oil well projects, and violations of health and safety regulations must be remedied with penalties, increased protections for the community, and equitable measures in the interest of good public policy (such as the plugging of illegal wells and idle wells).

You can view each petition signer and the comments they left you in the attached PDF.

Thank you,

Pico Robertson Health and Safety Coalition

THE ACTION NETWORK

Sent via Action Network, a free online toolset anyone can use to organize. Click here to sign up and get started building an email list and creating online actions today.

Action Network is an open platform that empowers individuals and groups to organize for progressive causes. We encourage responsible activism, and do not support using the platform to take unlawful or other improper action. We do not control or endorse the conduct of users and make no representations of any kind about them.

You can unsubscribe or update your email address or change your name and address by changing your subscription preferences here.

Petition 8-9-21 to stop-illegal-oil-drilling-in-the-city-of-los-angeles-2 SIGNATURES.pdf
177K

West Los Angeles Area Planning Commission; Elected City Officials; Candidates in 2022 City Elections,

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You can view each petition signer and the comments they left you below.

Thank you,

Pico Robertson Health and Safety Coalition

---

1. Karen GL (*ZIP code: 90034)*

2. David Mordecai (*ZIP code: 90035)*

3. Ariela Abugova (*ZIP code: 90210)*
Ariela

4. Ariel Snhe-Zanna (*ZIP code: 90035)*

5. Audrey Arlington (*ZIP code: 90018)*

6. Aaron Kogan (*ZIP code: 90035)*

7. Albert E. Aubin (*ZIP code: 90018)*

8. An anonymous signer (*ZIP code: 90064)*

9. David Abrookin (*ZIP code: 90035)*

10. Robert Helperin (*ZIP code: 90035)*
When will people's health be prioritized over making a buck?

11. Adam Richeimer (*ZIP code: 90035)*

12. Adelle Gross (*ZIP code: 90035)*

13. Ariel Fuhs (*ZIP code: 90035)*
Stop drilling in residential areas!!

14. Aida Shusterman (*ZIP code: 90210)*

15. Alexa Pogue (*ZIP code: 90046)*

16. An anonymous signer (*ZIP code: 90027)*

17. Alfred Adelpour (*ZIP code: 90034)*

18. Amanda Kogan (*ZIP code: 90035)*

19. Armen Markarian (*ZIP code: 90064)*

20. Aliza Hausman (*ZIP code: 90035)*

21. Linda Casale (*ZIP code: 90064)*

22. Alexander Zarcoff (*ZIP code: 90046)*

23. Angela Lee (*ZIP code: 90064)*

24. Angela Venegas (*ZIP code: 90018)*

25. Alisa Reich (*ZIP code: 90066)*

26. Mollie Wine (*ZIP code: 90034)*

27. Ardy Ishal (*ZIP code: 90035)*

28. Aria Zarifpour (*ZIP code: 90035)*
This is not acceptable and needs to be dealt with accordingly.

29. Ariel Robinson (*ZIP code: 90064)*

30. Arleen Weinstock (*ZIP code: 90067)*
We should pay attention to the hazards to humans from urban oil wells.

31. Anat Sadan (*ZIP code: 90211)*

32. Arlene Vinnick (*ZIP code: 90212)*

33. Ava Zarifpour (*ZIP code: 90035)*

34. Avi Hadjyan (*ZIP code: 90035)*

35. Avi Silver (*ZIP code: 91607)*

36. Bradley Morgan (*ZIP code: 90210)*

37. Barbara Dunn (*ZIP code: 90034-1802)*
Stop the illegal oil well drilling at the West Pico Drill Site (9101 & 9151 W Pico Blvd, LA 90035).

Zoning Administrator please stop for our health, safety, and the environment.

38. Barbara Goodhill (*ZIP code: 91423)*

39. Brett Barenholtz (*ZIP code: 90035)*

40. Rebecca Weiss (*ZIP code: 90035)*

41. Rebecca Klempner (*ZIP code: 90035)*
I was shocked to see that although the ZA noted multiple violations of regulations on June 2nd, they ruled that the Pico/Oakhurst oil well can remain in operation. I hope that the West Los Angeles Area Planning Commission overturns this ruling.

42. Bella Essas (*ZIP code: 90035)*

43. Ben Yeroushalmi (*ZIP code: 90212)*

44. Behzad Noorani (*ZIP code: 90034)*

45. Bonnie Siegal (*ZIP code: 90035)*

46. Aaron Biston (*ZIP code: 90035)*

47. Sheryl Winter (*ZIP code: 90034)*
Please stop the illegal drilling in my neighborhood. It is a health hazard and danger to my community.

48. masha schweitzer (*ZIP code: 90035)*

49. brad berger (*ZIP code: 90035)*

50. Bradley Caro Cook (*ZIP code: 90210)*
STOP IT NOW!

51. Bracha Tashman (*ZIP code: 90035)*

52. Brittany Domb (*ZIP code: 90035)*

53. Brooke Korda (*ZIP code: 90035)*

54. Bryan Chustckie (*ZIP code: 90035)*
STOP THIS DAMAGE AT ONCE! DO IT SOMEWHERE NOT AROUND PEOPLE

55. Bryan borenstein (*ZIP code: 91356)*

56. Brian Schwartz (*ZIP code: 90034)*

57. Sheldon Kasdan (*ZIP code: 90035)*

58. Shoshana Stroll (*ZIP code: 90035)*

59. William Korn (*ZIP code: 90035)*

60. Barbara Zuckerman (*ZIP code: 90035)*
This illegal oil drilling activity should not be allowed in a primarily residential neighborhood that is impacting the health and safety of the residents. This activity should be stopped immediately.
Barbara Zuckerman

61. Caroline Golian (*ZIP code: 90034)*

62. Charlie Carnow (*ZIP code: 90035)*

63. Carol Rivera (*ZIP code: 90019-4544)*
Drilling should not be near residential areas.

64. Cary Buchman (*ZIP code: 90035)*

65. Cate Silberstein (*ZIP code: 91343)*

66. Christine Carlson (*ZIP code: 90018)*

67. Christine Carlson (*ZIP code: 90018)*

68. Emanuel Taitz (*ZIP code: 90035)*
PLEASE STOP THIS . TOXIC POLLUTION NEEDS TO OUTLAWED IN LOS ANGELS!

69. Susan Clair (*ZIP code: 90018)*

70. Chanah Kaufman (*ZIP code: 90036)*

71. Chana Thaler (*ZIP code: 90035)*

72. Chava Shervington (*ZIP code: 90035)*

73. An anonymous signer (*ZIP code: 90018)*

74. Cherie Goldwag (*ZIP code: 90035)*

75. Cherie Lewis (*ZIP code: 90035)*

76. Christina Thau (*ZIP code: 90064)*

77. Cindy Kaplan (*ZIP code: 90035)*

78. Christal Khatib (*ZIP code: 90064)*

79. Claire Grieve (*ZIP code: 90035)*

80. Christine Vidovich (*ZIP code: 90731)*

81. Cindy Steinschriber (*ZIP code: 90035)*

82. Colleen Hellige (*ZIP code: 90035)*

83. Cara Grossman (*ZIP code: 90035)*

84. Craig Rutenberg (*ZIP code: 90064)*

85. Carmen Sanchez Sadek (*ZIP code: 90034-3406)*
We are in 2021, I think!!!!! ENOUGH!!!!!!!! WE MUST THINK about the F U T U R E!!!!! My children & grandchildren -- ENOUGH!!!!!!!!

86. Melissa Haddad (*ZIP code: 90064)*

87. Tashia Jenkins (*ZIP code: 90035)*
Why hasn't this oil drilling site been inspected to confirm it does not pose an environmental or safety risk to the people who live and work in the area. How can we be assured that their will not be a gas explosion if no one from the government inspects these oil drilling site? There are times when stench of gas in the neighborhood around the drill site is overpowering. PLEASE INSPECT ALL THESE DRILLING SITES!!!

88. Dennis aoki (*ZIP code: 90025)*
It looks like LA politicians have been bought off again!

89. Debora Barney (*ZIP code: 89144)*

90. Dalia Yasharpour (*ZIP code: 90034)*

91. Dali Gandara (*ZIP code: 90212)*

92. Danielle Prunier (*ZIP code: 90064)*

93. Danielle Lewis (*ZIP code: 90035)*

94. Daun St. Amand (*ZIP code: 90064)*

95. David Herskovitz (*ZIP code: 90034)*
I oppose ongoing drilling at the Pico location on the current basis.

96. David Leifer (*ZIP code: 90405)*
Our health and that of our neighbors in our community should be our first priority. No one should be allowed to poison our environment

97. Dean Weiss M.D. (*ZIP code: 90035)*

98. Deborah Fellman (*ZIP code: 90035)*

99. Debra Segura (*ZIP code: 90035)*

100. Devora Ebriani (*ZIP code: 90036)*

101. Dina Spivak (*ZIP code: 90212)*

102. Daniella Alyeshmerni (*ZIP code: 90035)*

103. David Klass (*ZIP code: 90212)*

104. Devorah Leah Wagshul (*ZIP code: 90035)*
My kids school across street and not safe

105. Deborah Marciano (*ZIP code: 90035)*

106. David Weiss (*ZIP code: 90035)*

107. Daniel Vinson (*ZIP code: 90211)*

108. Sarah Miller (*ZIP code: 90212-3540)*

109. Doug Schiller (*ZIP code: 90035)*
Enough already... is it too much to ask to enforce the law

110. denise anavim (*ZIP code: 90035)*

111. Dianne Lawrence (*ZIP code: 90018)*
Unbelievable!!!!

112. Dr. Mha Atma S Khalsa (*ZIP code: 90035)*

113. Sarah Eisenberg (*ZIP code: 91367)*

114. Eitan Shimonovitz (*ZIP code: 90064)*

115. Elaine S Kamil MD (*ZIP code: 90064)*

116. Elaine Becker (*ZIP code: 24018)*
This is insanely dangerous for nearby residents!

117. ElishevaRina Aufrichtig (*ZIP code: 90035)*

118. Ellen Doyle (*ZIP code: 90064)*

119. Benjamin Elterman (*ZIP code: 90035)*

120. Emberly Modine (*ZIP code: 90018)*

121. Enya Katz (*ZIP code: 90035)*

122. Eric Schwartz (*ZIP code: 90035)*

123. Esther Plotke (*ZIP code: 90004)*

124. Ezra Pollak (*ZIP code: 90035)*

125. Faith Schames (*ZIP code: 90035)*

126. Aviva Miriam Notowitz (*ZIP code: 90035)*

127. Daniel Braum (*ZIP code: 90035)*
Why are you not doing your job?

128. L P Felton (*ZIP code: 90064)*

129. Amy Phillips (*ZIP code: 90212)*

130. Tzofiya Bookstein (*ZIP code: 90035)*

131. Kamran Zarifpour (*ZIP code: 90035)*
This disregard for our community's health and safety needs to be addressed.

132. Greg Austin (*ZIP code: 90064)*

133. Gavin Abercrombie (*ZIP code: 90018)*

134. Gavriel Shalom Kollin (*ZIP code: 90035)*
Nu!

135. Grace Kamins (*ZIP code: 90034)*
Keep me informed re hearings and meetings. Thanks for bringing this to my attention.

136. GEOFFREY GEE (*ZIP code: 90064)*

137. gilat englanoff (*ZIP code: 90035)*

138. Gina Thornburg (*ZIP code: 91364)*

139. Jeff Gluck (*ZIP code: 90034)*
No more illegal oil drilling!

140. WARREN GOLDSTONE (*ZIP code: 90035)*

141. Gabriel (*ZIP code: 90035)*

142. GARY ZELCER (*ZIP code: 90064)*

143. Hannah Nelson (*ZIP code: 90035)*

144. Marc Morrison (*ZIP code: 90035)*

145. Heather Frenner (*ZIP code: 90212)*

146. Helene Korn (*ZIP code: 90064)*

147. Danya Helperin (*ZIP code: 90035)*

148. Hillel Aufrichtig (*ZIP code: 90035)*

149. Elana Aufrichtig (*ZIP code: 90035)*

150. Henry Morgen (*ZIP code: 90019-2550)*

151. Henry Lear (*ZIP code: 90005)*

152. honey eliasi (*ZIP code: 90035)*

153. Hunter Ochs (*ZIP code: 90018)*

154. Kim Genelle (*ZIP code: 90018)*

155. Ian Dawson (*ZIP code: 90034)*
I have no issue with legal oil well drilling. But, having found out that no oversight, review, penalties or safeguards by either the Zoning Administration or the LA Department of City Planning has occurred over the last few decades, requires public action and intervention to make the city do their legal job to protect citizens. Those that have ignored the law should be fired immediately and all drilling should stop until all wells are reviewed by an independent auditor, and only then can drilling permits be re-issued.

156. Ivan kamil (*ZIP code: 90064)*

157. Ilona Razhavsky (*ZIP code: 90035)*

158. Shari Rosemblat (*ZIP code: 90035)*
Fix it now

159. Isaac Midgen (*ZIP code: 90035)*

160. Shlomi Ronen (*ZIP code: 90034)*

161. PATRICIA Reed (*ZIP code: 90035-4621)*
This is ridiculous, the city officials are out of touch with the taxpaying citizens....

162. Irene Clark (*ZIP code: 90035)*

163. sanya ilich (*ZIP code: 90212)*
health, safety, and environment are the most important. Please stop oil drilling in Los Angeles county

164. Mark Israel (*ZIP code: 90064)*
Any oil drilling in the city is absurd. Illegal drilling must not be permitted.

165. Jacklin Zarifpour (*ZIP code: 90035)*

166. Jonathan Lewis (*ZIP code: 90064)*

167. Janet Gilmore (*ZIP code: 90034)*

168. jason ciment (*ZIP code: 90035)*

169. Jeff Astrof (*ZIP code: 90034)*

170. Jacob Pelta (*ZIP code: 90035)*

171. Jonah Kasdan (*ZIP code: 90035)*

172. Hsiuju Shen (*ZIP code: 90034)*

173. Jeff Goldman (*ZIP code: 90034)*

174. Jay Summers (*ZIP code: 90035)*

175. Jenny Porter (*ZIP code: 90035)*

176. jenny mogen (*ZIP code: 90019)*

177. Jeremiah Krickhahn (*ZIP code: 90018)*

178. Jeremy Mittman (*ZIP code: 90034)*

179. An anonymous signer (*ZIP code: 90019)*

180. Judy Kravitz (*ZIP code: 90035)*

181. Jill Seidel (*ZIP code: 90035)*
This makes no sense at all!
I would like to know how much he is financially benefiting from this. Unbelievable that public safety does not come first. He should be held accountable

182. Jimmy Biblarz (*ZIP code: 90048)*

183. Susan Ulmer (*ZIP code: 90064)*

184. RJ Roth (*ZIP code: 90066)*

185. Yonatan I Levinger (*ZIP code: 92109)*

186. Jean Markarian (*ZIP code: 90064)*

187. Judy Pollick (*ZIP code: 90035)*

188. John Vidovich (*ZIP code: 90731)*

189. JONATHAN KOHANOFF (*ZIP code: 90211)*
Please sign!

190. Jenny Jones (*ZIP code: 90034)*

191. Joanne Krevoy (*ZIP code: 90035)*

192. Joshua Louis (*ZIP code: 90048)*

193. Josh Grossmsn (*ZIP code: 90035)*

194. Benson Simmonds (*ZIP code: 90035)*

195. Joshua Papernik (*ZIP code: 90035)*

196. Jun Park (*ZIP code: 90006)*
Aria!

197. John Newman (*ZIP code: 90064)*

198. James Rothman (*ZIP code: 90503)*
I own a house in Beverlywood that could be negatively impacted.

199. Janet Robin (*ZIP code: 90035)*
I live 3 buildings from it! They need to shut it down.

200. Jeff Selick (*ZIP code: 90035)*

201. Judie Brodeur (*ZIP code: 90034)*
Ensure the health and safety of LA residents by requiring inspections and compliance with city codes.

202. Jacob Toubi (*ZIP code: 90035)*

203. Judith Kaplan (*ZIP code: 10024)*

204. Judith Siegel (*ZIP code: 90064)*

205. Judith Hantman (*ZIP code: 90024)*

206. JUDY STERN (*ZIP code: 90064)*

207. Julian Klotz (*ZIP code: 91411)*

208. Julia Berger (*ZIP code: 90035)*

209. Julie Goodman (*ZIP code: 90404)*

210. Julie Klein (*ZIP code: 90066)*

211. Ron Bieber (*ZIP code: 90211)*

212. Neda Loghmana (*ZIP code: 90211)*

213. Karen Antholis (*ZIP code: 90035)*
The City is supposed to protect the health of its citizens! It is appalling the my family has unknowingly been exposed to this pollution for years. The City must remedy this situation as soon as possible and make amends for the potential harm caused.

214. Karen Feinberg (*ZIP code: 90034)*
High time to get rid of this oil well and others like it here in the City. There is a reason we have CEQA on the books. It is time to enforce the regulatory laws

215. Diane Karrel (*ZIP code: 90034)*
On June 2, 2021, the Zoning Administrator issued a ruling that declares oil well drilling at the West Pico Drill Site can stand unaltered, unviewed, and unremedied. We strongly oppose this ruling and support the appeal by Neighbors for a Safe Environment.

216. Serin Bohorodzaner (*ZIP code: 90035)*
I am elderly and live 2 blocks away.

217. Kate Baskins (*ZIP code: 95864)*

218. ERIC KAUFMAN (*ZIP code: 90212)*
I'm a property owner on Oakhurst one block up in Beverly Hills with oil rights. I support drilling, provided such complies with all health and safety restrictions and is done so in a manner that is 100% compliant with all applicable laws.

219. Kelly Freedman (*ZIP code: 90034)*

220. Karen Fisher (*ZIP code: 90035)*

221. Kimberly Bastin (*ZIP code: 90035)*

222. Kimberly Michener (*ZIP code: 90018)*

223. Kingsley Smith (*ZIP code: 90064)*

224. Faye Lee (*ZIP code: 90064)*

225. Kevin Opos (*ZIP code: 90035)*

226. Kenneth Mejia (*ZIP code: 90017)*
No more green-lights for illegal oil drilling in the City of LA!

227. Aaron Korda (*ZIP code: 90035)*

228. Kristina Irwin (*ZIP code: 90077)*

229. Franchon McIntyre (*ZIP code: 90064)*

230. Damian Lang (*ZIP code: 90069)*

231. Laura Kleinhenz (*ZIP code: 90066)*

232. Laura Behary (*ZIP code: 90034)*

233. Lauren Linde (*ZIP code: 90064)*

234. Lauren Goldner (*ZIP code: 90035)*

235. Laurie Fox (*ZIP code: 90064)*

236. Loren Papernik (*ZIP code: 90035)*

237. Linda Broder (*ZIP code: 90035)*
Little Mom and Pop shops can't get away with anything, but oil companies free reign. This is not acceptable.

238. leigh greenberg (*ZIP code: 90035)*

239. Louis Elfman (*ZIP code: 90018)*

240. Leora Nam (*ZIP code: 90034)*
Please stop the drilling it is dangerous to the health of the community

241. Leslie Kessler (*ZIP code: 90034)*

242. Joshua Levine (*ZIP code: 90036)*

243. lauren hollingsworth (*ZIP code: 90034)*

244. Linda M (*ZIP code: 90018)*

245. Teri Cohan Link (*ZIP code: 90034)*

246. Lisa Friedman (*ZIP code: 91301)*

247. Lisa Schurga (*ZIP code: 90018)*

248. Elaine Livesey-Fassel (*ZIP code: 90064)*
My family and I agree that Oil Well Drilling in the City of Los Angeles must END/STOP if it is deemed ILLEGAL!

249. Elizabeth Steinlauf (*ZIP code: 90210)*

250. Elizabeth McDowell (*ZIP code: 91423)*

251. Leslie McDowell (*ZIP code: 90035)*

252. Luis Martinez (*ZIP code: 90018)*

253. Michael Logan (*ZIP code: 90025)*
Do not endanger our community!

254. Loreta Azarian (*ZIP code: 90024)*

255. Lorey Zlotnick (*ZIP code: 90034)*

256. Lisa Shura (*ZIP code: 90312)*

257. Louise Briggs (*ZIP code: 90212)*

258. Louise Goldwire (*ZIP code: 90018)*

259. Kenneth Lowenstein (*ZIP code: 44122)*

260. Lisa Pompan (*ZIP code: 90064)*

261. Lindsay Shea (*ZIP code: 90064)*

262. Lynda A Levy (*ZIP code: 90064)*
Embarrassment of riches but please keep drinking away from our special community. Transparency is

critical and this must stop

263. Madlen Tabibnia (*ZIP code: 90064)*

264. Mali Elfman (*ZIP code: 90018)*

265. Amanda Newstead (*ZIP code: 90035)*

266. Marc Freeman (*ZIP code: 90014)*
No oil drilling in residential, schools, houses of worship

267. Marcia Glaser (*ZIP code: 90034)*

268. Marilyn Greenberg (*ZIP code: 90035)*

269. Mark Waxman (*ZIP code: 90035)*

270. MARTIN KLEIN (*ZIP code: 90034-1802)*
Stop the illegal oil well drilling at the West Pico Drill Site (9101 & 9151 W Pico Blvd, LA 90035).

Zoning Administrator please stop for our health, safety, and the environment.

271. Matt Lincir (*ZIP code: 90732)*

272. Estela Zarate (*ZIP code: 90018)*

273. Mildred Rothschild (*ZIP code: 90035)*

274. Michael Fischer (*ZIP code: 90291)*

275. Melvyn Nefsky (*ZIP code: 90064)*

276. Eitan Melamed (*ZIP code: 90035)*

277. Maia Lefferman (*ZIP code: 90035)*

278. Melissa Kent (*ZIP code: 90034)*

279. Michael Saltzman (*ZIP code: 90034)*

280. Marina Moevs (*ZIP code: 90018)*

281. Mia Reback (*ZIP code: 90035)*

282. Michael Borkow (*ZIP code: 99034)*

283. Michal Shechtman (*ZIP code: 90016)*

284. Michael Reinis (*ZIP code: 90035)*

285. Michel Rafi (*ZIP code: 90035)*
The oil drilling site is too close to our residential area, just a block away, and next to a school with small children, it should be moved out of this area or strictly monitored.

286. andreia minasian (*ZIP code: 90034)*

287. Miriam Goldberg (*ZIP code: 90035)*

288. Mitchell Gross (*ZIP code: 90064)*

289. Matthew Lefferman (*ZIP code: 90035)*

290. Mehry Sepanlou (*ZIP code: 90210)*

291. Maureen Krantz (*ZIP code: 90035)*
Illegal drilling is dangerous for residents! Please stop it!

292. Molly Basler (*ZIP code: 90036)*
I stand for Clean Renewable Energy for the CITY OF Los Angeles. I am completely on board with the coalition to STOP Oil DRILLING IN LOS ANGELES and immediately close down Oil Drilling that is ILLEGAL.
Thank you for standing g up to BIG OIL!
Onward together!

293. MICHAEL MORA (*ZIP code: 90213)*

294. Mark Samara (*ZIP code: 90034)*

295. Melinda Smith Altshuler (*ZIP code: 90034)*

296. Michael Goldstein (*ZIP code: 90064)*
This ruling is an outrageous assault on the wellbeing of the people who live in this community, especially the young, the elderly, and those with serious existing health conditions. It is up to our elected representatives to make sure that the law and common sense are upheld.

297. Maureen Eisenberg (*ZIP code: 90035)*
Clean and safe energy starts at home. Considering the push for clean energy why be the on the wrong side of history by not adhering to safety limits in the center of an ever increasingly dense neighborhood. The correct action would be to totally shut down this facility due to its location.

298. Musi Abend (*ZIP code: 90036)*

299. Molly Shadpour (*ZIP code: 90034)*
This should be illegal. It's harming our community

300. Mark Shmagin (*ZIP code: 90035)*
I would like this facility to be shut down or severely limited.

301. Nadiya Leichtman Levine (*ZIP code: 90035)*

302. An anonymous signer (*ZIP code: 90064)*

303. Nancy Lichtenstein (*ZIP code: 90064)*
Stop illegal oil drilling in our city in our area codes 9101 and 9151 W. Pico Blvd., L.A. 90035

304. Natalie Ravanshenas (*ZIP code: 90035)*

305. Niloo Eizenberg (*ZIP code: 9035)*

306. Nancy Knupfer (*ZIP code: 90034)*
Please stop illegal drilling in our area! I frankly would prefer if they would stop all drilling!!!

307. Nora Rafi (*ZIP code: 90035)*

308. Norma Sanchez (*ZIP code: 90064)*

309. Nello Torri (*ZIP code: 90064)*

310. Neal Steiner (*ZIP code: 90034-1841)*

311. Ines Ware (*ZIP code: 91367)*

312. Olga Lexell (*ZIP code: 90035)*
I'm on the SORO NC Land Use committee

313. Rosa Corado (*ZIP code: 90018)*

314. Oren Hassidim (*ZIP code: 90035)*

315. Joanne Helperin (*ZIP code: 90035)*

316. Pamela White (*ZIP code: 90035)*

317. Parmer Fuller (*ZIP code: 90064)*

318. Parnaz Mansouri (*ZIP code: 90064)*

319. Paula Gild Stern (*ZIP code: 90024)*

320. Paul Aronoff (*ZIP code: 90064)*
Too dangerous if accidents occur.

321. Paul Hockley (*ZIP code: 90064)*
Close down W Pico and Rancho Park sites. They're dangerous to our health and a disaster waiting to happen!

322. Larry Eisenberg (*ZIP code: 90035)*

323. Pesach Chananiah (*ZIP code: 90019)*

324. Peter Steinlauf (*ZIP code: 90210)*

325. Liberti Montez (*ZIP code: 92020)*

326. Paul Williams (*ZIP code: 90035)*

327. Joshua Pretsky (*ZIP code: 90035)*

328. Paula Waxman (*ZIP code: 90035)*

329. Courtney Mizel (*ZIP code: 90035)*

330. Queen Sika Shone Harris (*ZIP code: 90802)*

331. Kathleen Noone (*ZIP code: 90034)*

332. Rabbi Muskin (*ZIP code: 90035)*

333. Yonah B (*ZIP code: 90035)*
The City is breaking the law and we are all in danger.

334. Rachel Bookstein (*ZIP code: 90035)*

335. Rachel Malk (*ZIP code: 90035)*

336. Rae Drazin, PhD (*ZIP code: 90035)*

337. Rose Aguero (*ZIP code: 90035)*

338. Rashelle Zelaznik (*ZIP code: 90064)*

339. Rebecca Mittman (*ZIP code: 90034)*
stop illegal oil well drilling! This site is adjacent to my childrens' school

340. DonnaAnn Ward (*ZIP code: 90018)*
Why does the City of LA continue to allow the safety and security of Angelinos to be second to oil and gas interests? California is supposed to lead the world in new technology and clean solutions. Why does the City of LA fail us at every point in the battle to get off fossil fuels? Follow the money.

341. Richard Horowitz (*ZIP code: 90210)*

342. Riley James (*ZIP code: 60657)*

343. Rivka Weinberg (*ZIP code: 90035)*

344. Roger Kulbe (*ZIP code: 90064)*
Drill baby, drill! Gas is way too expensive in CA (thanks to all the excessive taxes)

345. Roberta Golden (*ZIP code: 90035)*

346. Robert Finkel (*ZIP code: 90035)*

347. Robin Sax (*ZIP code: 90064)*

348. Linda Rohatiner (*ZIP code: 90035)*
I live within a quarter mile of the oil rig on Pico and Doheny and feel very unsafe especially since it is not checked regularly.

349. Steven Rowe (*ZIP code: 90018)*
Please stop all oil drilling in the City Of Los Angeles

350. Julie May (*ZIP code: 90034)*

351. Richard May (*ZIP code: 90034)*

352. Linda and Richard Weiner (*ZIP code: 90035)*
The ZA’s ruling was so full of inaccuracies and reached so many erroneous conclusions, that this appeal is appropriate and necessary.
Linda and Richard Weiner

353. Leslie Hal (*ZIP code: 90064)*

354. Adrianne Sachs (*ZIP code: 90035)*

355. Yoram Saghian (*ZIP code: 90034)*

356. Michael Salman (*ZIP code: 90018)*

357. Sam Yebri (*ZIP code: 90024)*
I am a candidate for Los Angeles City Council to represent CD5, have 4 children who attend school within a few blocks of the illegal Pico Doheny oil sites, and strongly support NASE's appeal.

358. Sam Glaser (*ZIP code: 90034)*

359. Sandra Luna (*ZIP code: 90006)*

360. Jonathan Sanford (*ZIP code: 90018)*

361. Sara Halpern (*ZIP code: 90035)*

362. Sarah Wintner (*ZIP code: 91316)*

363. Saran Kirschbaum (*ZIP code: 90035)*
I live near the oil well near me and found out there is an earthquake fault down Pico and Robertson. Where will that oil go? to my house just a few blocks away?
Review NOW and close it down before a quake happens.

364. Hadas Laureano (*ZIP code: 90035)*

365. Jennifer Savitsky (*ZIP code: 90035)*

366. Sholom Efune (*ZIP code: 90036)*
There is literally a sign on the building that says dangerous can cause reproductive harm. And this is a building directly across an all girl elementary school. How is this legal?

367. Silvia Cooper (*ZIP code: 90064)*

368. Sharon Fishman (*ZIP code: 90035)*

369. Scott Silver (*ZIP code: 90064)*

370. Suellen Mayfield (*ZIP code: 90291-3942)*

371. Luis Martinez (*ZIP code: 90018)*

372. Seth Glass (*ZIP code: 90035)*

373. Sandra Ghatan (*ZIP code: 90211)*

374. MEHRAN SHALIEH (*ZIP code: 90034)*

375. Ammar Amjad (*ZIP code: 90034)*
Stop oil drilling!

376. Shane Block (*ZIP code: 90035)*

377. Sharon Saks (*ZIP code: 90035)*

378. Sharon Silver (*ZIP code: 90035)*

379. H D (*ZIP code: 90035)*

380. Shawni Astrof (*ZIP code: 90034)*

381. Denise Mordecai (*ZIP code: 90036)*
Please protect the community.

382. Shelli B (*ZIP code: 90034)*

383. sherry jones (*ZIP code: 90034)*
Stop killing our earth

384. Shimon Weiss (*ZIP code: 90034)*

385. Shuki Greer (*ZIP code: 90035)*
It is appalling that this is allowed right in the heart of our neighborhood. If not for the abundant oil that these drillers have with which to slick their hair back and slide into politicians pockets, this would have been closed down years ago. In this age of conscious consumerism, we must get up to speed on this antiquated danger in our community.

386. Sigal Bar-Tal (*ZIP code: 90212)*

387. R T (*ZIP code: 90049)*

388. Bonnie Silverman (*ZIP code: 90034)*

389. Sivan Lasman (*ZIP code: 90035)*

390. Carrol Fenigstein (*ZIP code: 90034-1028)*

391. Susan Haymer (*ZIP code: 90046)*
Save the Planet Please.

392. Sally Maslon (*ZIP code: 90066)*

393. Sherry Saffer (*ZIP code: 90064)*

394. Susan Nachimson (*ZIP code: 90035)*

395. Julianne Sobel (*ZIP code: 90035)*
People in the area have autoimmune diseases and cancer at higher than normal rates.

396. Jennifer Malvin (*ZIP code: 90035)*
Jennifer Malvin

397. Sophie Melamed (*ZIP code: 90035)*

398. Jeffrey Handel (*ZIP code: 90035)*

399. Steven Peckman (*ZIP code: 90018)*

400. stacy brooks (*ZIP code: 90034)*

401. Constance St Amand (*ZIP code: 90064)*
Please stop illegal oil drilling.

402. Steven Kreitenberg (*ZIP code: 90035)*

403. Steven Fried (*ZIP code: 90035)*

404. Susan Smith (*ZIP code: 90035)*

405. Susan Silver (*ZIP code: 91607)*
No more oil drilling in LA!!

406. Suzanne Gehl (*ZIP code: 90064)*

407. Steve Zlotnick (*ZIP code: 90034)*

408. Amy Thogmartin (*ZIP code: 90064)*

409. Jessica B (*ZIP code: 90034)*

410. Alexis Nagler (*ZIP code: 90212)*

411. Ian Goodwin (*ZIP code: 90018)*
Oil is antiquated technology, it's time to evolve!

412. Eduardo Zetina (*ZIP code: 90018)*
The City must stop being lenient to large corporations at the expense of the local communities..every life matters.

413. Tuvia Korobkin (*ZIP code: 90035)*

414. Thomas Kun (*ZIP code: 90064)*

415. robert tomlinson (*ZIP code: 90034)*

416. Tova Zakaria (*ZIP code: 90048)*
My kids go to school across the street. The drilling puts them at risk

417. Tracey Jacoby (*ZIP code: 90069)*

418. David Vahedi (*ZIP code: 90034)*
Thank you for protecting our community!

419. Jennifer Kasten (*ZIP code: 90035)*

420. Susan Kaplan (*ZIP code: 11230)*

421. claudine sokol (*ZIP code: 90034)*

422. Moody Makar (*ZIP code: 90064)*

423. Andre Vanderhal (*ZIP code: 90064)*

424. Chava Vargas (*ZIP code: 90035)*

425. Vaughan Meyer (*ZIP code: 90064)*
These companies must comply with City laws! And the City must undertake reviews as required by City law.

426. Virginia P. Bland (*ZIP code: 90043)*

427. Niomi Martinez (*ZIP code: 90018)*

428. Niomi Martinez (*ZIP code: 90018)*

429. Victoria Miriam Chinn (*ZIP code: 91030)*
I am concerned about the safety of the Pico-Robertson neighborhood.

430. Victoria Roizen (*ZIP code: 90064-3313)*
Stop the drilling immediately to prevent future lawsuits.

431. Vladimir Rivera (*ZIP code: 90019)*

432. Vladimir Roizen (*ZIP code: 90064)*

433. Nancy GOLDSTONE (*ZIP code: 90035-3329)*

434. Warren Klein (*ZIP code: 90064)*

435. WALTER RIVERS, JR (*ZIP code: 90006)*

436. Ramona Tizabi (*ZIP code: 90035-1118)*

437. Joseph Bellinger (*ZIP code: 90035)*

438. Yael A (*ZIP code: 11367)*

439. Yardenna Hurvitz (*ZIP code: 90025)*

440. Stephen Yenser (*ZIP code: 90064)*

441. Yagil Tsaidi (*ZIP code: 90035)*

442. Nicholas Jacobs (*ZIP code: 90035)*

443. Yonaton Rosenzweig (*ZIP code: 90034)*

444. Zavanna Negron (*ZIP code: 90013)*

445. Shereen McDade (*ZIP code: 90018)*

446. Aimee Zeltzer (*ZIP code: 90211)*
Aimee Zeltzer

447. Zisa Meyers (*ZIP code: 90038)*

Dylan Sittig <dylan.sittig@lacity.org>

ZA-1989-17683-PA2-1A, supporting NASE's appeal

Katy for LA City Council <info@katyforla.com> Mon, Aug 9, 2021 at 1:00 PM
To: apcwestla@lacity.org, dylan.sittig@lacity.org
Cc: Michael Salman <salman@history.ucla.edu>, Rabbi Yonah Bookstein <rabbiyonah@gmail.com>

To the Members of the West Los Angeles Area Planning Commission:

I am writing to strongly urge you to grant Neighbors for A Safe Environment's (NASE) appeal of the 6/2/21 Zoning Administrator (ZA) ruling. You have an excellent opportunity to protect public health and end Pacific Coast Energy Company's (PCEC) egregious conduct at the West Pico Drill Site, and you should take it.

PCEC has been engaged in ongoing, egregious violations at the West Pico Drill Site for years. In fact, PCEC explicitly admitted in its 6/19/20 letter to the ZA that it violated multiple sections of the Los Angeles Municipal Code by failing to comply with the City Code and CEQA. The ZA, for its part, has also recognized its own failure to comply with the City's own environmental review policies. Despite these admissions by both the site operator and the City's ZA, the ZA has decided to allow this unsafe and reckless oil drilling use to continue in the middle of a dense residential neighborhood. This result is dangerous - not only because of the potentially harmful public health impacts that PCEC's activities have on the surrounding neighborhoods, but also because it tells oil well operators across the City that they can ignore the City Code, ZA assigned conditions, the California Environmental Quality Act, and the ZA's own policies on environmental review with impunity.

You have an opportunity to legally terminate a use that is harmful to the health of the community, while at the same time making clear that violations of oil well operating permits will not be tolerated. As an environmental and land use attorney and a long-time area resident and LA City Council candidate running to represent the surrounding community, I urge you to seize the once-in-a-generation opportunity before you and choose to put our community's health first.

Sincerely,

Katy Young Yaroslavsky
Candidate for LA City Council District 5

Dylan Sittig <dylan.sittig@lacity.org>

Case No. ZA-1989-17683-PA2-1A; Supporting NASE's Appeal

1 message

Scott Epstein <scott@scottforla.com> Sun, Aug 8, 2021 at 10:13 PM
To: apcwestla@lacity.org, dylan.sittig@lacity.org
Cc: salman@history.ucla.edu, rabbiyonah@gmail.com

Dear West Los Angeles Area Planning Commission Members:

I write in strong support of NASE's appeal of the 6/2/21 Zoning Administrator ruling. The ZA decision is nonsensical on a number of fronts, and sets a very dangerous precedent for our city. It must be overturned.

The ruling states that Pacific Coast Energy Company is in full compliance, despite the fact that the company underwent 25 different unpermitted projects at the site (as admitted by PCEC in their own 6/19/20 letter and as detailed in the Department of City Planning's staff report). The ruling grants a Categorical Exemption (CE) from environmental review, despite the fact that ZA Memorandum 133 expressly prohibits the granting of CEs for projects drilling, re-drilling, or conversion of oil wells.

In short, the ruling is shocking. Not only does it fail to require any actions in response to the unpermitted projects, but it rewards PCEC's illegal conduct with the type of exemption applied to benign projects like adding signage or building a bike path.

Oil drilling in close proximity to residences is exactly the kind of use from which CEQA was designed to protect the public. The 6/2/21 ruling refuses to provide any new protection for stakeholders in Pico-Robertson. It also encourages lawlessness by other well operators. As a candidate running to represent a district with one of the highest concentrations of oil wells in the city, I am deeply concerned about the precedent this ruling would set if it is allowed to stand. I ask that you protect Angelenos by overturning this decision.

Sincerely,
Scott Epstein
Candidate for LA City Council District 5

July 25, 2021

Michael Newhouse, President
Lisa Waltz Morocco, Vice President
Alexis Laing, Commissioner
Esther Margulies, Commissioner
Adele Yellin, Commissioner
West Los Angeles Area Planning Commission
Los Angeles City Hall
200 N. Spring Street
Los Angeles, CA 90012
apcwestla@lacity.org

Re: Case No. ZA-1989-17683-PA2-1A; Supporting NASE's Appeal

Dear Commissioners:

My name is Sam Yebri. I am a concerned resident, business owner, and father of four young children who attend school blocks near the oil and gas wells operating at 9101 and 9151 W. Pico Blvd., Los Angeles, CA 90035 (the "West Pico Drill Site"). I am also a former Los Angeles City Commissioner and candidate for Los Angeles City Council to represent the 5th District. I am writing to express my strong support for the appeal filed by Neighbors for A Safe Environment ("NASE") requesting that the West Los Angeles Area Planning Commission overturn the Zoning Administrator's ("ZA") decision regarding the West Pico Drill Site (Case No. ZA-1989-17683-PA2-1A).

The ZA's June 2, 2021 Letter of Determination (the "LOD") correctly noted that the operator of the West Pico Drill Site was in violation of several conditions imposed by the Board of Zoning Appeal, fire, life, and safety violations regulations of the Los Angeles Fire Department, and the terms of a Settlement Agreement that the City of Los Angeles entered into with NASE in 2001 (the "2001 Settlement Agreement"). Yet, despite these substantial and blatant violations, the LOD – without valid justification or meaningful explanation – concluded that the West Pico Drill Site was in "substantial compliance" with all city and state laws.

The LOD must be overturned. As set forth in detail in NASE's appeal, the LOD is filled with internal contradictions and legal and factual errors. Moreover, in effect, the LOD ruled that illegal oil well drilling near our homes, schools, and houses of worship may continue unabated, un-inspected, and without consequence. This ruling endangers neighboring residents and sets a dangerous precedent for similar health, safety, and environmental violations throughout the City of Los Angeles. As such, the unlawful and dangerous LOD must be overturned and this matter must be carefully reviewed *de novo* in compliance with California's CEQA laws and the terms of the 2001 Settlement Agreement.

Sincerely,

Sam Yebri

Connect Create Collaborate

Dylan Sittig <dylan.sittig@lacity.org>

ZA-1989-17683-PA2-1A, supporting NASE's appeal

1 message

Pamela White <pamelasw4224@gmail.com> Mon, Jul 26, 2021 at 2:09 PM
To: apcwestla@lacity.org, dylan.sittig@lacity.org

Hello,

As someone who resides within 1500 feet of the West Pico Oil Drill Site, I heartily support NASE's appeal of the Zoning Administrator's June 2, 2021 decision. Please overturn the ZA's ruling.

Sincerely,
Pamela White
1420 S. Oakhurst Drive, 90035

My name is Richard S. Weiner and I am sending this email to the Area Planning Commission in support of the Appeal filed by Amy C. Minteer, Esq. on behalf of Neighbors For A Safe Environment (NASE).

My wife and I have lived in our home for more than 22 years, which is within 1500 feet of the West Pico Drill Site.

I am one of the founders and members of the Board of Director and Secretary of NASE, which is a California non-profit Public Benefit corporation. NASE was founded in 2000 to seek better and stronger protections for the community when BreitBurn Energy Company (BreitBurn) asked the Zoning Administrator to approve expanded operating rights on the Drill Site. Breitburn is the predecessor of the current Applicant, Pacific Coast Energy Company (PCEC).

The Drill Site is in the middle of a residentially zoned neighborhood. There are numerous schools and houses of worship within close proximity.

NASE filed suit in 2000-01 against BreitBurn and the City, and won a Writ of Mandate from the Los Angeles Superior Court ordering revisions to an Environmental Impact Report and reconsideration of the ZA's decision. That Writ caused BreitBurn and the City to seek a settlement with NASE, known in this current matter as the 2001 Settlement Agreement. Among the many provisions of the Settlement Agreement was a requirement for cyclical 5 Year Reviews of Conditions by the Zoning Administrator to examine compliance, "neighborhood impacts," and "the efficacy of mitigation measures" as per a procedure for a two-year post project check-up defined in Condition 78 of the 2000 ZA approval. The 5 Year Reviews of Conditions that were supposed to commence in 2010 and be held again in 2015 never happened. NASE prompted the initiation of the current review in November 2019 by notifying the Chief ZA and City Attorney that the 2001 Settlement Agreement had been violated. The ZA has failed in the current review to abide by the terms of the 2001 Settlement Agreement and Condition 78 of the 2000 ZA approval.

As pointed out in Ms.Minteer's Appeal on behalf of NASE, the Zoning Administrator has acknowledged that PCEC has violated numerous aspects of the Settlement Agreement, the 2000 ZA approval, and City code. As she also points out, there are also substantial CEQA violations. Yet, despite the imperative of Condition 78 of the 2000 ZA approval to assess environmental impacts and the "efficacy of mitigation measures," and despite the massive record of non-compliance and illegal projects, the ZA granted an improper Categorical Exemption from environmental review. This short circuited the ZA's entire review and helped to the produce the ZA's self-contradicted conclusion that the drill site is and has been in substantial compliance. As Ms. Minteer explains, the ZA's ruling is itself in violation of both City law and CEQA.

The ZA ruling has winked at illegal oil drilling projects executed without applications, reviews, and approvals required by City Code, and thereby dismisses City law in a way it is not authorized to do. This is illegal and poses a danger not just to the communities around the West Pico Drill Site but to the entire city.

The ZA decision should be reversed and the entire matter sent back to a fresh ZA with clear instructions to rehear the matter in compliance with the terms of the Settlement Agreement, Condition 78 of the 2000 ZA approval, City code, and CEQA.

I would be on the telephone voicing my support of the NASE Appeal at the hearing, but at the time of the hearing I will be flying to a Granddaughter's engagement party in New York.

Sincerely,

Richard S. Weiner

soro
south robertson
neighborhoods council

West Los Angeles Area Planning Commission Department of City Planning
200 N Spring St
Los Angeles, CA 90012

July 22, 2021

Sent Via Email to: apcwestla@lacity.org

Re: ZA-1989-17683-PA2-1A, West Pico Drill Site, 9101 & 9151 W. Pico Blvd, Los Angeles, CA, 90035

To the West Los Angeles Area Planning Commission,

In regard to Case No. ZA-1989-17683, ENV-2020-1328-CE, and by vote of 13 yea, 0 nay and 1 abstention at the July 15, 2021 General Board meeting, the South Robertson Neighborhoods Council (SORONC) fully supports the appeal filed by NASE (Neighbors for A Safe Environment), a California nonprofit environmental organization formed by our neighbors in 2000 due to concerns about the West Pico Drill Site.

We have attached a letter by NASE's attorney Amy Minteer of Chatten-Brown, Carstens & Minteer LLP, and the letter's attachments and addenda, which delineate the basis for the appeal.

As Ms. Minteer's letter points out, the West Pico Drill Site is operating in violation of:

- the conditions under which the project was approved,
- the Los Angeles Municipal Code
- the California Environmental Quality Act (CEQA), and
- the 2001 Settlement Agreement with NASE which requires periodic reviews and corrective actions for environmental and operational defects.

SORONC is charged with affirmatively acting to support the health, safety, and welfare of our stakeholders. City laws and regulations that are supposed to govern the operation of the drill site are expressly intended to protect public safety and health., Likewise for CEQA, the State of California's landmark environmental law. Therefore we find the ZA Determination abhorrent due to the determination's utter disregard for City laws and regulations, and its evasion of the requirements for environmental review under CEQA. This puts the safety, health, and welfare of our stakeholders at unnecessary risk.

SORONC stakeholders of all ages live, work, eat, play, learn, socialize and invest in close proximity to the West Pico Drill Site.

Michael Lynn
President

Ken Blaker
Vice President

Terrence Gomes
Treasurer

South Robertson Neighborhoods Council

PO Box 35836
Los Angeles, CA 90035

P: (310) 295-9920
E: info@soronc.org

soronc.org

City of Los Angeles Certified Neighborhood Council

Our position is not new. We have documented it in submissions to the ZA in 2020, but are repeating it now in reaction to the dangerously unfortunate ZA Determination, which should not be allowed to stand.

Sincerely,

Michael Lynn

Michael Lynn, President,
for the South Robertson Neighborhoods Council General Board

cc:
Theodore Irving, Associate Zoning Administrator
Dylan Sittig, Assistant to Associate Zoning Administrator
Irving Estineh Mailian, Chief Zoning Administrator
Edber Macedo, Assistant to Chief Zoning Administrator Mailian
Terry Kaufmann-Macias, Assistant City Attorney
Jennifer Tobkin, Deputy City Attorney
Paul Koretz, Council Member CD5
Joan Pelico, Chief of Staff CD5
Daniel Skolnick, Land Use Deputy CD5
Andy Shrader, Environmental Policy Director CD5
Professor Michael Salman
Rabbi Yonah Bookstein
Richard S. Weiner, Secretary NASE
Dr. Rae R. Drazin, President NASE

Connect Create Collaborate

Dylan Sittig <dylan.sittig@lacity.org>

Re: also a question about the zoom link

1 message

James Williams <james.k.williams@lacity.org> Tue, Jul 27, 2021 at 9:26 AM
To: Michael Salman <salman@history.ucla.edu>
Bcc: dylan.sittig@lacity.org

Good morning Michael,

There are a few moving parts to the notification process. The Commission Office is tasked with sharing the appeal information for the West LA Area Planning Commission's public hearing. We do that most effectively through the agenda. Please see the link below to a previous agenda and note the instructions, links and information that is provided there. There are links to the staff reports for each item that detail the project, the approval and the appeal.

https://planning.lacity.org/dcpapi/meetings/document/69762

The Zoom link and the passcode are the same information that will be shared on the agenda which will be posted one week before the meeting. I am not sure if you have a different copy of the hearing notice? I have attached the version that I am using and it is fairly clear and does name Amy Minteer? I will share your concerns with staff and supervisors.

I have added the Rules of Procedure for the West LA Area Planning Commission to clear up any confusion with the submission process. We are basically asking that all materials and comments be submitted ten days before the hearing date. We will accept comments and documents after that cutoff, but there will be size restrictions on submissions leading up to the hearing date. The contact email for the West Los Angeles Area Planning Commission is apcwestla@lacity.org.

The hearing notice is a brief summary of the project or appeal and an invitation for the public to participate in the hearing and gain clear knowledge of the project and any perceived challenges. There is more information within the initial action (that was appealed) and within the staff report and related documents that are shared with the public via the agenda. The Commission Office posts the same information that the Planning Commission reviews in preparation for the meeting.

Please feel free to share the attached information and to encourage your supporters to visit the Planning Department website as a source of information regarding the Planning process.

https://planning.lacity.org/about/commissions-boards-hearings

Best Regards,

James

LOS ANGELES CITY PLANNING

James K. Williams
Commission Executive Assistant II
Cultural Heritage Commission
West LA Area Planning Commission

james.k.williams@lacity.org

T: (213) 978-1295

Los Angeles City Planning
200 N. Spring St., Room 272
Los Angeles, CA 90012
Planning4LA.org

On Tue, Jul 27, 2021 at 8:35 AM Michael Salman <salman@history.ucla.edu> wrote:

> HI James,
>
> Thank you for your replies. Hope you had a good weekend and that you are staying safe.
>
> Can you confirm that the web address for the Zoom link posted on the hearing no ce is the same address that will be a live link on hearing agenda?
>
> So far we've shared the link only with the candidates running for the City Council CD5 seat, City A orney, Mayor, and Controller.
>
> We're also in email contact with over 500 members of the public (and climbing) but have not yet sent them a copy of the zoom link for the hearing on August 18 because it is too far in the future. We're thinking we will want to start sending them easy-to-read logis cal instruc ons for the hearing star ng on August 11.
>
> I think everyone we have heard from about the Hearing No ce has commented that it is unclear, physically difficult to read, and confusing. They have specifically men oned that the logis cal informa on about the hearing and advance submissions is unclear. Several have also said they can't tell what the hearing is about from the No ce.
>
> I noted in my ini al email to you that the No ce does not iden fy Amy Minteer as appealing on behalf of Neighbors for A Safe Environment (NASE).
>
> When Planning sent out its ENS no ce of cases filed, it listed Mr Koretz's appeal and did not list NASE's appeal at all. And the ENS no ce providee no descrip on at all for the case, which it did for all other cases. For the drill site case it only listed the street address and provided no other informa on. When I inquired about this and asked Planning to send out a correc on, I was told there was no explana on for how and why it happened, and that no correc on could be issued.
>
> Kind of seems like there are systemic problems (which need not involve any intent, just systems that are not working well).
>
> Michael

From: James Williams <james.k.williams@lacity.org>
Sent: Tuesday, July 27, 2021 7:50 AM
To: Michael Salman <salman@history.ucla.edu>
Subject: Re: also a ques on about the zoom link

Good morning Michael,

We ask that everyone use the Zoom link and access information found on the agenda. The hearing notice is a new format that is still being reviewed for real time challenges like the ones that you have brought to our attention. Thank you for these comments.

Best regards,

James

James K. Williams
Commission Executive Assistant II

Cultural Heritage Commission
West LA Area Planning Commission

james.k.williams@lacity.org

T: (213) 978-1295

Los Angeles City Planning
200 N. Spring St., Room 272
Los Angeles, CA 90012
Planning4LA.org

On Sat, Jul 24, 2021 at 6:04 PM Michael Salman <salman@history.ucla.edu> wrote:

James

One more question:

Is the zoom link on the hearing notice correctly formatted? It does not seem to function as a link, unlike the link for the agenda.

In general, the formatting for this notice is not optimal for easy reading, link access, etc. The type is small, legibility is obscured by colored backgrounds, etc.

https://planning.lacity.org/dcpapi/meetings/document/69965

Michael

---

2 attachments

ZA-1989-17683-PA2 -1A HN.pdf
1129K

WLA ROPs.pdf
1661K

Dylan Sittig <dylan.sittig@lacity.org>

Case No. ZA-1989-17683-PA2-1A, Supporting NASE's appeal

Rebecca Klempner <beccaklempner@gmail.com> Wed, Jul 28, 2021 at 12:40 PM
To: apcwestla@lacity.org, dylan.sittig@lacity.org

Dear members of the Area Planning Commission:

I was unsurprised to receive notice of the meeting regarding the appeal of recent rulings on the West Pico Drilling Site, given we live just a block from the pumping station.

The facility has been decades-long nuisance for us. There are signs of what's going on on the pavement outside the facility -- you can sometimes see the rainbow-like colors indicating oil presence on the concrete sidewalk outside the retaining wall whenever there's water present (for example, after rain). However, many of the residents don't even know that behind the retaining wall is an oil well. It's not required for landlords or home sellers to tell new residents even though petrochemicals are a known carcinogen, and the longer you live by them, the more concern there is.
After reading that there are indeed multiple legal violations hidden behind that wall, it seems to me that the operators depend on the anonymity that the wall provides.

We need to learn more about what exactly the operators are doing at the West Pico wells and how it impacts us. Personally, I'm concerned that there have been rather a lot of cancers and benign tumors among friends who have lived within a 3 block radius of the site. Are they just naturally occurring, and the fact I know of so many cases is just because so many people live in this tight little neighborhood? Or is there something else going on? We don't know because there has been insufficient environmental impact review.

I want to see regulations enforced, a thorough independent environmental review conducted, and if the results are concerning, I'd like to see the well shut down and the site properly ameliorated. I'm very concerned that the planning commission didn't take these actions previously EVEN WHEN THE DOCUMENT THE CITY PROVIDED EXPOSED VIOLATIONS. Not only was I puzzled by the lack of logic in the decision, it makes me question whether those who are supposed to be looking after the wellbeing of residents have instead prioritized the interests of businesses from outside our community.

Thank you for your attention,
Rebecca Klempner

R. Klempner

writing, copyediting, and developmental editing

http://rebeccaklempner.com/

Rebecca's latest book, *Adina At Her Best*, came out
January 2019 from Menucha Publishers. Click here to learn more.

Cheviot Hills Home Owners' Association

P.O. Box 64458, Los Angeles, CA 90064 www.cheviothills.org

July 30, 2021

Via Email (apcwestla@lacity.org)

West Los Angeles Area Planning Commission, Department of City Planning
200 N. Spring Street
Los Angeles, CA 90012

Re: ZA-1989-17683-PA2-1A
West Pico Drill Site, 9101 & 9151 W. Pico Boulevard, Los Angeles, CA 90035
Appeal by Neighbors for a Safe Environment (NASE)

To the West Los Angeles Area Planning Commission:

The Cheviot Hills Home Owners' Association represents some 1400 households situated not far from the West Pico Drill Site.

Our Association has participated in multiple land use cases of various kinds that have come before the Zoning Administrator for review. Many of our members have done the same in their professional and private capacities. We are now writing in support of the pending appeal by Neighbors for a Safe Environment (NASE).

In the matter of the "Plan Approval" for the West Pico Drill Site (Case No. ZA-1989-17683-PA2 & ENV-2020-1328-CE), we urge the West Los Angeles Area Planning Commission to overturn both the error-filled June 2, 2021 Zoning Administrator determination and the inappropriate categorical exemption from environmental review on which the Zoning Administrator's faulty review was based.

From the perspective of our collective experience in land use cases, as well as our proximity to the West Pico Drill Site, we are dismayed that the City allowed 24 major oil well projects to be executed without applications to the Zoning Administrator for legally required discretionary reviews and environmental clearance under CEQA, not to mention a 25th major project to install one megawatt of microturbine electric generators that are expressly prohibited by ZA conditions of use. This is unfathomable to those of us who have wrestled with the rigors of Zoning Administrator reviews and CEQA reviews.

In light of these 25 illegal projects and numerous other documented violations of City Code and conditions of approval, it is incredible that the Zoning Administrator could declare on the first page of his June 2, 2021 determination that: ***"I hereby DETERMINE, based on the whole of the administrative record, [t]hat the Conditions of Approval of Determination BZA No. 2000- 1697 have been and are being substantially complied with."*** That is an error of law and facts, contradicted many times within the Zoning Administrator's own letter of determination.

We are troubled to learn that this massive evasion of required reviews was enabled by the lack of City compliance inspections, from the same City that inspects home remodeling, billboards and countless other less serious activities that require City approvals and permits. More than a few of our members are frightened to hear that a work culture of sloppiness involving violations of the City's Fire Code, State oil well safety laws, and SCAQMD air emissions laws has grown in the shadow of the City's inattention. We cannot understand how the City can approve initial land use entitlements for an activity as inherently risky and historically troubled as oil production, especially in a residential neighborhood, and then turn a completely blind eye to the most basic requirements of compliance and enforcement during the ongoing life of the land use. We cannot understand how the Zoning Administrator in the current case could order no corrective actions and write no new conditions to protect our health and safety, and at the same time declare that "inspections…will continue" when the City does not do even the most basic compliance inspections.

We hoped that the current ZA review would be the starting point to turn this situation around. We are frustrated that the opposite has happened.

The same oil drill site that was allowed to evade ZA reviews and environmental reviews for 25 major projects is now being exempted from environmental review and being given a pass on a shocking array of illegal projects and other violations. The same oil drill site that was supposed to have Reviews of Conditions in 2010 and 2015 to "evaluate…the efficacy of mitigation measures" and change them as warranted has received a review that excluded consideration of the need for enhanced mitigation measures. There has been no CEQA process to consider the efficacy of mitigation, monitoring and enforcement measures that have obviously failed. This violates both Condition 78 of the 2000 ZA approval and Section 4.b of the 2001 Settlement Agreement, as well as CEQA and every ZA approval since the drill site was first given land use entitlement in 1965. The statements of the presiding ZA at the two summer 2020 public hearings declaring that no mitigation measures will be changed short-circuited legally required review processes.

The 25 unapproved projects, dozens of illegal and void City permits, and other problems documented by community members and reported to the Zoning Administrator were not addressed, but were buried in contradictory statements in the ZA's determination, alternately recognizing some of the violations but then determining on the first page that there has been compliance. This allows illegal activity to stand in place without equity or protection for the community, and it sets in motion another violation of CEQA for segmenting a larger known project into smaller pieces that obscure the full environmental impact.

We strongly urge you to send this case back for the proper environmental review under CEQA that it should have received from the outset: An initial study, followed by either a Mitigated Negative Declaration or an Environmental Impact Report. That is the necessary procedural and substantive first step toward holding a full and proper ZA review that addresses all the requirements of Condition 78 of the 2000 ZA approval, Section 4.b of the 2001 Settlement Agreement, and the documented evidence of 25 major unapproved projects and dozens of additional permitting and compliance problems.

Our Association understands the importance of following proper rules and regulations. We rely on the rigor of the City's Zoning Administrator, Engineering, and Building and Safety reviews to keep us all safe when our local residents undertake projects that could have an impact upon neighbors. We cannot accept that the same agencies would allow an oil drill site in close proximity to our neighborhood to escape environmental reviews under CEQA and even facilitate it by granting an exemption, nor can we understand how 25 major projects at an oil drill site could be allowed to happen without a review and allowed to persist when reported to the Zoning Administrator.

Plainly, the correct course of action is to begin this review again and to do it properly.

Sincerely,

Bob Keehn, President
On Behalf of the Board of Directors, Cheviot Hills Home Owners' Association

cc: Theodore Irving, Associate Zoning Administrator
Dylan Sittig, Assistant to Associate Zoning Administrator Irving
Estineh Mailian, Chief Zoning Administrator
Edber Macedo, Assistant to Chief Zoning Administrator Mailian
Terry Kaufmann-Macias, Assistant City Attorney
Jennifer Tobkin, Deputy City Attorney
Paul Koretz, Council Member CD5
Joan Pelico, Chief of Staff CD5
Daniel Skolnick, Land Use Deputy CD5
Andy Shrader, Environmental Policy Director CD5
Professor Michael Salman
Rabbi Yonah Bookstein
Richard S. Weiner, Secretary NASE
Dr. Rae R. Drazin, President NASE

EST 1949
Beverlywood
HOMES ASSOCIATION

West Los Angeles Area Planning Commission
Department of City Planning
200 N Spring St
Los Angeles, CA 90012

Sent Via Email to: apcwestla@lacity.org

Re: ZA-1989-17683-PA2 & ENV-2020-1328-CE; West Pico Drill Site, 9101 & 9151 W. Pico Blvd, Los Angeles, CA, 90035

To the West Los Angeles Area Planning Commission,

The Beverlywood Homes Association represents 1,354 members and their families who reside South of the West Pico Drill Site.

Our Association engages in rigorous design reviews of residential projects in our neighborhood and our organization has participated in multiple land use cases of different kinds that have come before the Zoning Administrator for review. Many of our members have done the same in our professional and private capacities.

In the matter of the "Plan Approval" for the West Pico Drill Site (Case No. ZA-1989-17683-PA2 & ENV-2020-1328-CE), we urge the West Los Angeles Area Planning Commission to overturn both the error-filled June 2, 2021 Zoning Administrator determination and the inappropriate Categorical Exemption from environmental review on which the Zoning Administrator's faulty review was based.

From the perspective of our collective experience in land use cases as well as being neighbors of the West Pico Drill Site, we are shocked that the City allowed 24 major oil well projects to be executed without applications to the Zoning Administrator for legally required discretionary reviews and environmental clearance under CEQA, plus a 25th major project to install one megawatt of microturbine electric generators that are expressly prohibited by ZA conditions of use. This is unfathomable to the many of us who have wrestled with the rigors of Zoning Administrator reviews and CEQA reviews.

In light of these 25 illegal projects and numerous other documented violations of City Code and Conditions of Approval, it is beyond shocking that the Zoning Administrator could declare on page 1 of his determination issued on June 2, 2021 that: ***"I hereby DETERMINE, based on the whole of the administrative record, [t]hat the Conditions of Approval of Determination BZA No. 2000-1697 have been and are being substantially complied with."*** That is an error of law and facts, contradicted many times within the Zoning Administrator's own Letter of Determination.

We are startled to learn that this massive evasion of required reviews was enabled by the lack of City compliance inspections, from the same City that inspects home remodeling, billboards, and countless other less serious activities that require City approvals and permits. More than a few of our members are frightened to hear that a work culture of sloppiness involving violations of the City's Fire Code, State oil well safety laws, and SCAQMD air emissions laws has grown in the shadow of the City's inattention. We cannot understand how the City can approve initial land use entitlements for an activity as inherently risky and historically troubled as oil production, especially in a residential neighborhood, and then turn a completely blind eye to the most basic requirements of compliance and enforcement during the ongoing life of the land use. We cannot understand how the Zoning Administrator in the current case could order no corrective actions and write no new conditions to protect our health and safety, and at the same time declare that "inspections . . . will continue" when the City does not do even the most basic compliance inspections.

We hoped that the current ZA review would be the starting point to turn this situation around. But we are dismayed to learn that the opposite has happened.

The same oil drill site that was allowed to evade ZA reviews and environmental reviews for 25 major projects is now being exempted from environmental review and being given a pass on a shocking array of illegal projects and other violations.

The same oil drill site that was supposed to have Reviews of Conditions in 2010 and 2015 to "evaluate . . . the efficacy of mitigation measures" and change them as warranted has received a review that excluded consideration of the need for enhanced mitigation measures. There has been no CEQA process to consider the efficacy of mitigation, monitoring, and enforcement measures that have self-evidently failed. This violates both Condition 78 of the 2000 ZA approval and Section 4.b of the 2001 Settlement Agreement, as well as CEQA and every ZA approval since the drill site was first given land use entitlement in 1965. The statements of the presiding ZA at the two summer 2020 public hearings declaring that no mitigation measures will be changed short-circuited legally required review processes

The 25 unapproved projects, dozens of illegal and void City permits, and other problems documented by community members and reported to the Zoning Administrator were not addressed, but were buried in contradictory statements in the ZA's determination, alternately recognizing some of the violations but then determining on page 1 that there has been compliance. This allows illegal activity to stand in place without equity or protection for the community, and it sets in motion another violation of CEQA for segmenting a larger known project into smaller pieces that obscure the full environmental impact.

We implore you to send this case back for the proper environmental review under CEQA that it should have had from the outset: an initial study, followed by either a Mitigated Negative Declaration or an Environmental Impact Report. That is the necessary procedural and substantive first step toward holding a full and proper ZA review that addresses all the requirements of Condition 78 of the 2000 ZA approval, Section 4.b of the 2001 Settlement Agreement, and the documented evidence of 25 major unapproved projects and dozens of additional permitting and compliance problems.

Our homeowner's association understands the importance of following proper rules and regulations. We rely on the rigor of the City's Zoning Administrator, Engineering, and Building and Safety reviews to keep us all safe when our local residents undertake projects that could have an impact upon neighbors. We cannot accept that the same agencies would allow an oil drill site in our neighborhood to escape environmental reviews under CEQA and even facilitate it by granting an exemption, nor can we understand how 25 major projects at an oil drill site could be allowed to happen without a review and allowed to persist when reported to the Zoning Administrator.

The correct course of action is to begin this review again and to do it properly.

Sincerely,

Scott Krieger, President
On Behalf of the Board of Directors
Beverlywood Homes Association

Cc:

Theodore Irving, Associate Zoning Administrator
Dylan Sittig, Assistant to Associate Zoning Administrator Irving
Estineh Mailian, Chief Zoning Administrator
Edber Macedo, Assistant to Chief Zoning Administrator Mailian
Terry Kaufmann-Macias, Assistant City Attorney
Jennifer Tobkin, Deputy City Attorney
Paul Koretz, Council Member CD5
Joan Pelico, Chief of Staff CD5
Daniel Skolnick, Land Use Deputy CD5
Andy Shrader, Environmental Policy Director CD5
Professor Michael Salman
Rabbi Yonah Bookstein
Richard S. Weiner, Secretary NASE
Dr. Rae R. Drazin, President NASE
Charles Stein, President SORO NC

Dylan Sittig <dylan.sittig@lacity.org>

PCEC West Pico Project - Request For Meeting

Dylan Sittig <dylan.sittig@lacity.org> Tue, Oct 13, 2020 at 11:24 AM
To: Michael Finch <mfinch@energyprojectllc.com>
Cc: Edber Macedo <edber.macedo@lacity.org>, Philip Brown <philip.brown@pceclp.com>

Hi Michael,

I was able to discuss this with our staff. Given that the case has already gone to a hearing, we do not feel it is appropriate to have another meeting right now. The ZA does have the authority to amend the conditions, as necessary, even if there was not a change requested by the applicant. However, if you would like to send additional information, you may still do that while the determination is pending. Certainly once the decision letter comes out and if final, we can discuss next steps.

Sincerely,
Dylan

On Fri, Oct 2, 2020 at 5:20 PM Dylan Sittig <dylan.sittig@lacity.org> wrote:

Hi Michael,

Apologies for the delayed response. Edber is out of the office for the week and I was out for a few days. I will circle this request with our team and get back to you next week.

Sincerely,
Dylan

On Mon, Sep 28, 2020 at 2:58 PM Michael Finch <mfinch@energyprojectllc.com> wrote:

> Dylan and Edber, in order to address concerns raised by NASE and other community members during the ZA hearings PCEC is considering submitting a new application or amending the existing application for the West Pico Project. We would like to schedule a meeting with the City to discuss the path forward. Our attorney will also be joining. In order to have a meaningful discussion we would like to have the City attorney working on our case, the head ZA, and appropriate planning staff. Here are the following agenda items:
>
> - New application vs. amending the existing application.
> - Elimination of existing conditions that are no longer applicable.
> - Addition of new conditions to address community concerns.
> - Conditions related to the entire drill site (location of wells and the site that has the production equipment). We believe this is the “drill site.”
> - Other project changes needed to address community concerns.
>
> Thanks
>
> **Mike Finch**
>
> **Energy Project Solutions LLC**
>
> **841 Mohawk Street, Suite 120**
>
> **Bakersfield CA 93309**
>
> **www.energyprojectllc.com**
>
> **Cell 661-809-4956**

--

Dylan Sittig
City Planning Associate
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E-NEWS

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E-NEWS

Associate Zoning Administrator Theodore Irving, CD5 City Council Member Paul Koretz, City Planner Dylan Sittig, CD5 Chief of Staff Joan Pelico, CD5 Director of Environmental Affairs Andy Shrader, CD5 Senior Land Use Deputy Daniel Skolnick,

209 people have signed a petition on Action Network telling you to DEMAND ENVIRONMENTAL REVIEW, ANNUAL INSPECTIONS, and EMISSIONS MONITORING at the WEST PICO DRILL SITE.

Here is the petition they signed:

> We are writing to you as a group of extremely concerned local residents, regarding the health and safety risk posed by oil and gas drilling and production in our neighborhood.
>
> The West Pico Drill Site (located at 9101 & 9151 W. Pico Blvd, Los Angeles, CA 90035)_ is located in a densely populated urban setting, surrounded by schools, homes, and places of worship.
>
> The City of Los Angeles has never required Annual Compliance Inspections at any oil drill site in the City. Inspections are the most basic element of any compliance and safety requirement. Due to the City's negligence in never requiring inspections, compliance problems have proliferated.
>
> The City also has a track record of improperly exempting oil drill sites from the environmental review that is required by the California Environmental Quality Act (CEQA), and it is doing this yet again in the case of the West Pico Drill Site.
>
> We call upon the Zoning Administrator and our local City Council Member Paul Koretz to require:
> - Full and proper environmental review as required by CEQA.
> - Annual Compliance Inspections.
> - Permanent 24/7 Emissions Monitoring with recorded data that is reported publicly to the City on a quarterly basis.
> - That the City obey its own laws and obey State laws in order to protect public health, safety, and the environment.

You can view each petition signer and the comments they left you below.

Thank you,

Pico Robertson Health and Safety Coalition

---

1. An anonymous signer (*ZIP code:)*

2. David Mordecai (*ZIP code: 90035)*

3. Ariela Abugova (*ZIP code: 90210)*

4. Elena Boldovskaya (*ZIP code: 90035)*

5. Akiva Feinstein (*ZIP code: 90212)*

6. Adam Richeimer (*ZIP code: 90035)*

7. Adinah Sher (*ZIP code: 90035)*

8. Adina Steinberg (*ZIP code: 90035)*

9. Adi Werthman (*ZIP code: 90035)*

10. Ariel Fuhs (*ZIP code: 90035)*
This needs to be reviewed with actual enforcement

11. Andrew Spitzer (*ZIP code: 90034)*

12. Adam Kligfeld (*ZIP code: 90048)*

13. Allen Ashkenazi (*ZIP code: 90035)*
There are clear noxious smells and noises in the middle of the night from the facility.

14. Abraham Mezrich (*ZIP code: 90035)*

15. An anonymous signer (*ZIP code: 90035)*

16. Adam Reich (*ZIP code: 90035)*

17. Aria Zarifpour (*ZIP code: 90035)*

18. Anat Sadan (*ZIP code: 90211)*

19. Aviva Bienn (*ZIP code: 90211)*

20. ashley mashian (*ZIP code: 90025)*

21. Avraham Gordon (*ZIP code: 90035)*

22. Batsheva Frankel (*ZIP code: 90035)*

23. Brett Barenholtz (*ZIP code: 90035)*

24. Barry Kaye (*ZIP code: 90035)*

25. Ben Yeroushalmi (*ZIP code: 90035)*

26. Beverly Fienberg (*ZIP code: 90064)*

27. Aaron Biston (*ZIP code: 90035)*
I LIVED AT 1107 s doheny for 19 years and always smelled oil fumes on a daily basis . i complained to councilman paul koretz but no action was taken

28. Jana Lehman (*ZIP code: 90035)*

29. Brad Berger (*ZIP code: 90035)*

30. Bracha rich (*ZIP code: 90035)*

31. Brittany Domb (*ZIP code: 90035)*

32. Brooke Korda (*ZIP code: 90035)*

33. Batheva Kasdan (*ZIP code: 90035)*
This is a no-brainer. It's a residential neighborhood!

34. William Korn (*ZIP code: 90035)*

35. Charles Carnow (*ZIP code: 90035)*

36. Carolyn Haber (*ZIP code: 90035)*

37. Emanuel taitz (*ZIP code: 90035)*
Do your job ! The safety and health of the community matters.

38. C S (*ZIP code: 90035)*

39. Cherie Goldwag (*ZIP code: 90035)*
There are a lot of people in the area who have had cancer without a family history or other factors such as obesity. This needs to be investigated further to see if there is an environmental factor involved

40. Cherie Lewis (*ZIP code: 90035)*

41. Cheryl Ibgui (*ZIP code: 90035)*

42. claire benyowitz (*ZIP code: 90035)*

43. Yulia Edelshtain (*ZIP code: 90035)*

44. Craig Lewis (*ZIP code: 90035)*
How can you possibly ignore the neighborhood with this so close to our schools and residences??

45. Dahlia Fox (*ZIP code: 90211)*
We lived less than a half-mile from this site, and dine at restaurants and food providers within the same distance, and my husband became ill with ALL- Acute Leukemia. I'd like to know if there is a higher incidence of cancers, especially blood-related cancers whose main causes may be petroleum-related, within close proximity to this site over the years? Proper safety and environmental reviews and studies must be done.

46. Dan Messinger (*ZIP code: 90035)*

47. Danny Abergel (*ZIP code: 90035)*

48. DANIEL KOTZER (*ZIP code: 90034)*

49. An anonymous signer (*ZIP code: 90035)*

50. Risa Dauer (*ZIP code: 90034)*

51. Susan Frankel (*ZIP code: 90035)*

52. David Diamond (*ZIP code: 90034)*

53. Debra Segura (*ZIP code: 90035)*

54. debbie mund (*ZIP code: 90034)*

55. Devorah Lowy (*ZIP code: 90035)*

56. Lisa Rose (*ZIP code: 90035)*

57. David Weiss (*ZIP code: 90035)*
Seems as though our city reps are steamrolling us on this. I just bought 500 feet from this site. We need to know it’s safe!

58. Dodie Herskovitz (*ZIP code: 90034)*

59. Dorit Naftalin (*ZIP code: 90035)*

60. Doug Schiller (*ZIP code: 90035)*
This business should not be above the law and should stick to it's agreements. Needless to say, we should all be safe!

61. Daniel Rudé (*ZIP code: 90035)*

62. Dolores Richardone (*ZIP code: 90035)*
Safety concerns for our neighborhood.

63. Daren Schlecter (*ZIP code: 90035)*

64. Debbie Summers (*ZIP code: 90035)*
I also think there should be soil testing. Gas Pipes are situation under the ground of many homes in the neighborhood surrounding the pico/ Doheny oil well.

65. Denise Mordecai (*ZIP code: 90036)*

66. Ziva Plattner (*ZIP code: 90035)*

67. Josh Zarate (*ZIP code: 94112)*

68. Quentin Fischer (*ZIP code: 24018)*

69. Eleonora Benjamin (*ZIP code: 90035)*

70. Ellen Carmona (*ZIP code: 90211)*

71. Benjamin Elterman (*ZIP code: 90035)*
I'm very concerned about the safety of the West Pico Drill Site and I demand inspections!

72. Etan Cohen (*ZIP code: 90035)*

73. Daniel Braum (*ZIP code: 90035)*
Let's have common sense regulation. I'm very surprised that in a City like Los Angeles, we don't have basic regulations in place

74. KAMRAN ZARIFPOUR (*ZIP code: 90035)*
This is not acceptable this thing happening next to residential and schools. This place must shut down and move.

75. Emanuel Gottlieb (*ZIP code: 90035)*

76. gabi becher (*ZIP code: 90034)*

77. Gaby Cohen (*ZIP code: 90035)*
This is affecting the health of these community and there isn't education about it and we need to do better.

78. Gabrielle Hassan (*ZIP code: 90035)*

79. Scott Jacobs (*ZIP code: 90035)*

80. Eugene Greenberg (*ZIP code: 90035)*

81. Gilat Englanoff (*ZIP code: 90035)*

82. Harry Nelson (*ZIP code: 90035)*

83. Marc Morrison (*ZIP code: 90035)*
these emissions and other associated after effects of the site, may cause cancer, and other effects to the population living near the site itself and any flow of any product(s) under the street.

84. Marc Morrison (*ZIP code: 90035)*

85. Hillel Aufrichtig (*ZIP code: 90035)*

86. Elana Aufrichtig (*ZIP code: 90035)*

87. Audrey Adler (*ZIP code: 90035)*

88. Holly Dennis (*ZIP code: 90035)*

89. Chava Rachel (*ZIP code: 90210)*

90. Iris douek (*ZIP code: 90035)*

91. Jacob Lefferman (*ZIP code: 90035)*

92. jason ciment (*ZIP code: 90035)*

93. Jeff Astrof (*ZIP code: 90034)*

94. Johanna Camacho (*ZIP code: 91402)*

95. Jill Lefferman (*ZIP code: 90035)*

96. Jay Summers (*ZIP code: 90035)*

97. Jennifer Grunfeld (*ZIP code: 90035)*
Our health is at risk. This should not be happening in a residential area.

98. JENNIFER SUSICH (*ZIP code: 90035)*

99. Jerry Madison (*ZIP code: 90074)*
Annual inspections are necessary.

100. Jonathan Karabenick (*ZIP code: 90035)*

101. JACQUELINE MIZRACHI (*ZIP code: 90035)*

102. Joseph Mordecai (*ZIP code: 90035)*

103. Joan Steinberg (*ZIP code: 90035)*

104. Joe Clapper (*ZIP code: 90064)*

105. Jonah Light (*ZIP code: 90035)*

106. Josh Lefferman (*ZIP code: 90035)*

107. Josh Grossmsn (*ZIP code: 90035)*

108. Jessica Rutiz (*ZIP code: 90048)*

109. Jeremy Stuhl (*ZIP code: 90035)*

110. Judianna Castle (*ZIP code: 90068)*

111. Judith Hantman (*ZIP code: 90035)*

112. Julia Berger (*ZIP code: 90035)*
Please help!

113. Justin Stewart (*ZIP code: 90035)*

114. Rebecca Slomovic (*ZIP code: 90035)*

115. Kalman Topp (*ZIP code: 90035)*

116. ARIELA KAUFFMAN (*ZIP code: 90035)*

117. Karen Silver (*ZIP code: 90064)*

118. Karen Graber (*ZIP code: 90034)*

119. Kira Faerstain (*ZIP code: 91356)*

120. karolina koziec (*ZIP code: 60056)*

121. Aaron Korda (*ZIP code: 90035)*

122. Loren Papernik (*ZIP code: 90035)*

123. Lori Arnan (*ZIP code: 90035)*

124. leigh greenberg (*ZIP code: 90035)*
Please keep our neighborhood safe!

125. Leon Benrimon (*ZIP code: 90212)*

126. Leslie Kessler (*ZIP code: 90034)*

127. Linda and Korn (*ZIP code: 91356)*
I lived in the area for 15 years, and continued to bring my son to the area for school after we moved and felt unsafe everytime I walked by the Drill Site. I cannot imagine why it's in the middle of a busy neighborhood.

128. Ellen Hausman (*ZIP code: 90034)*

129. lolly seidenfeld (*ZIP code: 90035)*

130. Stuart Wax (*ZIP code: 33433)*
Where are all the environmentalists?
Where are the supporters of the new green deal?
DEMAND ENVIRONMENTAL REVIEW, ANNUAL INSPECTIONS, and EMISSIONS MONITORING at the WEST PICO DRILL SITE

131. Marcus Freed (*ZIP code: 90035)*
We live in the area and it is awful that there is a drilling site on our doorstep!!

132. Marcy Valley (*ZIP code: 90064)*

133. Marilyn Greenberg (*ZIP code: 90035)*

134. Melissa Bales (*ZIP code: 90035)*

135. Mildred Rothschild (*ZIP code: 90035)*

136. Eitan Melamed (*ZIP code: 90048)*

137. Maia Lefferman (*ZIP code: 90035)*

138. Matthew McKeown (*ZIP code: 90064)*

139. Michel Rafi (*ZIP code: 90035)*

140. Matthew Lefferman (*ZIP code: 90035)*

141. Nancy Melamed (*ZIP code: 90035)*

142. Natalie Weiss (*ZIP code: 90048)*

143. Nancy Norris (*ZIP code: 90064)*
Inspections and emissions monitoring should be annual. I had assumed it was the norm.

144. Nora Rafi (*ZIP code: 90035)*

145. naomi suriel (*ZIP code: 90035)*

146. Pam Kunick-Cohen (*ZIP code: 90035)*

147. Paul Hockley (*ZIP code: 90064)*
Both the Pico and Rancho Park (Hillcrest) sites pose a danger to our community. These facilities are ticking time bombs! One accident can result in a major disaster. They must be strictly regulation or should be SHUT DOWN.
Research the gas explosion on Venice Blvd in 1976 If you have any doubt about how disastrous an accident can be with a gas pipeline from a drilling facility.

148. rabbi simcha GREEN (*ZIP code: 90211)*
Beverly Hills is also concerned

149. Yonah B (*ZIP code: 90035)*

150. Rachel Bookstein (*ZIP code: 90035)*
Thank you all for paying attention to this important community environmental issue!

151. Rachel Malk (*ZIP code: 90035)*

152. Randi Balavram (*ZIP code: 90035)*

153. joseph kanefsky (*ZIP code: 90035)*

154. Richard Horowitz (*ZIP code: 90035)*
Nothing more important than the health of our residents.

155. Rivka (*ZIP code: 90035)*

156. Russell Jacobs (*ZIP code: 90064)*

157. Roger Carnow (*ZIP code: 90024)*

158. Linda Rohatiner (*ZIP code: 90035)*
The safety of our neighborhood must be verified

159. Deborah Hirschmann (*ZIP code: 90034)*

160. Richard Weiner (*ZIP code: 90035)*
At the ZA hearing this past week, Mr. Skolnick indicates that Councilman Koretz would close down the Pico drill site. What action has that office done to accomplish that?

161. Michael Salman (*ZIP code: 90018)*

162. Scott Epstein (*ZIP code: 90046)*
It's past time that we end oil extraction within urban neighborhoods. The very least we can do is monitor these sites properly.

163. Scott Silver (*ZIP code: 90064)*

164. Sepy Nosrati (*ZIP code: 90210)*

165. Sharon Saks (*ZIP code: 90035)*

166. Sharon S (*ZIP code: 90035)*

167. Shawni Astrof (*ZIP code: 90034)*

168. Shelli B (*ZIP code: 90034)*

169. Sivan Lasman (*ZIP code: 90035)*

170. Simone Kboudi (*ZIP code: 90035)*

171. Sara Burton (*ZIP code: 90035)*

172. Sophie Melamed (*ZIP code: 90035)*

173. Stacey Altman (*ZIP code: 90064)*
I'd like to see environmental review and oversight. Sick of this shit.

174. stacy brooks (*ZIP code: 90034)*
No More. Time to save our neighborhoods and our children. We need to have appropriate and thoughtful compliances in place. Better than having a huge class action law suit that will cost more than doing the right thing. RIGHT???"

175. Steven Fried (*ZIP code: 90035)*

176. Susan Marlowe (*ZIP code: 90211-3566)*

177. Susie Porgess (*ZIP code: 90034)*
we are concerned about the health and safety of our neighborhood

178. Talya Waldman (*ZIP code: 90034)*

179. Tanya Surpin (*ZIP code: 90035-4142)*

180. Tamar Yunger (*ZIP code: 90035)*

181. Tova Zakaria (*ZIP code: 90048)*

182. Jennifer kasten (*ZIP code: 90035)*

183. Claudine Sokol (*ZIP code: 90034)*

184. Victoria Frankel (*ZIP code: 90035)*

185. Yagil Tsaidi (*ZIP code: 90035)*

186. Yoni Segura (*ZIP code: 90035)*

187. Lynn Rohatiner (*ZIP code: 90034)*
I am concerned about the heallth effects of drilling in our neighborhood.
My children and grandchildren live in this neighborhood. Please drill in an area far away from kids and schools.

188. Aimee Zeltzer (*ZIP code: 90211)*
I used to live a few block away. I still attend Pico Shul and frequent Pico Robertson for many activities like shopping, eating out, and visiting friends. It effects us ALL. I am still a neighbor and live a few blocks away and still feel strongly that the CITY should DO SOMETHING ABOUT IT....especially

since the Gas Company has said they would. An elected governing body of officials are suppose to enact laws and regulations to protect its citizens. THANK YOU

Committees:

Chair
Personnel & Animal Welfare

Vice Chair
Energy, Climate Change & Environmental Justice
Ad Hoc Committee on Police Reform

Member
Budget and Finance
Transportation

Website: http://cd5.lacity.org
Email: Paul.Koretz@lacity.org

City of Los Angeles

PAUL KORETZ
Councilmember, Fifth District

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(323) 852-1129 Fax

September 11, 2020

Dear Neighbors,

Thank you all so much for sharing your concerns about the West Pico Drill Site, located at the corner of Pico and Doheny. NASE (Neighbors for a Safe Environment) has had a long and contentious relationship with this drill site and I appreciate your strong advocacy over two decades on behalf of community, friends and neighbors. I also appreciate, as always, the work and focus of the South Robertson Neighborhoods Council, who is always on top of issues affecting the surrounding neighborhoods and has a long history of mutual cooperation with my staff and I.

I must admit I have been fairly surprised by some of the negative responses my staff and I have received, given that I have been one of the City Council's leaders in regaining a foothold on an out-of-control oil and gas industry which has operated for decades without proper oversight. After my legislation with Councilmember Bonin to ban fracking in Los Angeles got stalled, it became apparent from the departmental responses that we could not move forward without an oil and gas expert, so we introduced legislation in April 2015 to hire one -- the Petroleum Administrator. I worked with then-Council President Wesson through several stages of legislation to develop the position. And I am one of the principle co-authors of the legislation calling for 2,500 foot health and safety buffer zones around oil and gas operations in the City, legislation which we expect will eventually shut down the West Pico Drill Site permanently.

People have complained that we didn't act on the West Pico Drill Site earlier. Before last year, my office had received just one complaint about the site. Unfortunately, we need more than that if we are to be

able to spur our overburdened city bureaucracy into action. We need specific odors or noises reported at specific times to help us make a case for increased scrutiny. Once we did hear more loudly from Rabbi Bookstein and the community and subsequently found out from NASE about the existing settlement agreement that the oil companies operating the West Pico Drill Site had clearly violated, we immediately contacted the Planning Department. This directly resulted in the current Zoning Administrator hearings about the site. I also asked the Fire Department, which is the department currently tasked with regularly inspecting oil and gas operations within the City, to perform inspections and document violations, which they have done, toward building a strong case of ongoing malfeasance against the operator.

We all want the same thing. Oil and gas operations are an inherently incompatible land use with neighborhoods, schools, hospitals, houses of faith and, frankly, anywhere that people live and breathe. Our friends and neighbors must be protected from these operations.

The November 2019 letter from Neighbors for a Safe Environment requested five items:

a) **ZA Review of Conditions** – This is currently occurring. I introduced this motion to institute a clear and transparent transition plan to cover change of operators or a change of Councilmembers going forward and we expect Planning to keep it going every five years. As I will be termed out in 2022, the community may want to consider engaging the next Councilmember before five years are up.

b) **Request for inspection** – The ZA Review of Conditions *is* an inspection and is following established protocol. On June 22, 2020, the following City departments visited the location for an onsite inspection: the Office of the Zoning Administration, Office of Petroleum and Natural Gas Administration and Safety, and Los Angeles Fire Department. I had also previously asked the Fire Department to conduct additional inspections, which they did.

c) **Request for annual inspection** - I am supportive of the ZA adding a new condition to require an annual inspection at this site. I also support the ongoing citywide legislation for annual inspections of all drill sites, which needs to be approved by the entire City Council. The fee study has finally been completed by the consultant and a report is forthcoming.

d) **Fence-Line monitoring** - I support adding a new condition of use requiring fence-line emissions monitoring.

e) **Request to Amend Condition 78 to include 5 year reviews** - I am not opposed, but do not believe this is necessary as it is already a requirement of the legal settlement.

I wanted to give you some of the details of my plans for the site, so that you can realize we are all working toward the same goals:

- I will soon be introducing a motion requesting that the City Attorney's Environment Justice Unit investigate the code violations the Fire Department found on the site. This may result in criminal charges, and at a minimum, will put violations into the legal record.
- I will introduce a motion directing the LAFD to report on the results of their investigation and what they found on site**.**
- I will examine the Zoning Administrator's Letter of Determination to see what additional violations will be found there, as well. And if the findings are inadequate, we will appeal.

My staff and I, after serious consultation with the City Attorney's office, have also met with Jamie Hall, a local California Environmental Quality Act (CEQA) Attorney who has the distinction of having actually won a recent CEQA case before the California Supreme Court, which is enough to convince me of his expertise. This confirmed our belief that the CEQA actions called for in the online petition signed by community members, while certainly well-intentioned, are guided by a misunderstanding of the CEQA process and how it relates to this specific Zoning Administrator's inspection process, a Review of Conditions. Rather than asking the applicant to file for an additional entitlement to authorize unpermitted activity and conducting environment review, we believe the value to the community would be best served by vigorously enforcing the law and stopping that illegal and unpermitted activity.

In this case, the Zoning Administrator is only conducting a Review of Conditions. The ZA has not been asked for, nor would this office support, any expansion or modification of the previous use. Nor may they authorize the continuation of any illegal, unpermitted activity. Simply put, any such activity must be discontinued. A Review of Conditions, in and of itself, has no environmental impact and therefore a CEQA exemption is appropriate. Again, the unpermitted work on the site is not covered by CEQA under the current ZA case as it is not included in the project description and can't be legalized under this instant request. If the applicant chooses in the future to file an additional application to legalize unpermitted improvements to the site, that application would require a robust and detailed CEQA report, which would only be beneficial to the oil company. But this is not the case now. No such permit has been applied for and this office would oppose such a request and would advocate for the highest level of environmental review authorized under the law – a full Environmental Impact Report (EIR).

Lastly, I strongly encourage you to continue to report any nuisances that you feel may be occurring at the drill site or the production site, located at 9101 West Pico Boulevard, such as noise, odor, dust, smoke or vibration to the following:

The Office of Zoning Administration	**South Coast AQMD**	**Los Angeles Department of Building and Safety**	**Los Angeles Fire Department**
RE:ZA-1989-17683-PA2 ATTN: Dylan Sittig, City Planning Associate 200 N. Spring St, Rm. 720 Los Angeles, CA 90012 dylan.sittig@lacity.org (213) 978-1197	1-800-CUT-SMOG (1-800-288-7664) Or The South Coast Air Quality Management District's On-line Complaint Reporting System **http://www3.aqmd.gov/webappl/complaintsystemonline/NewComplaint.aspx**	To report a complaint to Building and Safety call 3-1-1 or visit https://www.ladbsservices2.lacity.org/OnlineServices/?service=rav	200 North Main Street, 16th Floor Los Angeles, CA 90012 (213) 978-3800

Again, once the ZA proceedings reach their completion, I will appeal the report if necessary.

Sincerely,

Paul Koretz

PAUL KORETZ
Councilmember, 5th District

Connect Create Collaborate

Dylan Sittig <dylan.sittig@lacity.org>

Public comment for ZA-1989-17683-PA2

Aria Z <ariazarifpourlaw@gmail.com> Tue, Sep 1, 2020 at 10:00 AM
To: Dylan Sittig <dylan.sittig@lacity.org>

Hi, my name is Aria Zarifpour, I am a student at UC Berkeley. I've lived on 1483 south crest drive with my family for about 16 years of my life, which is less than a .3 miles distance from the West Pico Drill Site.

Since the July 9th hearing, I've been doing extra research about the West Pico Drill Site and City regulation of the oil industry.

I learned that in 1995 (25 years ago, and 5 years before I was born) Council Member-elect Mike Feuer wrote to the Zoning Administrator. He called for inspection monitoring to enforce mitigation measures for noise and odors within the West Pico Drill Site. He did so when there was a ZA Review of the site with Mitigated Negative Declaration for environmental review to satisfy the CEQA law.

While Mr. Feuer called for that in 1995. 25 years later there are still no City Compliance Inspections and no Emissions Monitoring requirements today. He was the CD5 Council member from 1995-2001, and he has been the City Attorney since 2013.
Mr Koretz has been the Council Member for CD5 since 2009.
Unfortunately, we still don't have inspections or emissions monitoring, and the City has gone backward on requiring environmental review.
I don't understand how they and the ZA haven't fixed a problem they have known about since at least 1995, and maybe even all the way back to 1989 or 1984. I hope there is more action regarding this issue. Thank you!
(ZA-95-0153 is the case number I'm referring to)

Dylan Sittig <dylan.sittig@lacity.org>

Fw: New Submission - West Pico Drill Site - August 27, 2020 - by Attorney Cherie Lewis

Cherie Lewis <cherie0206@hotmail.com> Thu, Aug 27, 2020 at 9:52 AM
To: "dylan.sittig@lacity.org" <dylan.sittig@lacity.org>
Cc: Cherie Lewis <cherie0206@hotmail.com>

From: Cherie Lewis <cherie0206@hotmail.com>
Sent: Thursday, August 27, 2020 9:36 AM
To: Cherie Lewis <cherie0206@hotmail.com>
Subject: Fw: New Submission - West Pico Drill Site - August 27, 2020 - by A orney Cherie Lewis

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From: Cherie Lewis <cherie0206@hotmail.com>
Sent: Thursday, August 27, 2020 9:20 AM
To: Cherie Lewis <cherie0206@hotmail.com>
Subject: Fw: Tes mony - West Pico Drill Site - August 27, 2020 - Submission by Cherie Lewis

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From: Cherie Lewis <cherie0206@hotmail.com>
Sent: Thursday, July 9, 2020 9:39 AM
To: Cherie Lewis <cherie0206@hotmail.com>
Subject: Fw: Tes mony - West Pico Drill Site - July 9, 2020 - Submission by Cherie Lewis

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From: Cherie Lewis <cherie0206@hotmail.com>
Sent: Thursday, July 9, 2020 9:15 AM
To: Cherie Lewis <cherie0206@hotmail.com>
Subject: Tes mony - West Pico Drill Site - July 9, 2020 - Rabbi Yonah Bookstein

My name is Cherie Lewis, and I am an a orney. I am a senior ciz en who often shops near the area of the West Pico Drill Site. Because of the polluted air and foul smell emanang fr om the Drill Site, I limit my me in the ar ea. It is very sad for me that I cannot freely shop in my own neighborhood due to serious health concerns. I am sad for the children in the nearby public and private schools who are exposed to this unhealthy situaon f or many hours on every school day. To start the process of remedying this unacceptable situaon, I s trongly support the plan to correct violaons of the e xisng Se lemen t Agreement, California state law, and Los Angeles city law. I strong support the plan to monitor Drill Site on a 24/7 basis and conduct annual inspecons of the Drill Sit e. I thank the Drill Site company for its willingness to improve its conduct and work with the neighborhood. I have heard that the office of Paul Koretz is opposed to this plan, and I am very disappointed. I call upon Mr. Koretz to review his stance on this ma er and to work with his constuen ts in the neighborhood to improve this unhealthy situaon. My f ocus today is forward-looking. Therefore, I request that the Zoning Administrator accept this plan so that the long overdue process of remedying this unhealthy situaon c an begin as soon as possible. Thank you.

Cherie S. Lewis
A orney

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Linda Theung testimony

Re: 9101 West Pico Boulevard (Case # ZA-1989-17683-PA2 / CEQA # ENV-2020-1328-CE)

Testimony delivered on Thursday, August 27, 2020

My name is Linda Theung. I am a Board Member of the South Robertson Neighborhoods Council, and I am speaking on behalf of the NC. The West Pico Drill Site is located within the boundaries of our NC's boundaries. Our Governing Board discussed this Review, the compliance problems at the site, and the need for new ZA-assigned conditions at meetings in January, February, and June of this year. We sent letters to the ZA after each of those three Board meetings, each time supported by unanimous votes of the Board.

Our NC's board, the community, and our constituents are deeply concerned by the record of compliance problems at the West Pico Drill Site, including odor problems, LA Fire Department and South Coast Air Quality Management District citations for spills and leaks, the failure to hold required Five Year Reviews in BOTH 2010 and 2015, and the shocking fact that 25 unapproved projects have been executed since 2000 with no monitoring at all by the City.

We are also deeply troubled by the City's failure to enforce conditions, by the City's failure to perform a comprehensive compliance inspection before bringing this case to hearing, and by the City's refusal to perform an environmental review under CEQA as required by State law and the City's own guidelines for implementing CEQA.

When our Board voted on June 18, 2020 to send its last letter on this case, we heard at our meeting that the operating oil company, PCEC, was going to acknowledge in writing to the ZA that there have been 25 unapproved projects executed at the drill site since 2000, including the drilling of 2 new wells, the redrilling of 12 existing wells, and the conversion of 10 wells

between producer and injector – all of which expressly require discretionary review and approval by the ZA according to the Los Angeles Municipal Code.

PCEC submitted its letter to the ZA acknowledging that these 25 projects need ZA review and environmental review on June 19, after our Board meeting, so our letter dated June 18 did not reference the full set of unapproved projects, and could not speak to PCEC's responsible request for full and proper environmental review. All of these unapproved projects require CEQA review and are ineligible for Categorical Exemptions according to the City's own guidelines for implementing CEQA. Splitting them from this current review, as the City seems to be doing, would be illegal piecemealing of a larger project so as to obscure the fullness of its environmental impact.

In addition, the obvious failure of existing mitigation measures and need for new mitigation measures also necessitates a CEQA review in this case. According to the 2001 Settlement Agreement and Condition 78 of the 2000 approval, this review is supposed to be a Review of Conditions, and it is supposed to evaluate the "efficacy of mitigation measures" and change them if warranted. Any analysis of mitigation measures must be done through the CEQA process, according to the State's CEQA law. The evidence of the need for revised conditions is beyond dispute. PCEC agrees that new and improved conditions are needed. Yet the City persists in refusing to do the environmental review required by CEQA.

The South Robertson Neighborhoods Council reiterates its follow positions on this matter:

- This review needs to follow the requirements of the 2001 Settlement Agreement.
- That a Comprehensive Compliance Inspection by the City's Petroleum Administrator needs to be conducted, with a publicly accessible report, before this review goes to hearing.
- That proper environmental review under CEQA is required and a Categorical Exemption is absolutely wrong.

- That new conditions are clearly needed to require
    - Annual Compliance Inspections for compliance with ZA conditions and City code
    - Permanent 24/7 Emission Monitoring with recorded data that is reported publicly to the City on a quarterly basis
    - And to write into the ZA assigned conditions the requirement of Five Year Reviews of Conditions from the 2001 Settlement Agreement, which was affirmed in 2001 by then Council member Mike Feuer and the rest of City Council.

These are reasonable and viable requests. The site operator appears to agree they are necessary, too. The City should commit to these reviews.

More than just reasonable requests, they are what is required by law. CEQA is State law. The City's guidelines on implementing CEQA in oil cases are the ZA's own guidelines. Mike Feuer and City Council voted to approve the Settlement Agreement in 2001. City Council in 2017 voted to look into emissions monitoring. City Council in 2018 voted to request the City Attorney to draft an ordinance to require annual compliance inspections.

Nevertheless, the City is not complying with CEQA, its own guidelines, its own Municipal code, or the Settlement Agreement it signed in 2001. All of this puts our community at risk, and it is wrong.

Connect Create Collaborate

Dylan Sittig <dylan.sittig@lacity.org>

ZA-1989-17683-PA2 (comment from the previous hearing)

Daniel Skolnick <daniel.skolnick@lacity.org> Thu, Aug 27, 2020 at 9:34 AM
To: Dylan Sittig <dylan.sittig@lacity.org>

This is an oil-drilling site with an egregious record that Councilman Koretz wants to shut down as quickly as possible.

This is a site with a history expired permits, unpermitted activity, and numerous violations, including fire/life safety violations that endanger our community.

One of the ways that bad actors prolong their bad behavior is by making additional discretionary request and studies- including superfluous environmental review because bad actors know that it will take years to process and complete.

As long as the City has an application in review, Departments and the City Attorney have limited leverage to force compliance. Why? Because if the City takes an applicant to court the judge will ask for the City to complete the process and then attempt to gain local compliance, and only after all those additional steps are exhausted will the item will be heard in court.

However, now the project is going through a DCP plan approval for compliance review with no proposed changes. The proposed environmental review is a CE. Community advocates are unwittingly requesting an initial study, and the applicant (the operator) is happily agreeing.

The completion of this process with the commensurate inspections will be enough to begin shutdown and revocation. Further environmental review and study will delay the process to the benefit of the operator and the detriment of the community.
We have a process, and Councilman Paul Koretz requests that the process is completed, correctly, accurately, and without delay.

Paul Koretz
Councilmember • 5th District • City of Los Angeles

Daniel Skolnick
Senior Planning Deputy
Councilmember Paul Koretz, Fifth District
200 North Spring Street, Room 440, Los Angeles, CA 90012
(213) 473-7005 Los Angeles City Hall Office
Email: daniel.skolnick@lacity.org

PLEASE NOTE: All email correspondence with the office of Councilmember Paul Koretz (including any attachments), along with any associated personal identifying information, is considered a public record under the California Public Records Act and may be subject to public disclosure under the Act.

August 26, 2020

Dylan Sitting, City Palnning Asscoaiae
200 N. Spring Street, Room 720
Los Angeles, CA 90012
dylan.sittig@lacity.org

RE: Public Hearing on Pico Drill Site Set For Thursday, August 27th

Dylan Sittig,

For more than 40 years, Liberty Hill Foundation has been Los Angeles' epicenter for social justice, incubating cutting-edge social movements, transforming neighborhoods, and empowering the leaders of tomorrow. Liberty Hill is committed to racial equity, LBGTQ rights, economic opportunity, and environmental justice.

As a non-profit organization operating in Council District 5, Liberty Hill Foundation is aware and concerned about the detrimental environmental and public health implications on residents and other community stakeholders (e.g. business owners, workers, hospital patients, school children, etc.) connected to the exposers of the West Pico Drill Site. It has been well documented health costs associated with living near oil and gas wells include cancer, respiratory illnesses, preterm birth risks and high risk pregnancies. The toxins of active oil drilling are particular harmful to children and pregnant women [1]. In 2015, Liberty Hill published *Drilling Down:The Community Consequences of Expanded Oil Development in L.A.* , a report which details the negative health impacts experienced by front line communities facing oil drilling from South LA to the Harbor area.

Additionally, compounded by the public health risky of COVID-19, multiple studies have found that exposure to higher amounts of air pollution also increases a population's vulnerability to the coronavirus. A major study of air pollution and COVID-19 mortality in the United States found that exposure to even a small increase in fine particulate matter ($PM_{2.5}$) was linked to an 8% greater chance of dying from COVID-19.[2] We can no longer sacrifice our health and the health of our children, neighbors, and friends to the oil and gas industry.

Liberty Hill Foundation recommends the immediate closer of West Pico Drill the as part of a 2,500 ft public health and safety buffer we support to be enacted by the City and County of Los Angeles. The Culver City Council has recently passed to close the oil drilling in the Inglewood Oil fields in their district. We advocate for Department of City Planning Office of Zoning Administration and Councilman Koretz stand on the right side of history and move away from the production of oil and towards sustainable energy practices in CD5 and the entire City of Los Angeles.

Sincerely,

Bayoán Rosselló-Cornier
Senior Program Manager, Environmental Health & Justice
Liberty Hill Foundation

[1] Fleming, J.C, Kim, C. *Danger Next Door: the top 12 Toxics Used for Neighborhood oil Drilling in Los Angeles*. Los Angeles, CA: Center for Biological Diversity. 2017

[2] Wu, Xiao et al., Exposure to air pollution and COVID-19 mortality in the United States, medRxiv (April 5, 2020) ("Xiao 2020"), https://doi.org/10.1101/2020.04.05.20054502; see also Friedman, Lisa, *New Research Links Air Pollution to Higher Coronavirus Death Rates,* N.Y. Times, April 17, 2020, https://www.nytimes.com/2020/04/07/climate/air-pollution-coronavirus-covid.html.

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310-798-2400 Ext. 3

August 24, 2020

Via U.S. Mail and Email (dylan.sittig@lacity.org, theodore.irving@lacity.org)

Associate Zoning Administrator
Theodore Irving
c/o Dylan Sittig, City Planning Associate
200 N. Spring St, Room 720
Los Angeles, CA 90012

Re: ZA-1989-17683-PA2; Need for Comprehensive Review of Conditions at the West Pico Drill Site (9101 & 9151 W Pico Blvd, Los Angeles, CA 90035) to Address Numerous Legal Violations and Community Impacts

Dear Mr. Irving,

On behalf of Neighbors for A Safe Environment (NASE), a California nonprofit corporation, we seek to address ongoing and emerging legal violations at the West Pico Drill Site (9101 & 9151 West Pico Blvd, Council District 5) that have led to a failure to provide necessary protections to the community surrounding this drill site. NASE has extensively communicated with the Zoning Administrator (ZA) and documented the bases of its concerns. NASE has also cooperated with the operator of the West Pico Drill Site, the Pacific Coast Energy Company (PCEC), and together with PCEC presented a set of practical solutions to the ZA. We urge the City to implement the reasonable and viable remedies we have previously presented and which are outlined below.

Unfortunately, thus far, the City has failed to act on the remedies NASE has proposed, including NASE's request for a Review of Conditions as per the procedures required by the 2001 Settlement Agreement between NASE, the City and the West Pico Drill Site operator and Condition 78 of the 2000 approval in ZA-1989-17683-PAD. Additionally, despite clear requirements in the City's Municipal Code and ZA Memo 133 for discretionary approval supported by environmental review for any oil well drilling, redrilling or conversion project, the City persists in relying on inapplicable categorical exemptions from the California Environmental Quality Act (CEQA) for approvals. Thus far, the City has also refused to impose

necessary modification of conditions to correct a great many ongoing violations of CEQA and City law by the City, as well as by the current and prior site operators.

NASE has retained our firm to make another effort to convince the City to bring its own practices of land use regulation and petroleum administration into compliance with the 2001 Settlement Agreement, CEQA, and City law. This letter outlines the remedies that would achieve those simple goals and provide necessary protection for the surrounding community. It also gives the City notice that if persistent violations are not rectified, NASE is prepared to seek legal remedies to require compliance with the Settlement Agreement and enforce CEQA and City law. We hope that the City will prefer to open discussion about a reasonable set of remedies.

A. NASE Urges the City to Adopt Remedies to Address Legal Violations and Impacts to the Community.

From its initial communication with the Chief ZA in November 2019 up until now, NASE has asked for only modest and eminently viable remedies to alleviate impacts to the community and ensure compliance with the law. NASE has requested that ZA-1989-17683-PA2 be a Review of Conditions, as mandated by the 2001 Settlement Agreement and Condition 78 of the 2000 approval in ZA-1989-17683-PAD. Pursuant to the 2001 Settlement Agreement and Condition 78, the review must:

- examine the West Pico Drill Site's compliance with conditions of approval;
- assess "neighborhood impacts;" and
- evaluate the "efficacy of mitigation measures," with modification of the mitigation measures and/or corrective measures "if warranted."

As set forth herein, this Review of Conditions must be comprehensive, legally compliant and must impose new conditions to address ongoing violations and impacts and correct significant errors in the 2000 approval for the West Pico Drill Site.

1. The Review of Conditions Must Include a Comprehensive Compliance Inspection.

The Review of Conditions for the West Pico Drill Site needs to be prefaced by a Comprehensive Compliance Inspection led by the Office of the Petroleum Administrator. This Review of Conditions should follow the example of the one and only Comprehensive Compliance Inspection of an oil drill site ever conducted by the City—the Rancho Park Drill Site inspection conducted in March/April 2017. Only a full inspection by a qualified professional can fully define the scope of the project in the current review. Thus, the inspection is necessary to

inform compliance with conditions of approval, CEQA clearance and, by the same measure, inform the ZA and the public regarding corrective measures that should be required.

2. The City Must Comply with ZA Memo 133 in its Review of Conditions By Requiring CEQA Review for the Projects on the Drill Site.

The Review of Conditions for the West Pico Drill Site must be compliant with CEQA and with the City's own guidelines in ZA Memo 133. It has been established beyond the shadow of a doubt that mitigation measures from the 2000 approval and its associated EIR have failed to protect the community. Odor complaints from the community are well document and are matched by testimony from Council Member Paul Koretz. The Los Angeles Fire Department also imposed citations on the operators of the West Pico Drill Site for leaving petroleum exposed on surfaces in 2017 and 2018.

Multiple conditions from the 2000 approval have been violated, and the City has failed to enforce mitigation measures established through the associated EIR. Conditions 46, 47, 53, 57, 61, 72, and 78 (concerning odors, nuisance, good oil field practices, redrilling, and reviews of conditions) have all been violated. "Mitigating conditions are not mere expressions of hope." (*Lincoln Place Tenants Ass'n v. City of Los Angeles* (2005) 130 Cal.App.4th 1491, 1508.) CEQA requires mitigation measures to be concrete and enforceable. (Pub. Resources Code § 21081.6(b).) From at least 2006 to the present the ZA and the City have failed to monitor or enforce these conditions in violation of CEQA.

In addition to those ongoing CEQA violations by the City, PCEC has stepped forward to do honest research on projects executed at the site since 2000. PCEC agrees with NASE that there have been 25 unapproved projects, including 24 projects on oil wells that require discretionary review by the ZA according to City code, and thus CEQA clearance by State law. ZA Memo 133 directly states that proposals to drill, redrill, or convert wells are ineligible for categorical exemptions under CEQA. The 25 unapproved projects and the obvious need to revise mitigation measures makes reliance on categorical exemptions utterly improper. An Initial Study and an MND are required, at minimum, and that is what NASE requests.

3. The Continuing Impacts to the Community Demonstrate a Need to Impose New Conditions Through the Review of Conditions.

The ongoing impacts to the community surrounding the West Pico Drill Site, and the numerous violations of existing conditions of approval, demonstrate a clear need to impose new conditions through the Review of Conditions process to prevent these problems from continuing.

Based on NASE's familiarity with the impacts to the community and the existing conditions, it is our position (supported by PCEC) that the following new conditions must be adopted:

- Annual Compliance Inspections led or overseen by qualified professional staff in the Office of the Petroleum Administrator.

- Permanent 24/7 Emissions Monitoring, with recorded data that is reported to the Petroleum Administrator, the ZA, and the public on a quarterly basis.

- Incorporation of the requirement of cyclical Five Year Reviews of Conditions from the 2001 Settlement Agreement into the ZA conditions for the site, using the full procedures delineated in Condition 78 of the 2000 approval as per the Settlement Agreement.

- Immediate Emergency and Accident Reporting to the City (to LAFD, the Petroleum Administrator, and the local Council office) for any emergency or accident that must be reported to any Federal, State, or regional agency.

The need for additional conditions may be identified through the comprehensive compliance inspection as well.

4. The Review of Conditions Must Correct Several Errors from the 2000 Approval.

The Review of Conditions for the West Pico Drill Site must also correct significant errors from the 2000 approval that are inconsistent with City law, the actual record of approvals for the site, and the facts of what actually exists at the site. Those errors include:

- **Delete Condition 72 to Eliminate its Contradiction with LAMC 13.01.H and 13.01I.** This condition addressing "redrilling" directly contradicts the provisions of Los Angeles Municipal Code sections 13.01.H and 13.01.I. Both of these sections require discretionary approval by the ZA before any oil well is drilled, redrilled, or converted between producer and injection well. The contradiction may have contributed to the rash of unapproved projects at the site since 2000, including the redrilling of 12 wells since 2000 without ZA review, approval, or CEQA clearance. Condition 72's undermining of LAMC 13.01.H and 13.01.I on drilling and redrilling wells may have also contributed to the conversion of 10 wells since 2000 without ZA review, approval, or CEQA clearance per the requirements of ZA Memo 133.

- **Correct the Number of Existing Wells.** The 2000 ZA approval for the West Pico Drill Site incorrectly asserts that 69 wells existed at the site in 2000 and that 69 wells had been approved. Only 59 wells currently exist at the site, and only 57 existed in 2000. Only 57 wells have been approved for the site by the ZA. The ZA's error in 2000 reflected a lack of knowledge about the drill site, a lack of knowledge about the difference between a well cellar and a well, and a failure to cross-check with State records from DOGGR (now CalGEM) even as the ZA wrote conditions requiring that all monitoring agencies need to be consulted. This error may have contributed to the drilling of unapproved wells without CEQA clearance in 2005 and 2010.

- **West Pico Drill Site Includes Both 9101 and 9151 West Pico Blvd as a Single Controlled Drill Site.** The 2000 approval improperly split the single integrated "Controlled Drill Site" into two sites because the operator in 2000 proposed a construction project that would occur on only one half of the site. This error runs afoul of LAMC 13.01, especially 13.01.E.2.b. A Controlled Drill Site is the only kind of conditionally approved land use on which oil can be produced from wells and processed for sale. Only one Controlled Drill Site can exist in Oil Drilling District U-131, and only one has ever been approved: namely the West Pico Drill Site, approved in ZA-1965-17683. The ZA severed the unified Controlled Drill Site into two in 2000, leaving both without a legally sustainable basis for operation. This error also may have contributed to the improper installation of microturbines by obscuring the prohibition against electric generation on the Controlled Drill Site or anywhere in the Oil Drilling District that was written into the 1965 approval to establish the Controlled Drill Site. The 2000 approval, which completely rewrote and supplanted the 1965 approval, also prohibits electric generation at the West Pico Drill Site. By improperly splitting the Controlled Drill Site in two, the 2000 approval left the other half of the Controlled Drill Site without any approval or conditions in place.

B. These Remedies Are Necessitated by the Ongoing and Potential Legal Violations.

NASE has chosen to focus on remedies in this communication in a continuing effort to achieve relief for the community and legal compliance by the City. However, the description of the remedies, above, should provide you with an indication of some of the legal violations we may seek to challenge in court, if necessary. These include:

- Ongoing violations of CEQA for the City's failure to enforce mitigation measures from the EIR associated with the 2000 approval for the West Pico Drill Site.

- Failure to require CEQA review for discretionary, and recently discovered, well drilling, redrilling and conversion projects at the West Pico Drill Site.

- The proposed improper reliance on categorical exemptions for the current review of the West Pico Drill Site.

- Failure to enforce LAMC 13.01.H and 13.01.I by allowing operation of 25 unapproved oil well projects on the West Pico Drill Site.

- Violated LAMC 13.01.E.2.b by dividing the Controlled Drill Site into two sites in 2000.

- Breach of the 2000 Settlement Agreement due to the City's failure to conduct the required five-year reviews for the West Pico Drill Site for at least the last 10 years. No legally required reviews have been held during Councilmember Koretz's term in the City Council until NASE demanded this review in November 2019.

- The current ZA review process also appears to be running afoul of the requirements of the 2000 Settlement Agreement, CEQA and City regulations due to its improperly narrow focus and the ZA's stated position that the process would not result in the modification of any conditions.

Conclusion

The problems at the West Pico Drill Site are not isolated incidents and they are not unknown to City officials. The City has been negligent in its land use-based regulation of oil drill sites, failing to protect the communities impacted by these drill sites. It has never performed regular inspections to monitor for compliance with ZA-assigned conditions, and so mitigation measures routinely are not followed and not enforced. Similarly, the City continues to engage in a pattern and practice of handing out categorical exemptions from CEQA review for oil projects, contrary to the requirements of CEQA, ZA Memo 133 and LAMC 13.01.H and 13.01.I. Taken together, this pattern of negligence gives a green light to unapproved projects and turns a blind eye to poor work practices, all at the expense of communities the City is supposed to protect.

Most confounding here is the City's refusal to address environmental, health, and safety protections when an operating oil company comes forward to join with the community in asking the City to implement CEQA properly and to do inspections, require emissions monitoring, and perform serious reviews. This situation must be remedied. It is NASE's hope that the current ZA process can be revised to begin to address these ongoing issues, but if not, we are prepared to pursue available legal options.

Thank you for your time and consideration in this matter.

Sincerely,

Amy Minteer

cc:
City Attorney Mike Feuer c/o maria.mattera@lacity.org
Assistant City Attorney Terry Kaufmann-Macias - terry.kaufmann-macias@lacity.org
Deputy City Attorney Jennifer K. Tobkin - jennifer.tobkin@lacity.org
Director of City Planning Vince Bertoni - vince.bertoni@lacity.org
Deputy Director of City Planning Lisa Webber - lisa.webber@lacity.org
Chief Zoning Administrator Estineh Mailian - estineh.mailian@lacity.org
City Planner Edber Macedo - edber.macedo@lacity.org
Acting Petroleum Administrator, Erica Blyther - erica.blyther@lacity.org
Council Member (CD5) Paul Koretz - paul.koretz@lacity.org
CD5 Chief of Staff Joan Pelico - joan.pelico@lacity.org
CD5 Senior Land Use Deputy Daniel Skolnick - daniel.skolnick@lacity.org
CD5 Director of Environmental Affairs Andy Shrader - andy.shrader@lacity.org
Emily Alpert Reyes (LA Times) - emily.alpert@latimes.com
Richard S. Weiner (NASE) - rswatty@ca.rr.com
Dr. Rae Drazin (NASE) - rae@md-advocate.net
Professor Michael Salman - salman@history.ucla.edu

Connect Create Collaborate

Dylan Sittig <dylan.sittig@lacity.org>

Zoning hearing on oil drilling at Pico and Robertson

3 messages

Amy Schweiger <aschweiger@libertyhill.org> Mon, Aug 24, 2020 at 1:55 PM
To: "dylan.sittig@lacity.org" <dylan.sittig@lacity.org>

Dear Dylan,

I am writing in regard to the zoning hearing on the drill site at the corner of Pico and Roberson. As a longtime resident of Beverlywood - and Councilmember Koretz's district -- I was shocked to find out that we had a dangerous, non-compliant oil drill site in our neighborhood, less than a mile from my home.

I am a supporter of STAND-LA and their demand for a 2,500 foot setback between oil drill sites and sensitive sites such as schools, homes and houses of worship. This drill site is mere feet from a busy synagogue and a day school as well as homes and businesses. Every day, children and families are exposed to an array of toxic chemical emanating from this site. PM2.5 exposure is linked to a higher chance of dying from COVID, as well as increased rates of asthma and other respiratory diseases.

I urge the City Council to close this dangerous drill site - and to move towards passing the 2,500 foot setback ordinance.

Thank you,

Amy Schweiger
2027 Hillsboro Avenue
Los Angeles, CA 90034
(310)558-9330

Dylan Sittig <dylan.sittig@lacity.org> Mon, Aug 24, 2020 at 2:06 PM
To: Amy Schweiger <aschweiger@libertyhill.org>

Hello,

Thank you for your comment. I will add it to the case file.

Sincerely,
Dylan
[Quoted text hidden]
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LOS ANGELES CITY PLANNING

Dylan Sittig
City Planning Associate
Los Angeles City Planning
200 N. Spring St., Room 720
Los Angeles, CA 90012
Planning4LA.org
T: (213) 978-1197

Amy Schweiger <aschweiger@libertyhill.org> Mon, Aug 24, 2020 at 2:08 PM
To: Dylan Sittig <dylan.sittig@lacity.org>

Thank you. And a correction - the well is in the Pico Robertson neighborhood but at the corner of Pico and Doheny.

Amy

Sent from my iPhone

> On Aug 24, 2020, at 2:07 PM, Dylan Sittig <dylan.sittig@lacity.org> wrote:

Rabbi Yonah Bookstein
1480 Rexford Dr., Los Angles, CA 90035

August 12, 2020

Dear Associate Zoning Administrator Irving,

I am writing to regarding West Pico Drill Site (ZA-1989-17683-PA2).

My wife and I and our four children reside in the neighborhood directly impacted by the West Pico Drill Site. We have lived here since 2004. I'm extremely concerned about air pollution, safety issues, compliance issues and odors from the drill site.

I urge you to require an immediate and thorough compliance inspection and 24/7 emissions monitoring of the site to protect public health and safety.

I am also VERY concerned about the lack of environmental review under CEQA. We now know that there are 25 unapproved projects at the site, in addition to numerous previous safety violations.

My office and prayer meeting space have been located directly across the street from the Drill Site since 2016. During that time we have had multiple occasions when the overbearing smell of oil drove us to close windows and even leave the building.

In the fall of 2019, I was able to look inside the drill site as their doors were left open. (A child could have wandered in as well!) The stench of oil was overpowering, and it looked like the scene of an industrial facility that we might find on the far outskirts of a city. However, this THE DRILL SITE SITS IN THE MIDDLE OF A DENSE RESIDENTIAL NEIGHBORHOOD.

Rabbi Yonah Bookstein
1480 Rexford Dr., Los Angles, CA 90035

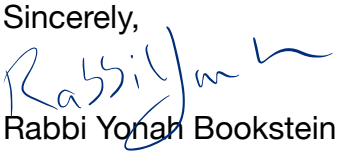
There are many potential issues with oil and gas drilling that are well known to scientists and physicians. People near these sites can be exposed to: benzene, volatile organic compounds, and petroleum which are all area dangerous to your health. The longer and more sustained the exposure the worse it is. Children and the elderly are likely more vulnerable. Some of the potential harm linked increased exposure to these chemicals can include: increased risk of premature births, headaches, nosebleeds, and in extreme cases cancers, miscarriage, and birth defects.

Based on the potential hazards, our first-hand experience with odors and exposure to polluted air, the documented unapproved projects, the safety violations and the proximity of the site to schools, synagogues, and citizens - please require an immediate compliance inspection and 24/7 emissions monitoring of the site **before any decision is reached on the future of the site.**

The residents, tax-payers, businesses, and the ZA deserve to know what is going on there before reaching any decision on the future of the site.

As a Rabbi I will add a point about ethics and morality. It is morally wrong that billboards in Los Angeles have more oversight that nearly 60 oil wells in our densely populated neighborhood, next to multiple schools, houses of worship, and of course our homes.

Sincerely,



Rabbi Yonah Bookstein

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Dylan Sittig <dylan.sittig@lacity.org>

Strong Smell of Gas Morning of July 22nd, 2020

Christina Pisani <chriscpisani@gmail.com> Wed, Jul 22, 2020 at 6:55 AM
To: Dylan Sittig <dylan.sittig@lacity.org>

Good morning Mr. Sittig,

I just returned from walking my dog and there is a very strong smell of gas in the area directly surrounding the oil site on Pico and Doheny. This is highly concerning and as a community we have not been provided an unbiased 3rd party inspector who can come assess the issue.

Please let me know who I can reach out to next time this occurs and please let me know what your team is doing to resolve this issue.

-Christina Pisani

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Dylan Sittig <dylan.sittig@lacity.org>

"Public" Hearing

Christina Pisani <chriscpisani@gmail.com> Fri, Jul 10, 2020 at 8:17 AM
To: dylan.sittig@lacity.org

Dear Mr. Sittig,

My name is Christina Pisani and I spoke yesterday at the "public" hearing. I would like to express my deep level of concern of how the hearing was handled. The information provided to the public was incorrect and when members of the community (multiple) reached out for answers they were told the line worked for "many people", which was clearly not true. This was by no means a public hearing and we demand a second hearing and to be provided enough time to organize and inform the community. I personally, upon hearing about this hearing created flyers (as you can see attached here) and distributed hundreds around my community to get people involved. I had people reach out to me directly via email and on NextDoor saying they were unable to access the meeting. This is simply unacceptable. The lack of transparency in which your department and the oil company hide behind shows how corrupt and flawed this office is. You have placed profits over people. Over the people and communities you were hired to serve. We here in the community are constantly at risk living dangerously close to an active oil site, with questionable and illegal activities occurring behind windowless walls, in a building purposefully designed to look like a synagogue in a Jewish neighborhood to avoid suspicions.

I would like to request the following actions be taken:

1) Pacific Coast Energy Company LP **MUST** implement 24/7 emissions monitoring systems immediately. This should've been implemented a long time ago as this technology has been accessible for decades. Homes, places of worship and families are located within feet of this site and it astonishes me that this has not been enforced. It feels ridiculous that we have to even ask.

2) Annual inspections by a 3rd party organization. Annual inspections. Annual inspections. Annual inspections. Again, why are we even having to ask?

3) Transparency to the community and community outreach to educate nearby residents on:

- Who to call to place concerns around odors or safety (NOT the oil company itself)
- What to do in the case of an emergency/ what does "Shelter in Place" mean
- And transparency on the company's activities- permit statuses, illegal activities, and a public website that is updated quarterly on leaks or other incidences.

I would also like to be notified directly as to when the next meeting will be. I never received anything in the mail about this past meeting and only came to hear about it after my neighbor received a letter in the mail and told me. Obviously, your department is failing to get these letters out to ALL members of the community. Which is why I took it upon myself to inform my neighbors and will be doing so again.

Our government is failing us.
Concerned citizen,
Chrisna Pisani

Oil Drilling.pdf

END OIL DRILLING IN OUR NEIGHBORHOOD!

FACTS:

- **9101 West Pico Blvd (corner of Pico Blvd & Doheny) is the site of 40 active oil drills and the city is in the process of reviewing if changes should be made to current regulations.**
- The site is 100 ft from homes, schools, synagogues and businesses.
- Studies suggest that oil drills should not be within 2,500 ft of residences to protect people's health and safety (EHP.org & Stand.LA).
- Drilling sites are known to have detrimental health and environmental impacts on the communities they occupy, including cancer, asthma, frequent headaches, nose bleeds and environmental pollution.

WHAT YOU CAN DO:

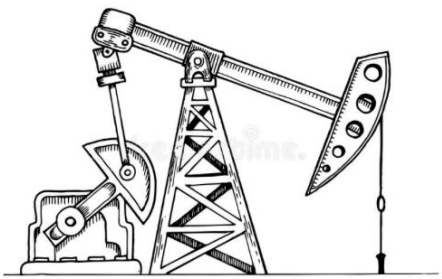
Attend the upcoming virtual public hearing to have your voice heard!

Email City Planning Associate Dylan Sittig at Dylan.sittig@lacity.org for information regarding the site and to also demand change!

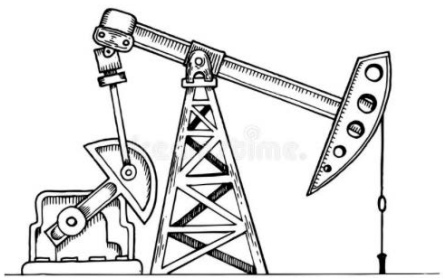
WHEN:

Thursday, July 9th
9:00AM

Dial in by phone:
(699) 900-9128
Meeting ID#:
944 0679 8653#



For more information from your local concerned neighbor please contact Christina at chriscpisani@gmail.com



Dylan Sittig <dylan.sittig@lacity.org>

Fw: West Pico Drill Site (ZA-1989-17683-PA2) - Comment in Favor of Annual Compliance Inspection & Continuous 24/7 Emissions Monitoring

Cherie Lewis <cherie0206@hotmail.com> Thu, Jul 9, 2020 at 10:15 AM
To: "dylan.sittig@lacity.org" <dylan.sittig@lacity.org>
Cc: "estineh.mailian@lacity.org" <estineh.mailian@lacity.org>, "vince.bertoni@lacity.org" <vince.bertoni@lacity.org>, "lisa.webber@lacity.org" <lisa.webber@lacity.org>, "councilmember.koretz@lacity.org" <councilmember.koretz@lacity.org>, "andy.shrader@lacity.org" <andy.shrader@lacity.org>, "joan.pelico@lacity.org" <joan.pelico@lacity.org>, Rabbi Yonah Bookstein <rabbiyonah@gmail.com>, Cherie Lewis <cherie0206@hotmail.com>

From: Cherie Lewis <cherie0206@hotmail.com>
Sent: Thursday, July 9, 2020 9:39 AM
To: Cherie Lewis <cherie0206@hotmail.com>
Subject: Fw: Tes mony - West Pico Drill Site - July 9, 2020 - Submission by Cherie Lewis

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From: Cherie Lewis <cherie0206@hotmail.com>
Sent: Thursday, July 9, 2020 9:15 AM
To: Cherie Lewis <cherie0206@hotmail.com>
Subject: Tes mony - West Pico Drill Site - July 9, 2020 - Submission by Cherie Lewis

My name is Cherie Lewis, and I have resided for over a decade in the neighborhood of the West Pico Drill Site. I am a senior ciz en, and like many senior ciz ens, I have medical issues. I like shopping in the stores on Pico Blvd., but I generally limit my shopping me in the s tores near the corner of Pico & Doheny because of the foul smelling air. It is my understanding that the source of the foul smelling air is the West Pico Drill Site. I am able to smell the foul air when I visit this area, but unfortunately, I am unable to discern the contaminants in the air. This situaon is a sour ce of connuing s tress for me and my friends, both seniors & non-seniors. We are sad that we are unable to freely shop in the area near Pico & Doheny because of air polluon c aused by the West Pico Drill Site. We are sad that health concerns limit our ability to freely shop in our own neighborhood. Our self-exposed limitaon is c aused by our unwillingness to expose ourselves to polluted air in the area. To start the process of remedying this unacceptable situaon, I s trongly support a plan to conduct annual inspecons of this drill sit e, starng in July 2020. I also support a plan t o connuously monit or this drill site on a 24/7 basis. It is my understanding that many persons have requested this plan over a period of years, and that this plan has not yet been accepted by the City of Los Angeles. It is also my understanding that the company that operates the drill site has recently agreed to this plan. My focus today is forward-looking. Therefore, I request that the Zoning Administrator accept this plan today so that the process of annual inspecons and c onnuous monit oring can begin as soon as possible. Thank you.

Cherie Lewis, Esq.
1201 Roxbury Drive, Unit 106
Los Angeles, California 90035

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Dylan Sittig <dylan.sittig@lacity.org>

Requested writing of my public testimony

Aria Z <ariazarifpourlaw@gmail.com> Thu, Jul 9, 2020 at 9:42 AM
To: Dylan Sittig <dylan.sittig@lacity.org>

I would like to note that the phone number on the flyers given to the public did not contain the correct number, potentially reducing the number of participants at the hearing today. I would like to see a paper with correct information and an additional hearing for the public so those in the who missed today's hearing can give their public testimony.

Hello, my name is Aria and I would like to see the same level of care and sensitivity provided to preventing the combustion of the operator's drilling investments, extended to this community.

This facility's lack of compliance to initiate a review every five years, mandated 14 years ago to ensure the safety of this community, demonstrates their indifference to ensuring such safety.
We have been left in the dark for 14 years.

With this lack of accountability in mind, I propose 3 initiatives:
1. The installation of on site 24/7 sensitive air quality monitors, which would include levels of benzene emissions, to ensure air quality problems are caught on the spot and do not linger, such as the 50 PPM leak violation in February of this year.
2. An independent, third party, oversight commission, with no ties to or influence from the Pacific Coast Energy Company. The purpose of this commission would be to ensure oversight and compliance of this facility, as it is obvious there they have no incentive to so and the city is too overwhelmed to keep such a close eye on operations.

3. Long term studies conducted to find any correlation with higher health risks associated with living within a 1500 foot radius of the site, corroborated with on-site testing and ambient measurements.

4. Tri-annual on-site testing of the various emissions and compliance

I hope that the safety and health of this community is more important than keeping the status quo of noncompliance.

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Dylan Sittig <dylan.sittig@lacity.org>

Re: hearing

Michael Salman <salman@history.ucla.edu> Thu, Jul 9, 2020 at 9:18 AM
To: Edber Macedo <edber.macedo@lacity.org>, Dylan Sittig <dylan.sittig@lacity.org>

and he just said 5 minutes for representative of groups.

yesterday i was told everyone gets the same 1 to 3 minutes, or 2 to 3 minutes.

this is a procedural irregularity inimical to the mandate for collecting testimony and transparency.

ZA is also asking people to somehow indicate whether they are for or against the project> What is the project? The city refused to do an inspection and evaded CEQA, so the project has not been defined in any adequate way.

and now he says a Class 1 CE, which is not on the notice and there is no other documentation.

Connect Create Collaborate

Dylan Sittig <dylan.sittig@lacity.org>

Do Not Drill at 9101 West Pico Blvd!!

leana masi <leanamasi@yahoo.com> Thu, Jul 9, 2020 at 1:36 PM
To: "dylan.sittig@lacity.org" <dylan.sittig@lacity.org>

Please be responsible and not allow this as it is a safety hazard for all who live here. Especially babies and the elderly

Thank you
L Masiello

Date: July 8, 2020

Office of Zoning Administration
Edber Macedo, City Planning Associate
(edber.macedo@lacity.org)
200 N. Spring St., Room 763
Los Angeles, CA 90012

PCEC continues to work with stakeholders and the City regarding efforts to address issues of community concern and to implement measures that will improve the overall safety and compliance of the West Pico facility. In follow up to our discussion, and in preparation for the upcoming July 9, 2020 public hearing concerning case ZA-1989-17683-PA2, PCEC reiterates its commitment to working with the City on the development of appropriate conditions of approval to address the following issues:

1. The three items outlined in our June 19, 2020 email – see attached. It is our understanding that the development of any conditions needed to address these items is beyond the scope of the pending Plan Approval (PA) process, and that a separate review process will occur within a reasonable time following the Zoning Administrator's decision on the PA to address these items. PCEC is willing to accept a condition to this effect.

2. Annual inspections of site operations by the Petroleum Administrator and/or a qualified third party approved by the Petroleum Administrator, in concert with such other City agencies as the Petroleum Administrator and/or City Code deems necessary, in order to evaluate compliance with City Code, conditions assigned in ZA approvals, and City permits.

3. Evaluation of the feasibility of installing a fenceline emissions monitoring system using commercially available equipment that provides continuous monitoring and data recording of quantities of specified pollutants in a manner to be approved by the Petroleum Administrator. The evaluation will consider both the economical and technological feasibility of installing an effective fenceline emissions monitoring system.

PCEC recognizes the importance of working with the City to develop and refine the details of the foregoing proposed conditions so that all parties, including stakeholders, understand the requirements applicable to PCEC's West Pico operations. However, all proposed conditions, as ultimately articulated by the City, must be reasonable and economically and technologically feasible. In addition, the conditions may be replaced by any regulations adopted by the City that are substantially similar or relate to the proposed conditions. Finally, the conditions cannot be inconsistent with applicable federal, state of agency laws or rules.

PCEC is committed to working in good faith with the City, and the community, to develop an appropriate set of conditions adequate to address issues of community concern and to implement measures that will improve the overall safety and compliance of the West Pico facility. Thank you for your time and continued attention to this matter.

Pacific Coast Energy Company LP

1555 Orcutt Hill Road, Orcutt, California 93455 Phone (805) 937-2576 Fax (805)937-4142

Sincerely

Attachments:
June 19th, 2020 Email

Pacific Coast Energy Company LP

1555 Orcutt Hill Road, Orcutt, California 93455 Phone (805) 937-2576 Fax (805)937-4142

Philip Brown

From:	Michael Finch <mfinch@energyprojectllc.com>
Sent:	Friday, June 19, 2020 4:34 PM
To:	Edber Macedo
Cc:	Lisa.Webber@lacity.org; Estineh.Mailian@lacity.org; Vanessa.Soto@lacity.org; Jennifer.Tobkin@lacity.org; Dylan Sittig; Philip Brown; Rick Clark
Subject:	PCEC West Pico Project

Edber, per our conversation here is our thoughts on the items we discussed.

PCEC was recently contacted by a member of the public and several issues and outstanding questions have been brought to our attention, including (1) whether the wells that have been drilled, re-drilled, and/or converted since the 2000 ZA approval required further ZA approval under LAMC 13.01H and 13.01I; (2) whether activities such as drilling, re-drilling, and/or converting wells underwent adequate CEQA review as part of the EIR process for the 2000 ZA approval; and (3) whether Condition #1 of the 1965 ZA 17683 and Condition #B-49 of the 2000 ZAD 17683 need to be modified to reflect that onsite generation of power is occurring on the production site.

With regard to the first issue, after reviewing our well files, and the 2000 ZA determination, it is clear that certain wells have been drilled, re-drilled and converted since that approval – see "Well List" below. In light of LAMC 13.01H and 13.01I, a question has surfaced regarding whether these well activities required further authorization or approval by the ZA. We have not seen any approvals by the ZA and our conclusion is that applications were likely never submitted to the City. We believe this was because of Condition 72 of the 2000 ZAD 17683 determination which states in part *"Without prior written approval from the Zoning Administrator, no more than the existing 69 wells may be drilled, operated or maintained at the site and these wells shall be located at their current surface locations."* This condition suggests that the 2000 ZA approval covered a total of 69 wells and, provided the facility did not exceed the 69 wells, no further ZA approvals for drilling and redrilling were required. However, it appears the facility may not have had 69 existing wells at the time of the determination. This may have been a misunderstanding during the determination between well "slots" vs actual wells. In any event, a question now exists regarding whether the wells that have been drilled, re-drilled, and/or converted since the 2000 ZA approval required further ZA review and approval pursuant to LAMC 13.01H and 13.01I.

A follow along question concerns the scope of environmental review done for the 2000 approval and whether the review covered specific well activities. It's been suggested that as part of the 2000 approval (drill site modernization project) the activity of drilling, redrilling, and converting wells may not have been covered as part of the EIR process. Rather, the 2000 approval covered only construction of the perimeter walls and a permanent derrick, not drilling or well conversions, because apparently these activities were not part of the project description. If this is accurate, a question now exists regarding the adequacy of the currently proposed Categorical Exemption, and whether additional environmental review should be conducted to cover not only past well activities, but also those that are likely to occur in the future.

The last item is the installation of the microturbine. PCEC identified the installation of the microturbine in its February 2020 application to the City. This installation occurred in 2018 and PCEC obtained a SCAQMD permit, LA building permit, and a LA DWP permit. The 1965 ZA 17683 case Condition #1 included a provision, among others, requiring the project to comply with LAMC 13.01F(b)43.

13.01F(b)43 provides:

That drilling, pumping and other power operations shall at all times be carried on only by electrical power and that such power shall not be generated on the controlled drilling site or in the district.

In addition, 2000 ZAD 17683*Condition B-49* provides:
All Electric Power. All drilling and reworking operations at the site shall at all times be carried on only by electric power and such power shall not be generated on the controlled drilling site or in the district.

The 2000 ZAD 17683 Condition B-49 seems to suggest that power generation cannot happen at the controlled drill site or in the district for drilling and reworking operations, therefore the implication would be that this condition would not be applicable to the production operations.

The facility has two separate power meters. One is dedicated to the drill site and the other the production site. The microturbine is dedicated to the production site only. A question now exists whether Condition #1 of the 1965 ZA 17683 and Condition #B-49 of the 2000 ZAD 17683 need to be modified to reflect that onsite generation of power is occurring on the production site.

PCEC is working with historical documents and realize the City may have more insight. We are asking if the wells drilled, re-drilled, and converted since 2000 required a permit under 13.01H and 1301I? Also, did activities such as drilling, re-drilling, and/or converting wells undergo adequate CEQA review as part of the EIR process for the 2000 ZA approval, or is further review now required? Finally, does Condition #1 of the 1965 ZA 17683 and condition #B-49 of the 2000 ZAD 17683 need to be modified to reflect that onsite generation of power is occurring on the production site. If the answers to any of these questions is yes, then we would like to meet to discuss and decide how to address and reconcile these issues as part of the current process. We look forward to any guidance you can give us.

Thank you

Well List

New Drills
WP 58 - 2005
WP 59 – 2010

Redrills
WP 10 – 2010
WP 11 – 2005
WP 18 – 2003
WP 21 – 2003
WP 34 – 2010
WP 41 – 2004
WP 45 - 2004
RW 2 – 2003
OW 8 – 2003 and 2005
PW 9 – 2004
HW 10 - 2004

Conversions
WP 11 – 2006 converted to producer
WP 22 - 2000 convert injection 2007 convert to production
WP 26 – 2006 convert to injection
WP 29 – 2016 rescinded as injector and now idle producer – not really an conversion.

WP 42 – 2000 convert to injection. 2016 plug back and now idle.
WP 44 – 2003 convert to gas injection, 2005 convert to two string water and gas, 2014 rescinded as injector.
SW 7 – 2017 convert to injection
HW10 – it looks like a request was made for emergency gas injection. We know gas injection did not happen and the request was subsequently cancelled.

Mike Finch
Energy Project Solutions LLC
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Bakersfield CA 93309
www.energyprojectllc.com
Cell 661-809-4956

Connect Create Collaborate

Dylan Sittig <dylan.sittig@lacity.org>

submission re ZA-1989-17683-PA2

Michael Salman <salman@history.ucla.edu> Wed, Jul 8, 2020 at 3:58 PM
To: Dylan Sittig <dylan.sittig@lacity.org>, Estineh Mailian <estineh.mailian@lacity.org>, vince.bertoni@lacity.org, lisa.webber@lacity.org, Edber Macedo <edber.macedo@lacity.org>
Cc: Rae Drazin <rae@md-advocate.net>, Richard Weiner <rswatty@ca.rr.com>, Rabbi Yonah Bookstein <rabbiyonah@gmail.com>

Dear Mr Bertoni, Ms Webber, Ms Mailian, Mr. Macedo, and Mr Sittig,

Please see the attached letter and please include it in the case file for ZA-1989-17683-PA2.

I am submitting this a representative for Dr Rae Drazin and Richard Weiner, officers of NASE and parties to the 2001 Settlement Agreement, as well as for myself as a citizen.

Michael Salman

Salman letter to ZA on ZA-1989-17683-PA2.pdf
477K

2533 4th Ave
Los Angeles, CA 90018
July 8, 2020

Re: West Pico Drill Site; ZA-1989-17683-PA2; ENV-2020-1328-CE

Submitted via email to Dylan Sittig, City Planner

Dear Associate ZA Irving,

This is a final pre-hearing submission that I am presenting in my capacity as representative for Richard Weiner and Dr. Rae Drazin, officers of NASE and parties to the 2001 Settlement Agreement, as well as on my own behalf as a citizen.

There are two big categories of compliance problems in this case:

A) Non-Compliance by the operator.

B) Non-Compliance, including and encompassing violations of procedure and failures to perform administrative duties, including but not limited to duties under CEQA, by the City.

Much of this non-compliance has already been extensively documented in written communications and documents sent to the office of the Chief ZA, to the Director and/or Deputy Director of Planning, and/or to the City Planner assigned to this case. Not all of that correspondence is in the case file. It should all be there, and I include it herein by reference.

There are some additional significant instances of non-compliance that need to be noted anew here in this last submission before the public hearing, as well as several major episodes that merit underscoring again.

It will be most expeditious to organize what follows into three parts:

Part 1: Requested Outcome of this Case with a Corrected Process and New Conditions to Produce Compliance Now, Help Ensure Compliance in the Future, and Protect Public Health, Safety, and the Environment.

Part 2: A Summary of Major Episodes of Non-Compliance by the Operator, Which Cannot be Exhaustive Because No Comprehensive Compliance Inspection has Been Conducted by the City.

Part 3: A Statement Objecting to Non-Compliance by the City, Including and Encompassing but Not Limited to Violations of Procedure and Failures to Perform Administrative Duties, both in the Proceedings and Case File of this Review and During the Past 20 Years.

Parts 1 and 2 are the simplest and most straight forward. This is largely due to the admirable cooperation and honesty of the applicant, PCEC.

First, PCEC has acknowledged in writing to the Planning Department (see emails from PCEC dated June 19 and July 8, 2020) that 25 unreviewed projects were executed at the West Pico Drill Site since 2000, including 24 well operations covered by LAMC 13.01.H and 13.01.I, and by ZA Memo 133's guidelines for implementing CEQA in oil cases.

The 25th project was the installation of the microturbines, which PCEC acknowledges required ZA review to provide relief from the prohibition set in Condition 1 of the "mother case," ZA-1965-17683, against electric generation anywhere on any part of the Controlled Drill Site (including the so-called "production facility" located at 9151 W Pico) and anywhere in the Oil Drilling District.

Second, PCEC's letter of July 8, 2020, requests a new condition requiring real annual compliance inspections and commits to exploring the installation of 24/7 emissions monitoring. These are the community's top two requests for new conditions, and the applicant is requesting them, too. The community's other requests for new conditions are very simple: write the required 5 year reviews into a condition so they are not bypassed again and copy the Rancho Park condition about emergency and accident notification into a new condition. This is the consensus solution we have been telling you about.

Together, that means that Parts 1 and 2 of this letter will be the quickest and easiest parts of the letter.

Part 3 is different. The City's non-compliance is a huge mess and we have not yet seen movement to set it right. Part 3 will take more time and space to discuss.

Part 1:
Requested Outcome of this Case with a Corrected Process and New Conditions to Produce Compliance Now, Help Ensure Compliance in the Future, and Protect Public Health, Safety, and the Environment.

We request the following new conditions be required at the whole Controlled Drill Site, as defined by the mother case, ZA-1965-17683, and as expanded as per ZA-1967-18893.

- **Require Annual Compliance Inspections Led or Approved by Petroleum Administrator:** The operator shall formally arrange for an Annual Compliance Inspection to be led by the Office of the Petroleum Administrator OR performed by a professional engineering firm approved by the Petroleum Administrator with Petroleum Administrator review and approval of the final report, to ascertain compliance with City Code and ZA-assigned conditions. Copies of the inspection report to be delivered to the ZA and Council District 5 Office.

- **Require Permanent 24/7 Emissions Monitoring:** Installation and continuous operation of 24/7 Emissions Monitoring using up-to-date equipment that records data and has a central alarm connection to an office that is staffed 24/7. The operator must secure approval of the monitoring system equipment from the Office of the Petroleum

Administrator. Emissions data shall be reported quarterly to the Office of the Petroleum Administrator and the ZA, and both offices shall promptly forward copies of the quarterly data to the Council District 5 Office.

- **Require Recurring Five Year Reviews of Compliance and Conditions by the ZA, as Mandated by the City's 2001 Settlement Agreement:** Amend Condition 78 of the 2000 ZA determination to include the terms of the Settlement Agreement that require recurring Five Year Reviews of Conditions.

- **Require Emergency, Accident, and Spill Reporting to the City:** The applicant shall immediately notify appropriate City agencies and entities, including the Los Angeles Fire Department, the Petroleum Administrator, and the local City Council office, of an emergency, accident or spill that requires reporting to any State, County, or regional agency.

We have requested repeatedly that this case retroactively review the 25 projects executed since 2000 without application to or approval from the ZA. These projects include the microturbine installation on the Controlled Drill Site, in contravention of Condition 1 of ZA-1965-17683 which approved the establishment of the Controlled Drill Site, and the other 24 projects were all well operations.

The unapproved well operations included drilling 2 new wells, the re-drilling of 12 existing wells, and the conversion of 10 wells between injector and producer (or vice versa). None were submitted to the ZA. All require review and approval by the ZA by terms of LAMC 13.01.H and 13.01.I, central code provisions that were last altered in October and July 2000, respectively. The entire case archive in City Records for ZA-17683 has been searched, and no applications or other documents for these projects were ever submitted to the ZA.

All 25 of these projects required environmental clearance under CEQA at the time they were planned and executed. They require environmental clearance under CEQA today, which means that clearance must be processed under today's CEQA procedures.

In 2016, Chief Zoning Administrator Linn Wyatt issued ZA Memo 133, setting new guidelines for how Planning will implement CEQA in oil cases. These new guidelines were promulgated as the result of a lawsuit over the City's pattern and practice of giving out improper Categorical Exemptions from Environmental Review under CEQA to oil well projects in the City.

ZA Memo 133 forbids the issuance of Categorical Exemptions for exactly the kinds of well projects that were executed at the West Pico Drill Site: the drilling of new wells, the re-drilling of existing wells, and the conversion of wells. It requires at least an Initial Study, and in this case would require an MND or an EIR because all approvals for well projects come with mitigation measures.

The review of the microturbines would also require at least an MND because approving the microturbines would require changing an existing mitigation measure (the prohibition on electric generation in Condition 1 of the 1965 "mother case") and it should only be done with a sound study to assess the need for noise mitigation and a careful analysis of emissions.

If reviewed properly, including a proper CEQA review and in view of the readiness of PCEC to agree to reasonable and sensible mitigation measures (i.e. annual inspections, emissions monitoring), we would not object to retroactive approvals of those projects with proper new mitigation measures attached.

Part 2:
A Summary of Major Episodes of Non-Compliance by the Operator, Which Cannot be Exhaustive Because No Comprehensive Compliance Inspection has Been Conducted by the City.

There is a remarkable record of non-compliance at the West Pico Drill Site since 2000. A few general comments are necessary at the outset before itemizing the specifics.

Except for odor problems, our ability to discern non-compliance is largely based on our own review of public record documents from DOGGR/CalGEM (the State agency that regulate down-hole well activities), SCAQMD, LADBS, LAFD, and the ZA case record for the site in City back to its origins, which is stored in the City Records office.

After documenting substantial non-compliance, we long ago called for a comprehensive compliance inspection by the City, through the office of the Petroleum Administrator. This request was refused or ignored. When former Petroleum Administrator Uduak Ntuk did a full on-site comprehensive compliance inspection of the Rancho Park Drill Site in 2017, he spotted more than double the number of instances of non-compliance than I had previously documented from public records (which is what initiated that case). Sometimes things are done and visible on site that do not have a document trail.

This is a Review of Compliance without a compliance inspection, though there was a site visit when the applicant invited Planning, the LAFD, and the Petroleum Administrator to visit.

There was a so-called “desk inspection” of the site by the Petroleum Administrator in fall 2019, but that was not the interim inspection ordered by Council in CF 18-0203 passed on September 7, 2018, and the “desk inspection” flagged zero of the compliance violations we have identified. It missed the 2001 Settlement Agreement, did not examine DOGGR/CalGEM well records, and said nothing about LAFD Notices of Violation. In other words, the “desk inspection” was an empty and ineffective gesture.

This is also a review with an incomplete file that does not speak to several key Conditions in force at the site, especially Conditions related to odor prevention and odor monitoring.

And this a review that is, so far, being exempted from environmental review under CEQA. CEQA has procedural and substantive requirements, many of which are designed to inform the public about environmental impacts and the efficacy of mitigation measures so that the public can participate meaningfully in legislative and administrative decision making processes. We are being deprived of this critical source of information by Planning’s erroneous decision to bring the case to hearing with a Categorical Exemption.

We also must emphasize a few points about the site operators. Ownership and management of the operations have changed hands several times. The founder, Occidental, sold the operation to Breitburn in approximately 1993. Breitburn spun off the site and other properties as Pacific Coast Energy Company (PCEC) in approximately 2011 or 2012. New ownership acquired full title to PCEC in September 2019.

We are now, since early June, in open and regular communication with the representatives and management of PCEC, under its new ownership. They have been responsive and honest, acknowledging major compliance issues not just in communication to us, but in writing to the ZA. Beyond acknowledging the problems, PCEC's letter sent to the ZA today shows they are stepping up to resolve the problems. They have shown nothing but good faith in seeking proper resolution to these issues.

Nevertheless, the record of non-compliance needs to be documented, because it is central not only to this case, but also critical to understanding the incredible extent of the City's failure to implement and enforce its own code, its own ZA assigned conditions, and its duties under CEQA. That monumental failure to live up to promises and legal commitments to protect and serve the public will be the subject of Part 3.

That said, here is an incomplete list of major instances of non-compliance that is documented in the public record. Documents and links to documents proving these instances of non-compliance are in the case file, and most of this documentation has been delivered by us in the absence of a serious effort by the City to examine the site.

- **Failure to hold required Five Year Reviews.** Five Year Reviews were not held in 2010-11 and 2015-16, as required by the 2001 Settlement Agreement, and have never been held until now.
- **Installation of microturbines without ZA reviews when expressly prohibited by ZA-assigned conditions.** Five 200 Kilowatt microturbine electric generators (1 Megawatt total) were installed in 2018-19 with no application to or approval from the ZA, despite the express prohibition of electric generation on site or anywhere in the larger Oil Drilling District that is mandated in ZA Condition 49 of the 2000 determination in ZA-1989-17683-PAD and in ZA Condition 1 (applying LAMC 13.01.F.43) in the 1965 "mother case" ZA-1965-17683. Condition 1 of the 1965 "mother case" still applies to the half of the Controlled Drill Site that houses the microturbines.
- **Drilling of two new wells without ZA approvals required by LAMC 13.01.** Two new oil wells, West Pico Well #58 (API # 03726615) and Well #59 (API # 03727133), were drilled in 2005-06 and 2010, respectively, without application to or approval from the ZA, despite the express requirements of LAMC 13.01.H and 13.01.I for such approval.
    - CalGEM permit applications, permits, and work history records prove the wells were drilled. Documents have been submitted and are in the case file.
    - The last new well reviewed by a ZA was approved by in 1979, with a tight expiration date to utilize the approval or have it expire.
    - No more than 60 wells have ever existed on the site. No more than 58 wells have been approved by the ZA. A well cellar with larger capacity was approved in 1969 in ZA-17683, but a well cellar is not a well, and wells require specific

approval as per LAMC 13.01. From 1969 through 1979, the site operator returned to the ZA each time it wanted approvals for new wells.
    - The 2000 determination expressly did not approve any new wells.
    - There were no ZA approvals for the wells drilled in 2005-06 and 2010.
    - The ZA who wrote the March 2006 determination on the two-year checkup Review did not know a new well was drilled while the Review case was on his desk because there was no application for it and no site inspection by a qualified professional.
- **Re-drilling of 12 existing wells without ZA reviews or approvals required by LAMC 13.01.** 12 existing wells were re-drilled between 2000 and 2020. PCEC and I have both submitted identical lists of these wells to the ZA. No applications were submitted to the ZA. The documentation is available on CalGEM's "Well Search" and "Well Finder" systems, and is indisputable.
- **Conversion of 10 wells between injector-producer (or vice versa) without ZA reviews or approvals required by LAMC 13.01.** All between 2000 and 2020. No applications, no reviews. PCEC and I have each submitted identical lists of these wells to the ZA. The documentation is available on CalGEM's "Well Search" and "Well Finder" systems, and is indisputable.
- **All projects undertaken without ZA review also, per force, violated CEQA since Planning is the lead agency for CEQA reviews of projects at the drill site.** Each of these projects required environmental clearance under CEQA, but the operator skirted CEQA review by not applying to the ZA for approval, and the operator wrongly told DOGGR (old name of CalGEM) that the local lead agency did not require any CEQA documents or clearance for the well operations in question. In fact, every well operation at other drill sites in the City that was reviewed by the ZA from 2000 to the present has been processed by Planning for environmental clearance under CEQA (even if given inappropriate exemptions, CEQA documentation was required).
- **Repeated LAFD Notices of Violation for leaving spilled or leaked Petroleum on surfaces, which also violated of Conditions 46 ("Avoidance of Nuisance"), 47 ("Waste Disposal"), 57 ("Odor Control"), and 61 ("Leak Detection and Odor Control") of the 2000 determination in ZA-1989-17683-PAD and Condition 1 (applying LAMC 13.01.F.18 and F.37) of the 1965 "mother case" ZA-1965-17683.** In September 2017 and October 2018, the LAFD issued Notices of "Fire/Life Safety Violation" at the West Pico Drill Site for the violation of "L.A.M.C. 57.5706.3.2.2 Discharge and Combustible Materials on Ground."
    - In 2017, the citation specified "You are hereby ordered to remove any waste petroleum, petroleum refuse or waste matter from the surface of the ground, and walls of the cellars."
    - In 2018, the citation specified "You are hereby ordered to remove any waste petroleum, petroleum refuse or waste matter from the surface of the ground, around or near any oil well, derrick, pump, cellar, tank, oil pump, or combustible structure." These specifications are not quotations of the code, so they would seem to be possible descriptions of places where LAFD found spilled or leaked petroleum.
    - We have previously sent copies of LAFD Notices of Violation to the ZA and they are in the case file.

- **Odor Problems as reported in first person testimony of Council Member Paul Koretz in City Council Committee on October 15, 2019.** Numerous neighbors have complained of petroleum odors around the drill site over the past several years, but Council Member Paul Koretz's personal testimony presented at the City Council's Energy, Climate Change and Environmental Justice Committee's meeting of October 15, 2019 stands out as recorded testimony by an Officer of the City. ***Mr. Koretz said, "You can smell the oil. You can taste the oil."***
    - Transcript of the committee meeting: https://lacity.granicus.com/TranscriptViewer.php?view_id=46&clip_id=19441
    - Audio recording of the committee meeting, with Mr. Koretz's testimony at the 2 hour 23 minute mark: https://lacity.granicus.com/MediaPlayer.php?view_id=46&clip_id=19441).
- **Spilled or leaked petroleum that is not cleaned up could cause odor problems, so the LAFD documented evidence of petroleum leaks or spills that were not cleaned up further substantiates the personal testimony of Council Member Paul Koretz and complaints from neighbors of the drill site.**
- **The Planning Department Case File on the drill site documents decades of complaints about odors from the drill site, from the 1960s to the present, which have been repeatedly noted and several times affirmed by Reviewing ZAs.** There is a long history of non-compliance and nuisance that has never been satisfactorily addressed.
- **The case file includes a Notice of Violation from SCAQMD, from February 2020, for a gas leak at well-head #43 at a concentration of greater than 50,000 parts per million, which exceeds SCAQMD regulations.**
- **The case file includes additional Notices of Violation from the LAFD, and an older Notice from SCAQMD**

To reiterate, PCEC has acknowledged the most major violations and supplied documentation on some of the lesser items, too. PCEC has come forward asking to resolve all of these matters, including the 24 well projects and the microturbines, and to do so with a proper environmental review. And PCEC has stepped forward to request the same top new conditions that the community requests.

Part 3:
A Statement Objecting to Non-Compliance by the City, Including and Encompassing but Not Limited to Violations of Procedure and Failures to Perform Administrative Duties, both in the Proceedings and Case File of this Review and During the Past 20 Years.

The City's failures in relation to this Controlled Drill Site and this review are legion.

Time may not permit a full list of all the problems. What follows speaks to a larger set of problems concerning the City's failure to live up to its own City Code, its obligations under CEQA, its conditions assigned in ZA approvals, and decades of promises by Mayors, City Attorneys, Council Members, and Zoning Administrators that there would be "strict controls" and "strict compliance" at the oil drill sites that those Officers of the City have authorized to operate in the City.

- The ZA never issued an addendum to the EIR that was the subject of the court ruling and settlement agreement in 2001, as required by State law since 1989.
- The ZA never updated the Mitigation Monitoring & Reporting Plan (MMRP) attached to that EIR after the settlement agreement, as required by State law since 1989.
- The ZA never issued an addendum or correction or any additional or new letter to amend the 2000 determination in ZA-1989-17683-PAD after the Settlement Agreement changed several of the conditions and added several new mitigation and enforcement measures.
- Perhaps partly as a result of this, the 5 Year Reviews required by the 2001 Settlement Agreement were never held, when they should have been held in 2010-11 and 2015-16.
- The ZA in 2000 made a long series of errors, too long to catalog here, including misunderstanding the difference between a well and a well cellar, failing to understand that "the Controlled Drill Site" approved by the 1965 "mother case" is an integrated whole that cannot be split apart without undermining its legal standing to operate, and then after treating the drill site as two different properties and declaring that the 2000 decision applied only to the half with well heads the ZA then wrote a series of conditions that necessarily apply to both halves.
    - The time limit to appeal is long past, but the errors continue to trip up the ZA today.
- The ZA in the two-year post-project check-up review held in 2005-06 on the modernization project that was finally approved after the 2001 Settlement at least recognized the difference between a well and a well cellar with an open slot for a well. But that ZA did not know that a new well was being drilled, without approval, at te very time that 2005-06 was on their desk.
- The City has never required or performed regular inspections for general compliance with City Code and ZA assigned conditions, not at this drill site or at any drill site in the City. LAFD inspections for fire code compliance, only, are the only regular City inspections that are required by City law.
- As result of the failure to do inspections, non-compliance at drill sites in the City is epidemic, if not fully universal. The West Pico case seems to be the worst.
- The failure to do inspections, the failure to do enforcement, and the City's lack of an expert with training and experience in or around the industry (except for the 2016-2019 tenure of Uduak Ntuk as Petroleum Administrator after that office was revived following twenty years of being totally forgotten) invites rampant non-compliance.
- When the officers of NASE reminded the City in early November 2019 that their 2001 Settlement Agreement mandated recurring 5 Year Reviews that had never happened, they also called on the City to perform a Comprehensive Compliance Inspection to inform a ZA review. They were joined by the local Neighborhood Council, Rabbi Bookstein, and local community members and other local Rabbis.
- We argued that without such an inspection, the ZA would have no independent source of information on compliance, and no staff on hand in Planning with knowledge of drill sites and oil well records who could identify compliance problems particular to the industry (i.e., recognize equipment on a drill site, know how to review CalGEM records, etc).
- We also argued that an inspection was needed in order to assess the level of environmental review required by CEQA, which requires a "hard look" at the project

under review. In this case, the project would be defined by the scope of compliance issues, and that in turn would shape the evaluation of present and future mitigation measures.

- Our request for an inspection was refused and/or ignored.
- The case file is manifestly incomplete, and incomplete in ways that reflect a poor and inaccurate reading of the ZA approvals and ZA-assigned conditions that are in force at the site.
- For example, on May 15, 2020, ZA staff informed PCEC that the case was on hold and required PCEC to submit quarterly noise reports as per Condition 39 of the 2000 approval. But Planning staff did not catch that Condition 39's reporting requirement had a two year time span and expired in 2005, and compliance was reviewed in 2005-06 in ZA-1989-17683-PA1.
- For another example, the May 15, 2020 asked for delivery of the risk assessment report required by the Settlement Agreement. Planning staff seem to have missed that this report was required to be delivered in 2005, and that it was delivered in 2006, and was reviewed in the 2005-06 PA1 review.
- It seems that Planning staff did not call the full case file from City Records, for if they had done so they'd have seen the risk assessment study, the determination in the 2005-06 PA1 case, and they'd also perhaps have attended to the import of approvals starting with the 1965 "mother case." The pdf copies of the current case file that I received on June 29 do not include any of those earlier cases that define the size and footprint of the Controlled Drill Site and contain the approvals for wells.
- ***Meanwhile, the ZA staff's May 15, 2020 letter to PCEC that asked for documents on compliance with multiple expired conditions that were reviewed in 2005-06 DID NOT ask for records pertinent to Condition 61 on Leak Detection and Odor Control, which is still in force. Condition 61 requires a record of a daily walk of the drill site to check for odors. PCEC submitted just one such record, dated December 31, 2019, the last business day before its application was originally due. Planning staff did not ask for any additional records, despite the known fact that odor complaints were part of the genesis of this review.***
- ***Misunderstanding that other conditions had already expired is one thing, but the negligence of not calling for documents on Condition 61 speaks to severe inattention to this case.***
- The case file contains no documents at all about the Categorical Exemption that Planning has proposed.
- The hearing Notice lists a CEQA case number and document number, ENV-2020-1328-CE, which Planning staff have told me in writing does not exist and pertains to no document.
- The hearing Notice says the CE is a Class 9 (inspections only) and a Class 21 (enforcement: i.e. revocation or referral for prosecution) exemption. But this Review is neither of those things. Revocation would take place under LAMC 12.27.1. There is no inspection, and it is not inspection only by the terms of the same Notice that lists the CE as Class 9.
- The hearing Notice says the ZA may impose "corrective conditions." That means modifying mitigations, and that is at the core of environmental review under CEQA.

- ***Condition 78 of the 2000 determination is invoked by the Settlement Agreement for the procedure to use in the 5 Year Reviews. Condition 78 says the ZA will review the "effectiveness" of conditions, "evaluate the neighborhood impacts," and evaluate the "efficacy of mitigation measures." None of that can be done in compliance with CEQA under a Categorical Exemption because it is all about studying and potentially modifying conditions, which is at the essence of what CEQA is all about.***
- ***Add in the facts of non-compliance and the inadequacy of conditions that have been manifest since the Chief ZA ordered this review on November 19, 2019, and this is astounding. Remember that the starting points were: odor complaints, proof that mandatory 5 Year Reviews had never been held, and the microturbine installation contrary to conditions forbidding electric generation anywhere on the Controlled Drill Site or in the Oil Drilling District.***
- ***But it became worse after that when, starting in March, the ZA's office was first informed of wells that had been drilled without application or ZA review or CEQA clearance. That should have triggered the action prescribed by ZA Memo 133, which the City had just successfully defended in the California Court of Appeals in 2019!***
- ***We are sadly back to the City's old pattern and practice of handing out improper Categorical Exemptions in oil cases, which people thought had been fixed by the City's settlement of a lawsuit about it in 2016.***

There is considerably more that is not right about procedure and substance of the City's handling of this case. But it is approaching 4PM the day before the public hearing, and this letter must be submitted.

PCEC has come forward along with the community to present a solution to problems.

We need to see if the City can do its part, despite a record running up to the present that does not inspire confidence in the City. Isn't time to turn that ship around? It would be to everyone's benefit, even the City's.

Yours

Michael Salman

Dylan Sittig <dylan.sittig@lacity.org>

West Pico Drill Site (ZA-1989-17683-PA2) - Comment by Local Resident in Favor of Annual Compliance Inspection and 24/7 Emissions Monitoring

Cherie Lewis <cherie0206@hotmail.com> Wed, Jul 8, 2020 at 9:51 AM
To: "dylan.sittig@lacity.org" <dylan.sittig@lacity.org>
Cc: "estineh.mailian@lacity.org" <estineh.mailian@lacity.org>, "vince.bertoni@lacity.org" <vince.bertoni@lacity.org>, "lisa.webber@lacity.org" <lisa.webber@lacity.org>, "councilmember.koretz@lacity.org" <councilmember.koretz@lacity.org>, "andy.shrader@lacity.org" <andy.shrader@lacity.org>, "joan.pelico@lacity.org" <joan.pelico@lacity.org>, Rabbi Yonah Bookstein <rabbiyonah@gmail.com>, Cherie Lewis <cherie0206@hotmail.com>

Dear Associate Zoning Administrator Irving,

This le er involves the West Pico Drill Site (ZA-1989-17683-PA2) (hereina. er "the Drill Site").

As a local resident, I am very concerned about the impact on the neighborhood caused by the strong odors & foul air which connuously emana te from the Drill Site.

Thousands of residents & visitors are affected by this situaon on a daily basis. The loc al neighborhood is density populated and includes mulple public & priv ate schools, thousands of houses & apartment buildings, mulple Elder care Facilies, mulple houses of w orship, & hundreds of small & large businesses.

Yet, despite the fact that many people, over a period of many years, have requested environmental review under the CEQA, lile r eview or oversight of the Drill Site has been conducted. The situaon has w orsened over me, and mos t recently, it has been learned that the Drill Site has 25 unapproved projects on its premises. This serious situaon is unaccep table.

To protect public health & safety, this situaon should be r emedied as soon as possible. We urge you to require an annual compliance inspecon & c onnuous 24/7 emissions monit oring of the Drill Site.

As a resident of Los Angeles for many decades, I feel betrayed by the local government, which has declined over me t o take acon on this en vironmental danger. As a person with medical issues, I feel vulnerable when I shop at stores near the Drill Site, which is located right in the middle of a business district.

Since any assessment of any situaon begins with a r eview of the facts, an inspecon of the Drill Sit e is needed to ascertain the facts of the situaon. Without an inspecon, the f acts are unknown. Facts are necessary before any decision is made regarding the Drill Site. Please postpone any decision on the Drill Site unl a thor ough inspecon is c onducted by imparal pr ofessionals. Thank you.

Sincerely,

Cherie Lewis, Esq.
1201 Roxbury Drive, Unit 106
Los Angeles, California 90035
(310) 801-5516

****

Dylan Sittig <dylan.sittig@lacity.org>

West Pico Drill Site (ZA-1989-17683-PA2)

Eitan Melamed <melamedmelamed@gmail.com> Wed, Jul 8, 2020 at 6:06 AM
To: dylan.sittig@lacity.org
Cc: Yonah Bookstein <rabbiyonah@gmail.com>, estineh.mailian@lacity.org, vince.bertoni@lacity.org, lisa.webber@lacity.org, councilmember.koretz@lacity.org, andy.shrader@lacity.org, joan.pelico@lacity.org

Dear Associate Zoning Administrator Irving,

I am writing to regarding West Pico Drill Site (ZA-1989-17683-PA2).

I'm a resident of the neighborhood directly impacted by the West Pico Drill Site. I'm very concerned about compliance issues and odors from the drill site which is located next to multiple schools, houses of worship, and our homes.

I urge you to require an annual compliance inspection and 24/7 emissions monitoring of the site to protect public health and safety.

I am also VERY concerned about the lack of environmental review under CEQA. We now know that there are 25 unapproved projects at the site, in addition to previous safety violations.

[insert your own testimony or experience and feelings here]

It's morally wrong that our billboards have more oversight than oil wells in our densely populated neighborhood!

Sincerely,

Eitan MELAMED

Eitan Melamed
melamedmelamed@gmail.com

Connect Create Collaborate

Dylan Sittig <dylan.sittig@lacity.org>

THERE MUST BE A COMPLIANCE INSPECTION!!!!!! DO NOT JEOPARDIZE THE HEALTH OF THE COMMUNITY

Tova Abady <dreamseekgal@gmail.com> Wed, Jul 8, 2020 at 12:52 AM
To: dylan.sittig@lacity.org
Cc: estineh.mailian@lacity.org, vince.bertoni@lacity.org, lisa.webber@lacity.org, councilmember.koretz@lacity.org, andy.shrader@lacity.org, joan.pelico@lacity.org, rabbiyonah@gmail.com

SUBJECT: West Pico Drill Site (ZA-1989-17683-PA2)

Dear Associate Zoning Administrator Irving,

I am writing to regarding West Pico Drill Site (ZA-1989-17683-PA2).

I'm a frequent visitor to the neighborhood directly impacted by the West Pico Drill Site. I attend synagogue services there. I'm extremely concerned about compliance issues and odors from the drill site which is located next to multiple schools, houses of worship, and our homes. This is clearly a health hazard as has been proven in other cities that had similar drilling sites.

I urge you to require an annual compliance inspection and 24/7 emissions monitoring of the site to protect public health and safety.

I am also VERY concerned about the lack of environmental review under CEQA. We now know that there are 25 unapproved projects at the site.

I was not able to pray in synagogue because I was overwhelmed by the smell that made me ill.

It's morally wrong that our billboards have more oversight than oil wells in our densely populated neighborhood!

Sincerely,

Tova Abady

Sent from my iPhone

Dylan Sittig <dylan.sittig@lacity.org>

West Pico Drill Site (ZA-1989-17683-PA2)

Amy Ritz <amyritz65@gmail.com> Tue, Jul 7, 2020 at 9:39 PM
To: dylan.sittig@lacity.org
Cc: estineh.mailian@lacity.org, vince.bertoni@lacity.org, lisa.webber@lacity.org, councilmember.koretz@lacity.org, andy.shrader@lacity.org, joan.pelico@lacity.org, rabbiyonah@gmail.com

Dear Associate Zoning Administrator Irving,

I am writing regarding West Pico Drill Site (ZA-1989-17683-PA2).

I'm a resident of the neighborhood directly impacted by the West Pico Drill Site. I'm very concerned about compliance issues and odors from the drill site which is located next to multiple schools, houses of worship, and our homes.

I urge you to require an annual compliance inspection and 24/7 emissions monitoring of the site to protect public health and safety.

I am also VERY concerned about the lack of environmental review under CEQA. We now know that there are 25 unapproved projects at the site, in addition to previous safety violations.

It's morally wrong that our billboards have more oversight than oil wells in our densely populated neighborhood!

Sincerely,

Amy Ritz

Dylan Sittig <dylan.sittig@lacity.org>

West Pico Drill Site (ZA-1989-17683-PA2)

Douglas Schiller <dougschiller@gmail.com> Tue, Jul 7, 2020 at 9:34 PM
To: dylan.sittig@lacity.org
Cc: estineh.mailian@lacity.org, vince.bertoni@lacity.org, lisa.webber@lacity.org, councilmember.koretz@lacity.org, andy.shrader@lacity.org, joan.pelico@lacity.org, Rabbi Yonah Bookstein <rabbiyonah@gmail.com>

Dear Associate Zoning Administrator Irving,

I am writing regarding West Pico Drill Site (ZA-1989-17683-PA2).

I'm a resident of the neighborhood directly impacted by the West Pico Drill Site. **I'm VERY concerned** about compliance issues and odors from the drill site which is located next to multiple schools, houses of worship, and our homes.

I **urge** you to require an annual compliance inspection and 24/7 emissions monitoring of the site to protect public health and safety.

I am also VERY concerned about the lack of environmental review under CEQA. We now know that there are 25 unapproved projects at the site, in addition to previous safety violations.

There are unpleasant odors. And there are MANY kids who go to school nearby. This is not right.

It's morally wrong that our billboards have more oversight than oil wells in our densely populated neighborhood!

Best regards,

Doug Schiller
dougschi (*skype*)
(646) 403-4099 (*o*)
(310) 493.9996 (*m, whatsapp*)

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Dylan Sittig <dylan.sittig@lacity.org>

SUBJECT: West Pico Drill Site (ZA-1989-17683-PA2)

Anat Sadan <asadanla@gmail.com> Tue, Jul 7, 2020 at 9:03 PM
To: dylan.sittig@lacity.org
Cc: estineh.mailian@lacity.org, vince.bertoni@lacity.org, lisa.webber@lacity.org, councilmember.koretz@lacity.org, andy.shrader@lacity.org, joan.pelico@lacity.org

Dear Associate Zoning Administrator Irving,

I am writing to you in regards to West Pico Drill Site (ZA-1989-17683-PA2).

I'm a resident of the neighborhood directly impacted by the West Pico Drill Site. I'm very concerned about compliance issues and odors from the drill site which is located next to multiple schools, houses of worship, and our homes.

I urge you to require an annual compliance inspection and 24/7 emissions monitoring of the site to protect public health and safety.

I am also VERY concerned about the lack of environmental review under CEQA. We now know that there are 25 unapproved projects at the site, in addition to previous safety violations.

This is unacceptable and I urge you to act and work for the Safety of my family and other people in the area.

It's morally wrong that our billboards have more oversight than oil wells in our densely populated neighborhood!

Sincerely,

Anat Sadan

454 S. Almont dr.

Beverly Hills 90211

Sent from my iPad

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Dylan Sittig <dylan.sittig@lacity.org>

West Pico Drill Site (ZA-1989-17683-PA2)

Steve Fried <stevefried@gmail.com> Tue, Jul 7, 2020 at 8:49 PM
To: dylan.sittig@lacity.org
Cc: estineh.mailian@lacity.org, vince.bertoni@lacity.org, lisa.webber@lacity.org, councilmember.koretz@lacity.org, andy.shrader@lacity.org, joan.pelico@lacity.org, rabbiyonah@gmail.com, Fried Steve <stevefried@gmail.com>

Dear Associate Zoning Administrator Irving,

I am writing to regarding West Pico Drill Site (ZA-1989-17683-PA2).

My family and I live on S. Wetherly Dr and my children attend Hillel Hebrew Academy on Olympic and Doheny. I'm very concerned about the drill site including compliance issues and odors from the drill site which is located next to multiple schools, houses of worship, and our homes.

I urge you to require an annual compliance inspection and 24/7 emissions monitoring of the site to protect public health and safety.

I am also VERY concerned about the lack of environmental review under CEQA. We now know that there are 25 unapproved projects at the site, in addition to previous safety violations.

Our neighborhood and community our relying on you to do the right thing and protect the health of our families. Our request is reasonable and fair and I hope you make the decision to ensure that the drill site is in compliance and not a danger to the neighborhood.

Sincerely,

Steve Fried

Dylan Sittig <dylan.sittig@lacity.org>

West Pico Drill Site (ZA-1989-17683-PA2)

Brooke Alyeshmerni <brookealyeshmerni@gmail.com> Tue, Jul 7, 2020 at 8:37 PM
To: "dylan.sittig@lacity.org" <dylan.sittig@lacity.org>
Cc: "andy.shrader@lacity.org" <andy.shrader@lacity.org>, "councilmember.koretz@lacity.org" <councilmember.koretz@lacity.org>, "estineh.mailian@lacity.org" <estineh.mailian@lacity.org>, "joan.pelico@lacity.org" <joan.pelico@lacity.org>, "lisa.webber@lacity.org" <lisa.webber@lacity.org>, "rabbiyonah@gmail.com" <rabbiyonah@gmail.com>, "vince.bertoni@lacity.org" <vince.bertoni@lacity.org>

Dear Associate Zoning Administrator Irving,

I am writing to regarding West Pico Drill Site (ZA-1989-17683-PA2).

I'm a resident of the neighborhood directly impacted by the West Pico Drill Site. I'm very concerned about compliance issues and odors from the drill site which is located next to multiple schools, houses of worship, and our homes.

I urge you to require an annual compliance inspection and 24/7 emissions monitoring of the site to protect public health and safety.

I am also VERY concerned about the lack of environmental review under CEQA. We now know that there are 25 unapproved projects at the site, in addition to previous safety violations.

My husband remembers as a child protesting this site due to the horrible health ramifications it was having on the neighborhood. I am sad to see that nothing was ever done, and that money seems to be the driving force over the health of your constituents, as well as the danger to the environment.

It's morally wrong that our billboards have more oversight than oil wells in our densely populated neighborhood!

Sincerely,

Brooke Korda

Connect Create Collaborate

Dylan Sittig <dylan.sittig@lacity.org>

West Pico Drill Site (ZA-1989-17683-PA2)

Ben Yeroushalmi <ben@yeroushalmilaw.com> Tue, Jul 7, 2020 at 5:48 PM
To: "dylan.sittig@lacity.org" <dylan.sittig@lacity.org>
Cc: "estineh.mailian@lacity.org" <estineh.mailian@lacity.org>, Joan Pelico <joan.pelico@lacity.org>, Andy Shrader <andy.shrader@lacity.org>, "councilmember.koretz@lacity.org" <councilmember.koretz@lacity.org>, "lisa.webber@lacity.org" <lisa.webber@lacity.org>, "vince.bertoni@lacity.org" <vince.bertoni@lacity.org>

Dear Associate Zoning Administrator Irving,

I am writing to you regarding West Pico Drill Site (ZA-1989-17683-PA2).

I'm a resident of the neighborhood directly impacted by the West Pico Drill Site. I'm very concerned about compliance issues and odors from the drill site which is located next to multiple schools, houses of worship, and our homes.

I urge you to require an annual compliance inspection and 24/7 emissions monitoring of the site to protect public health and safety.

I am also VERY concerned about the lack of environmental review under CEQA. We now know that there are 25 unapproved projects at the site, in addition to previous safety violations.

It's morally wrong that our billboards have more oversight than oil wells in our densely populated neighborhood!

Sincerely,

Ben Yeroushalmi

Ben Yeroushalmi
Law Offices of Ben Yeroushalmi
9100 Wilshire Blvd., Suite 240W
Beverly Hills, CA 90212
Tel: 310-623-1926
Fax: 310-623-1930
WWW.YEROUSHALMILAW.COM

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Dylan Sittig <dylan.sittig@lacity.org>

Drilling in the middle of residential Pico/Doheny

Sam Glaser <samglaser@aol.com> Tue, Jul 7, 2020 at 5:46 PM
To: dylan.sittig@lacity.org
Cc: estineh.mailian@lacity.org, vince.bertoni@lacity.org, lisa.webber@lacity.org, councilmember.koretz@lacity.org, andy.shrader@lacity.org, joan.pelico@lacity.org

SUBJECT: West Pico Drill Site (ZA-1989-17683-PA2)

Dear Associate Zoning Administrator Irving,

I am writing to regarding West Pico Drill Site (ZA-1989-17683-PA2).

I'm a resident of the neighborhood directly impacted by the West Pico Drill Site. I'm very concerned about compliance issues and odors from the drill site which is located next to multiple schools, houses of worship, and our homes.

I urge you to require an annual compliance inspection and 24/7 emissions monitoring of the site to protect public health and safety.

I am also VERY concerned about the lack of environmental review under CEQA. We now know that there are 25 unapproved projects at the site, in addition to previous safety violations.

It's morally wrong that our billboards have more oversight than oil wells in our densely populated neighborhood!

Sincerely,

Sam

Sam Glaser
Glaser Musicworks

www.samglaser.com
samglaser@aol.com
310-204-6111
800-9-SAMMYG (972-6694)
1941 Livonia Ave.
LA, CA 90034

Dylan Sittig <dylan.sittig@lacity.org>

West Pico Drill Site (ZA-1989-17683-PA2)

1 message

Sophie Milrom <sophie.milrom@gmail.com> Tue, Jul 7, 2020 at 5:43 PM
To: dylan.sittig@lacity.org
Cc: estineh.mailian@lacity.org, vince.bertoni@lacity.org, lisa.webber@lacity.org, councilmember.koretz@lacity.org, andy.shrader@lacity.org, joan.pelico@lacity.org

Dear Associate Zoning Administrator Irving,

I am writing to regarding West Pico Drill Site (ZA-1989-17683-PA2).

I'm a resident of the neighborhood directly impacted by the West Pico Drill Site. I'm very concerned about compliance issues and odors from the drill site which is located next to multiple schools, houses of worship, and our homes.

I urge you to require an annual compliance inspection and 24/7 emissions monitoring of the site to protect public health and safety.

I am also VERY concerned about the lack of environmental review under CEQA. We now know that there are 25 unapproved projects at the site, in addition to previous safety violations.

I am a mother of two young children and it pains me to think that the people who should be protecting them (YOU!) are making reckless and negligent decisions that may harm them.

It's morally wrong that our billboards have more oversight than oil wells in our densely populated neighborhood!

Sincerely,

Sophie Melamed

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Dylan Sittig <dylan.sittig@lacity.org>

West Pico Drill Site (ZA-1989-17683-PA2)

Miriam Duman Goldberg <miriam.duman.goldberg@gmail.com> Tue, Jul 7, 2020 at 5:18 PM
To: dylan.sittig@lacity.org, estineh.mailian@lacity.org, vince.bertoni@lacity.org, lisa.webber@lacity.org, councilmember.koretz@lacity.org, andy.shrader@lacity.org, joan.pelico@lacity.org

Dear fellow Angelenos,
I am writing regarding the West Pico Drill Site (ZA-1989-17683-PA2).

I'm a resident of the neighborhood directly impacted by that site. I'm very concerned about compliance issues and odors from the drill site, which is located close to and, in some cases, directly next to multiple schools, houses of worship, and our homes.

I urge you to require an annual compliance inspection and 24/7 emissions monitoring of the site to protect public health and safety.

I am also *very* concerned about the lack of environmental review under CEQA. We now know that there are 25 unapproved projects at the site, in addition to previous safety violations. It's morally wrong that our billboards have more oversight than oil wells in our densely populated neighborhood!

Sincerely,

Miriam Duman Goldberg

Resident of the Pico-Robertson neighborhood

When replying, please include my message in your reply.
Thank you.

Dylan Sittig <dylan.sittig@lacity.org>

West Pico Drill Site (ZA-1989-17683-PA2

Charlie Carnow <carnow@gmail.com> Tue, Jul 7, 2020 at 5:17 PM
To: dylan.sittig@lacity.org
Cc: estineh.mailian@lacity.org, vince.bertoni@lacity.org, lisa.webber@lacity.org, councilmember.koretz@lacity.org, andy.shrader@lacity.org, joan.pelico@lacity.org

Dear Associate Zoning Administrator Irving,

I am writing regarding West Pico Drill Site (ZA-1989-17683-PA2).

I'm a resident of the neighborhood directly impacted by the West Pico Drill Site. I'm very concerned about compliance issues and odors from the drill site which is located next to multiple schools, houses of worship, and our homes.

I urge you to require an annual compliance inspection and 24/7 emissions monitoring of the site to protect public health and safety as had been done for other projects (including the Rancho Park drilling site if I recall)

I am also VERY concerned about the lack of environmental review under CEQA. We now know that there are 25 unapproved projects at the site, in addition to previous safety violations. The place stinks, and the company in question simply is not performing their duties under the agreement.

It's morally wrong that our billboards have more oversight than oil wells in our densely populated neighborhood!

Sincerely,

Charlie Carnow
8821 Alcott #7
Los Angeles, CA 90035

Connect Create Collaborate

Dylan Sittig <dylan.sittig@lacity.org>

Questions about hearing, case, case file re West Pico Drill Site (ZA-1989-17683-PA2)

Michael Salman <salman@history.ucla.edu> Tue, Jul 7, 2020 at 12:20 PM
To: Dylan Sittig <dylan.sittig@lacity.org>
Cc: Estineh Mailian <estineh.mailian@lacity.org>, Lisa Webber <lisa.webber@lacity.org>, Edber Macedo <edber.macedo@lacity.org>, Rae Drazin <rae@md-advocate.net>, Richard Weiner <rswatty@ca.rr.com>, Rabbi Yonah Bookstein <rabbiyonah@gmail.com>, "mfinch@energyprojectllc.com" <mfinch@energyprojectllc.com>

Dear Dylan

I'd like to follow up on the issue of speaking me a t the hearing, and leave other ma. ers aside for the moment.

I am adding Mike Finch, PCEC's representav e, to the cc list of this reply.

In the Murphy Drill Site case handled by Associate ZA Charlie Rausch (ZA-1959-15227-O-PA5) and in the 4th Ave Drill Site case handled by Associate ZA David Weintraub, I was given speaking me equal t o the applicant as a community representav e. The Murphy case involved a new project applicaon. The 4th A ve case was a Review of Compliance/Condions in r esponse to documented non-compliance.

Both of those ZA cases were held because of community and Neighborhood Council intervenon in which I played a primary role. That is true even of the Murphy case, in which there was a new project applicaon. Assistant City Attorney Kaufmann-Macias was involved in those developments.

In the current case concerning the West Pico Drill Site, the Review stems from the combinaon of the 2001 Selemen t Agreement and the demonstraon of c ompliance issues brought to the attenon of mulple Offices of the City by officers of NASE (party to the Selemen t) and by Rabbi Bookstein.

Is it really the decision of Associate ZA Irving not to accord NASE's representav e speaking me on a par with the applicant, despite past precedent and the specific history of this case?

Michael Salman

From: Dylan Sittig <dylan.sittig@lacity.org>
Sent: Tuesday, July 7, 2020 12:02 PM
To: Michael Salman <salman@history.ucla.edu>
Cc: Es neh Mailian <estineh.mailian@lacity.org>; Lisa Webber <lisa.webber@lacity.org>; Edber Macedo <edber.macedo@lacity.org>; Rae Drazin <rae@md-advocate.net>; Richard Weiner <rswatty@ca.rr.com>; Rabbi Yonah Bookstein <rabbiyonah@gmail.com>
Subject: Re: Ques ons about hearing, case, case file re West Pico Drill Site (ZA-1989-17683-PA2)

Hello,

Thank you for your comments, they have been received and will be added to the case file.

I am able to respond to some of your questions related to the upcoming hearing and procedures. The mailed public hearing notice serves as the official public notice for the project. The hearing will proceed as scheduled and noticed. At ZA Hearings, the applicants are asked to present their project and then all members of the public are given equal time to provide verbal comments. Time cannot be transferred to other members of the public during public comment. At the hearing, part of what the Zoning Administrator will consider is the appropriate environmental clearance. Thus, no final CEQA document is available at this time. A Public Records Act request does not affect, nor is affected by, a scheduled

hearing. Your PRA request is being processed and Beatrice is aware of your desire to review our response prior to the hearing. We have provided you a timely review of all of the documents in the case file.

The only additional items that have been added to the case file since your review have been multiple emails from you (which you already have) and the attached email.

Sincerely,
Dylan

On Mon, Jul 6, 2020 at 4:59 PM Michael Salman <salman@history.ucla.edu> wrote:

> Dear Dylan
>
> I see that by mid-afternoon the "Hold" was lifted from the Case Information site.
>
> But I would still appreciate a reply to my email inquiries #2 through #7.
>
> Will you at least please respond on the question (#2) about speaking time at the hearing, scheduled for this Thursday morning?
>
> Michael Salman
>
> On 7/6/2020 10:11 AM, Michael Salman wrote:
>
> > Dear Dylan
> >
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The case file now contains documents from CalGEM and links to CalGEM records that prove that 24 well projects have been conducted since 2000 (2 new wells, 12 re-drilled wells, 10 well conversions), all of which were executed without application to the ZA for approval and without environmental clearance. And the case file contains a letter from the applicant that acknowledges these facts.

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Yours

Michael Salman

--

Dylan Sittig
City Planning Associate

Los Angeles City Planning
200 N. Spring St., Room 720
Los Angeles, CA 90012
Planning4LA.org
T: (213) 978-1197

E-NEWS

Dylan Sittig <dylan.sittig@lacity.org>

Questions about hearing, case, case file re West Pico Drill Site (ZA-1989-17683-PA2)

Rae Drazin <rae@md-advocate.net> Sun, Jul 5, 2020 at 6:28 PM
To: Dylan Sittig <dylan.sittig@lacity.org>
Cc: Estineh Mailian <estineh.mailian@lacity.org>, "vince.bertoni@lacity.org" <vince.bertoni@lacity.org>, "lisa.webber@lacity.org" <lisa.webber@lacity.org>, Edber Macedo <edber.macedo@lacity.org>, Dick Weiner <rswatty@ca.rr.com>, Rabbi Yonah Bookstein <rabbiyonah@gmail.com>, Michael Salman <salman@history.ucla.edu>

Mr. Sittig,

I was a party to the 2001 Settlement Agreement and have been living within 5 blocks of the oil drilling site since 1974. It's quite amazing that the non-compliance issues are still with us, even as the owners of the Site have changed. I am concerned with ongoing odors and the lack of 24/7 monitoring and overall compliance, and sincerely hope that finally in 2020 the neighborhood, especially the children, will be protected from potential environmental hazards caused by this facility.

I am thankful to Professor Michael Salman, who has been working tirelessly to achieve this goal. He is authorized to speak on my behalf as my representative.

Sincerely,
[Quoted text hidden]
Rae E. Drazin, Ph.D.
Patient Advocate
8549 Wilshire Blvd. #1100
Beverly Hills, CA 90211
310 968-0404
fax: 310 837-3933
www.md-advocate.net
www.AdvoConnection.com/ac/RaeDrazin

IMPORTANT WARNING: This message is intended for the use of the person or entity to which it is addressed and may contain information that is privileged and confidential, the disclosure of which is governed by applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this information is strictly prohibited. Thank you for your cooperation.

Dylan Sittig <dylan.sittig@lacity.org>

Questions about hearing, case, case file re West Pico Drill Site (ZA-1989-17683-PA2)

Richard S Weiner <rswatty@ca.rr.com> Sun, Jul 5, 2020 at 7:54 PM
To: Rae Drazin <rae@md-advocate.net>
Cc: Dylan Sittig <dylan.sittig@lacity.org>, Estineh Mailian <estineh.mailian@lacity.org>, "vince.bertoni@lacity.org" <vince.bertoni@lacity.org>, "lisa.webber@lacity.org" <lisa.webber@lacity.org>, Edber Macedo <edber.macedo@lacity.org>, Rabbi Yonah Bookstein <rabbiyonah@gmail.com>, Michael Salman <salman@history.ucla.edu>

Dear Mr Sittig,
I am one of the founders and remain an officer of Neighbors for a Safe Environment (NASE). As you know, NASE is a party to the 2001 Settlement Agreement along with Applicant's predecessor. Almost 20 years later the neighborhood has yet to realize the minimal environmental protections we assumed the Settlement Agreement provided. We believe it is necessary to have annual inspections and 24/7 monitoring of the Pico site.
Professor Michael Salman will be representing us at the hearing this week, and we request that he be allowed at least the same amount of speaking time as the applicant .
Sincerely , Richard S.Weiner

Sent from my iPhone

> On Jul 5, 2020, at 6:28 PM, Rae Drazin <rae@md-advocate.net> wrote:
>
> Mr. Sittig,
> [Quoted text hidden]

Dylan Sittig <dylan.sittig@lacity.org>

Questions about hearing, case, case file re West Pico Drill Site (ZA-1989-17683-PA2)

Michael Salman <salman@history.ucla.edu> Mon, Jul 6, 2020 at 10:11 AM
To: Dylan Sittig <dylan.sittig@lacity.org>
Cc: Estineh Mailian <estineh.mailian@lacity.org>, vince.bertoni@lacity.org, lisa.webber@lacity.org, Edber Macedo <edber.macedo@lacity.org>, Rae Drazin <rae@md-advocate.net>, Richard Weiner <rswatty@ca.rr.com>, Rabbi Yonah Bookstein <rabbiyonah@gmail.com>

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Case Information & Documents - Los Angeles City Planning - 7-6-20 10AM.pdf
291K

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Michael Salman

Dylan Sittig <dylan.sittig@lacity.org>

Letters of Concern Regarding the West Pico Drill Site

Jessica Barclay-Strobel <jessicab@soronc.org> Tue, Jun 30, 2020 at 9:30 PM
To: dylan.sittig@lacity.org, paul.koretz@lacity.org, estineh.mailian@lacity.org, Mike.feuer@lacity.org, aviv.kleinman@lacity.org, andy.shrader@lacity.org, edber.macedo@lacity.org, jennifer.tobkin@lacity.org, erica.blyther@lacity.org
Cc: Charlie Stein <charliestein@soronc.org>

Dear Council Member Koretz, Director Bertoni, Chief Zoning Administrator Mailian, City Attorney Feuer, and staff,

Please find the attached letters of concern from the South Robertson Neighborhood Council regarding the West Pico Drill Site located at 9101 W. Pico Blvd.

Please note that, while the February letter has a "draft" watermark, SORO did indeed approve this letter. Due to technical difficulties caused by the pandemic, we have been unable to remove the watermark, but we wanted to get these letters to you now so they can be considered before the upcoming July 9 hearing.

Best Regards,
Jessica Barclay-Strobel

SORO Board Member

2 attachments

022020_SORONC_drill_letter.pdf
185K

061820_SORONC_drill_letter.pdf
270K

soro
south robertson
neighborhoods council

February 21, 2020

Re: Urgent Need for City Ordinances to Require Annual Oil Drill Site General Compliance Inspections and 24/7 Emissions Monitoring

Dear Council Member Koretz,

I am writing on behalf of the South Robertson Neighborhoods Council ("SORO NC") to make an urgent request that City Council pass ordinances to require annual general compliance inspections and 24/7 emissions monitoring at oil drill sites without further delay.

At a duly-noticed meeting of the General Board on February 20, 2020, SORO NC voted 00 yes / 00 no / 00 abstain to send you this letter of urgent concern.

Background on SORO NC's Recent Realization that the City Does Not Require Annual Compliance Inspections or Emissions Monitoring and has been Delaying/Avoiding Action for Years.

Like many other communities in Los Angeles, we have been living with an urban oil drill site in our midst - the West Pico Drill Site – for many decades. On a cyclical basis, every ten to twenty years our community becomes alerted to problems at the site that suddenly make us aware that there is a complex oil and gas extraction operation next door to residences, schools, houses of worship, and retail businesses.

There have been problems at the West Pico Drill Site in the past, as there have been at almost all oil drill sites in the City. However, after the Settlement Agreement between the City and the site operator was approved by City Council in 2001, the operations at the site became quieter, and it seems most people generally ignored the existence of the drill site.

More significantly, the City ignored the drill site, and thus the Five Year Reviews required by the Settlement Agreement were not held in 2010-11 and 2015-16. We now know the neglect extended far beyond that serious lapse.

As we have advised you and the City Attorney and Planning Department in a separate letter, the site operator drilled and/or re-drilled several wells (at least three that we have documented, and as many as twelve according to the site operator) during the years since 2003 – none of which were reviewed and approved by the ZA, as required by LAMC 13.01.H and 13.01.I. In addition, as you already know, five microturbine electric generators were installed in 2018-19, also without ZA review and approval, and in the face of a ZA-assigned condition that prohibits electric generation on site.

We know about this now because odor complaints about the drill site spurred citizens to research the site and find a long trail of compliance problems that the City has been ignoring for decades. We were startled to learn this. We were equally startled to learn that the same City that passed an ordinance to inspect billboards every year cannot be moved to require inspections of oil drill sites in residential neighborhoods.

The Need for Annual Compliance Inspections to Enforce Compliance with City Code and ZA Conditions

As you already know from the recent similar case at the Rancho Park Drill Site, there is an epidemic of non-compliance with City Code and ZA-assigned conditions spread

DRAFT

Krystal Návar
President

Ken Blaker
Vice-President

Jon Liberman
Treasurer

Martin Epstein
Secretary

Charlie Stein
Corresponding Secretary

South Robertson Neighborhoods Council

PO Box 35836
Los Angeles, CA 90035

P: (310) 295-9920
F: (310) 295-9906
E: info@soronc.org

soronc.org

City of Los Angeles Certified Neighborhood Council

soro
south robertson
neighborhoods council

across many oil drill sites in the City. The malady has an obvious root cause: The City has never performed regular general compliance inspections of oil drill sites.

The City's lack of any regular general compliance inspections has signaled to operators that they can undertake a wide variety of projects without making legally required applications to the ZA for approval. They thereby skirt the State's CEQA law, because CEQA review devolves to the City. The same operators get permits from CalGEM (formerly DOGGR) and SCAQMD for these projects because they know those agencies do routine inspections, surprise inspections, and inspections when there are complaints. That disparity in enforcement – zero from the City vs fairly effective enforcement by CalGEM and SCAQMD – created the paper trail citizens followed to document non-compliance with City Code at Rancho Park in 2017 and at West Pico now.

The Stalled Inspection Motion: CF 18-0203

On September 7, 2018, Council unanimously passed CF18-0203, which called for an inspection ordinance and a study of emissions monitoring. The motion passed by Council asked the City Attorney to draft an ordinance for an inspection program, but the City Attorney did not do it, and Council never followed up.

The motion directed the Petroleum Administrator to commence interim inspections until the ordinance is passed, but no inspections have been done.

When CF 18-0203 passed through the ECCEJ Committee on August 21, 2018, chaired by the current Council President, Ms. Nury Martinez, the Committee report called inspections "the critical first step." The reason is obvious. Without inspections to monitor and enforce compliance, all other parts of the code and ZA-assigned conditions are worthless.

We ask you to take the lead in urging Council to enact an oil drill site annual inspection ordinance. And then to follow immediately with an ordinance that requires 24/7 emissions monitoring at all sites, with systems to be approved by the City's Petroleum Administrator.

The public policy necessity of these steps is obvious. The viability of these steps is obvious.

We hope that you will respond to us with an explanation of how you will handle this matter expeditiously so as to protect public safety.

Please do not hesitate to contact me if you have any questions about this letter.

Sincerely,

Krystal Návar
President, South Robertson Neighborhoods Council

Cc: Aviv Kleinman, Office of Council Member Paul Koretz
Andy Shrader, Office of Council Member Paul Koretz
Edber Macedo, Office of Chief Zoning Administrator Estineh Mailian
Jennifer Tobkin, Office of the Los Angeles City Attorney Mike Feuer
Erica Blyther, Interim Petroleum Administrator

DRAFT

Mr. Dylan Sittig
Department of City Planning
200 N. Spring Street
Los Angeles, CA 90012
dylan.sittig@lacity.org
19 June 2020

Re: ZA-1989-17683-PA2; ENV-2020-1328-EAF

Dear Mr. Sittig,

I am writing on behalf of the South Robertson Neighborhoods Council ("SORO NC") to comment on the Review of Compliance for the West Pico Drill Site, located at 9101 & 9150 W. Pico Blvd, and to request specific changes to the Zoning Administrator ("ZA") assigned conditions of use that govern that Controlled Drill Site.

At a duly-noticed meeting of the General Board on June 18, 2020, SORO NC resolved by a vote to send you this letter.

1. Documented Evidence of Compliance Problems

As you are likely aware, multiple compliance problems have already been documented by reviewing the West Pico Drill Site's Planning Department case files with reference to the 2001 Settlement Agreement and other public documents.

From these public records, we know that the following issues existed:

- **Failure to hold required Five Year Reviews.** No reviews have been conducted since at least 2005-06 as they were not held 2010-11 or 2015-16.
- **Installation of expressly prohibited microturbiness.** Five 200 Kilowatt microturbine electric generators (1 Megawatt total) were installed in 2018-19 with no application to or approval from the ZA, despite the express prohibition of electric generation on site. The operator acknowledges in its current PA Application for this review that it installed one microturbine, but it erroneously claims that microturbines are not prohibited.[1].
- **Drilling of two new wells without ZA approvals.** Two new oil wells, West Pico Well #58 (API # 03726615) and Well #59 (API # 03727133), were drilled in 2005-06 and 2010, respectively, without ZA Approval as required.[2],.
- **Re-drilling of at least one existing well without ZA approval.** At least one existing oil well, HW Well #10 (API # 03721994) was re-drilled in 2004, without ZA Approval.[3]
- **Operator claims that 12 new wells have been drilled at the site since 2003.** Operator's affiliate stated that twelve new wells have been drilled from this location since 2003. While this appears to be an inaccurate statement, it may refer to the re-drilling of existing wells as well as the drilling of two new wells, which fails to reference that all 59 wells have appeared to be operational

[1] See ZA Condition 49 of the 2000 determination in ZA-1989-17683-PAD and in ZA Condition 1 (applying LAMC 13.01.F.43) in the 1965 "mother case" ZA-1965-17683
[2] LAMC 13.01.H and 13.01.I
[3] *Ibid*.

- **All projects undertaken without ZA review are in violation of CEQA.** Each of these projects, including at least one re-drilled well, two newly drilled wells, and the installation of five 200 Kilowatt microturbines required environmental clearance under CEQA, but the operator failed to obtain the necessary ZA approval and wrongly informed CalGEM that no CEQA documents were necessary.

- **Repeated LAFD Notices of Violation for leaving spiled or leaked Petroleum on surfaces..** The LAFD resumed annual inspections of drill sites to monitor compliance in or about 2017. On multiple separate occasions, Fire Safety violations were found as set forth in the attached notices. Said violations were further problematic as they violated the conditions set forth in the prior action related to this drill site.[4]

- **Odor Problems emanating from the drill site.** Numerous neighbors in addition to Council Member Paul Koretz's own personal testimony have complained of petroleum odors around the drill site for past several years. At a committee meeting on October 15, 2019, *Mr. Koretz said, "You can smell the oil. You can taste the oil."*[5]

2. Revised Conditions, ZA Findings, and ZA Orders to Monitor and Enforce Compliance, and to Protect the Environment, Public Health, and Public Safety

There is a clear and long history of non-compliance and nuisance at the West Pico Drill Site, which indicates the need for stronger enforcement mechanisms and stronger protections for the environment, public health, and public safety. We request that the ZA to adopt the following new and modified Conditions of Use, Findings, and Orders to protect public health, safety, and the environment, and ensure future compliance with City law at the West Pico Drill Site.

- **Require Annual Compliance Inspections Led by Petroleum Administrator:** Annual Compliance Inspection to be led by the Office of the Petroleum Administrator, an office that was revived in 2016 for this specific purpose, to ascertain compliance with City Code and ZA-assigned conditions, with copies of the inspection report to be delivered to the ZA and Council District 5 Office.

- **Require Permanent 24/7 Emissions Monitoring:** Installation and continuous operation of 24/7 Emissions Monitoring using up-to-date equipment that records data and has a central alarm connection to an office that is staffed 24/7. The monitoring system equipment must be approved by the Office of the Petroleum Administrator, either by listing the system on a pre-approved list or by review of individual application. Emissions data shall be reported quarterly to the Office of the Petroleum Administrator and the ZA, and both offices shall promptly forward copies of the quarterly data to the Council District 5 Office.

- **Require Recurring Five Year Reviews of Compliance and Conditions by the ZA, as Mandated by the City's 2001 Settlement Agreement:** Amend Condition 78 of the 2000 ZA determination to include the terms of the Settlement Agreement that require recurring Five Year Reviews of Conditions.

- **Finding & Order: Find that the 5 Microturbines Installed in 2018 were Illegally Installed and Order that they Either be Removed or Made the Subject of a Full Application for ZA Review**

[4] See Conditions 46, 47, 57, and 61 of the 2000 determination in ZA-1989-17683-PAD and Condition 1 of the 1965 "mother case" ZA-1965-17683

[5] o Transcript - https://lacity.granicus.com/TranscriptViewer.php?view_id=46&clip_id=19441

Within Six (6) Months. This review shall also be done under CEQA and failure to comply should result in prompt revocation proceedings under LAMC 12.27.1.

- **Finding & Order: Find that Wells Drilled or Re-Drilled since 2003 were Drilled Without ZA Approval and Order that Within 6 Months All Such Wells Made the Subject of a Full Application for ZA Review.** This review shall also be done under CEQA and failure to comply should result in prompt revocation proceedings under LAMC 12.27.1

3) Concerns about Process and Thoroughness in this Review

In February 2020, SORO NC wrote to Chief Zoning Administrator Mailian requesting that the Petroleum Administrator be tasked to conduct a comprehensive compliance inspection and report the results before this Review of Compliance is sent forward to Public Hearing. SORO NC has not received a response, and it appears that no comprehensive compliance inspection is being completed.

We remain concerned that, without a comprehensive compliance inspection before the Public Hearing, the ZA and the public will be deprived of necessary and critical information and we remain concerned that any later report from the Petroleum Administrator to the ZA after the Public Hearing would impinge on the due process rights of all parties.

The evidence presented above demonstrates that in addition to non-compliance with specific mitigation measures imposed by ZA conditions, the operator of the site has conducted multiple major projects without ZA review and therefore without CEQA clearance.

A fresh and new and proper environmental review is needed in this case. The nature of the case (non-compliance and projects undertaken without application) necessitates a comprehensive compliance inspection as the predicate to define the scope of review under CEQA.

Please do not hesitate to contact me if you have any questions about this letter.

Sincerely,

Cc: Paul Koretz, Councilmember District 5
Aviv Kleinman, Office of Council Member Paul Koretz
Andy Shrader, Office of Council Member Paul Koretz
Edber Macedo, Office of Chief Zoning Administrator Estineh Mailian
Estineh Mailian, Chief Zoning Administrator

Dylan Sittig <dylan.sittig@lacity.org>

Letters of Concern Regarding the West Pico Drill Site

Jessica Barclay-Strobel <jessicab@soronc.org> Wed, Jul 1, 2020 at 9:16 AM
To: dylan.sittig@lacity.org, paul.koretz@lacity.org, estineh.mailian@lacity.org, Mike.feuer@lacity.org, aviv.kleinman@lacity.org, andy.shrader@lacity.org, edber.macedo@lacity.org, jennifer.tobkin@lacity.org, erica.blyther@lacity.org
Cc: Charlie Stein <charliestein@soronc.org>

Dear Council Member Koretz, Director Bertoni, Chief Zoning Administrator Mailian, City Attorney Feuer, and staff,

Please find attached another letter of concern from the South Robertson Neighborhood Council regarding the West Pico Drill Site located at 9101 W. Pico Blvd. This February letter is in addition to the two letters attached to the email below.

Please note that, while the attached letter has a "draft" watermark, SORO did indeed approve this letter. Due to technical difficulties caused by the pandemic, we have been unable to remove the watermark, but we wanted to get this letter to you now so it can be considered before the upcoming July 9 hearing.

Best Regards,
Jessica Barclay-Strobel

SORO Board Member
[Quoted text hidden]

022020_SORONC_drill_letter_2.pdf
334K

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neighborhoods council

February 21, 2020

Re: Review of Compliance at the West Pico Drill Site

Dear Council Member Koretz, Director Bertoni, Chief Zoning Administrator Mailian, and City Attorney Feuer,

I am writing on behalf of the South Robertson Neighborhoods Council ("SORO NC") to make an urgent request for the West Pico Drill Site to be given a comprehensive compliance inspection by the Petroleum Administrator with the inspection report to be released before the Zoning Administrator (ZA) holds a public hearing in the upcoming ZA Review Compliance.

At a duly-noticed meeting of the General Board on February 20, 2020, SORO NC voted 00 yes / 00 no / 00 abstain to send you this letter of urgent concern and to request that a comprehensive compliance inspection be ordered without delay.

Background: Documented Evidence of Compliance Problems

As you are aware, multiple compliance problems have already been documented by cross-checking the West Pico Drill Site's Planning case files against the 2001 Settlement Agreement and public documents available online from LADBS and SCAQMD.

From these public records, we know that required Five Year Reviews were not held in 2010-11 and 2015-16.

We know that five microturbine electric generators were installed in 2018-19 with no approval from the ZA despite the express prohibition of electric generation on site in ZA condition 49.

These two compliance problems are more widely known to the general public thanks to reporting by the LA Times, which also mentioned an LAFD notice of violation for exposed petroleum or petroleum waste in 2018. There is a second similar LAFD notice of violation from 2017, too.

You have received a copy our stakeholder Rabbi Yonah Bookstein's complaint to SCAQMD, which documents that all of PCEC's permits from SCAQMD for the West Pico Drill Site are listed as "expired" by SCAQMD and, following SCAQMD's very clear rules, should be adjudged void since September 3, 2019 when new ownership bought the operation but failed to transfer the SCAQMD permits. The failure to maintain all necessary permits in good standing violates the ZA's approvals for use of the site, so this SCAQMD problem is also a City compliance problem.

And, although there have been no ZA approvals for the site operator to drill new wells or re-drill/deepen existing wells for more than 20 years, several such operations have been undertaken, proven by CalGEM (formerly DOGGR) records for wells at the drill site. Indeed, PCEC's subsidiary Pacific Coast Royalty Trust claims that "Twelve new wells have been drilled from this location since 2003."
https://www.pacificcoastoiltrust.com/trust_overview/properties

Our stakeholders have not yet reviewed the full DATA files for all 62 wells listed at the site on the CalGEM Well Finder System, but a review of several well records already reveals three drilling projects since 2003:

DRAFT

Krystal Návar
President

Ken Blaker
Vice-President

Jon Liberman
Treasurer

Martin Epstein
Secretary

Charlie Stein
Corresponding Secretary

South Robertson Neighborhoods Council

PO Box 35836
Los Angeles, CA 90035

P: (310) 295-9920
F: (310) 295-9906
E: info@soronc.org

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1. New well drilled in 2010: West Pico Well 59, API # 03727133 https://secure.conservation.ca.gov/WellRecord/037/03727133/03727133_2018-12-07_DATA.pdf
2. New Well drilled in 2005-06: West Pico Well 58 API # API 03726615 https://secure.conservation.ca.gov/WellRecord/037/03726615/03726615_2019-04-17_DATA.pdf
3. Well re-drilled in February-April 2004: HW Well 10API # 03721994 https://secure.conservation.ca.gov/WellRecord/037/03721994/03721994_DATA_2014-08-25.pdf

A full review of all the CALGEM well records might show more drilling operations since 2003, perhaps as many as 12, as PCEC itself proclaims – ***but none of these were approved by the ZA, as plainly required by LAMC 13.01.H Drilling Site Requirements and 13.01.I* Permits.**

Why a Comprehensive Compliance Inspection led by the Petroleum Administrator is Needed Prior to the Public Hearing in the ZA Review

In 2017, the Petroleum Administrator organized and led a comprehensive compliance inspection of the Rancho Park Drill Site pursuant to a directive from City Council (CF 17-0149). That action by Council was prompted by documented evidence of several projects undertaken at that site over a twenty year period without required ZA approvals, including the installation of microturbines and gas engine generators, gas processing equipment, and a large flare to burn gas. That documentary record was assembled the same way that our stakeholders have been assembling the documentary record of compliance problems at the West Pico Drill Site, namely by cross-checking the Planning case files with public records from LADBS, SCAQMD, and DOGGR (now CalGEM). ***When the Petroleum Administrator led an on-site inspection in March 2017, his team found more than twice as many compliance issues than could be ascertained from the documentary record alone.*** The subsequent report on that inspection led to the ZA convening a Review of Compliance.

It is the position of the SORO NC Land Use Committee and of the General Board of SORO NC that the compliance problems at the West Pico Drill Site need to be addressed by the City with at least the same level of attention that the City bestowed on compliance problems at the neighboring Rancho Park Drill Site. Anything less would be unjust and indefensible.

Producing the results of an on-site comprehensive compliance inspection before the holding of the public hearing in the upcoming ZA Review of Compliance is necessary for five major reasons:

1. **An expert inspection report before the hearing is necessary to inform the ZA on technical matters he or she will hear about at the hearing**. Without that report coming in advance of the hearing the ZA would be unprepared and would likely miss the significance of crucial facts to be discussed at the hearing.
2. **An expert inspection report made available for public review before the hearing is absolutely essential for informing the public about compliance on the site.** Without that report, the public has no ability to see inside the site to evaluate compliance problems not evident in publicly available documents.
3. **An expert inspection report made available for review by all parties before the hearing is essential for running a fair hearing that protects everyone's due process rights, including both the site operator's rights**

DRAFT

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and the public's rights. The City has been sued over this very issue when expert reports by the Petroleum Administrator have been provided to the ZA long after the public hearing has passed and just shortly before the ZA rendered a determination. That serves nobody's interests and is a bad practice.

4. **A site inspection by a qualified expert is a standard practice of good government and common sense.** From County Health inspections of restaurants to LADBS inspections of bathroom remodels, LAPD crime scene investigations, LAFD fire prevention inspections and arson investigations, all the way to the City's ordinance requiring annual inspections of billboards, site inspections are such a fundamental necessity and such an ordinary practice that we are shocked that we find ourselves needing to make a case for inspecting an oil drill site in a residential neighborhood.
5. **The so-called "Desk Inspection" of the West Pico Drill Site produced by Petroleum Administrator staff in late 2019 has been proven incomplete and grossly inadequate, so it is clear that the model to follow is that which was done for the Rancho Park Drill Site in the March 2017 on-site inspection and the resultant report issued in April 2017.** Anything less would be beneath the standard for public safety and good governance.

The Authority to Conduct an Inspection of the Drill Site

LAMC 12.26.D provides the authority to inspect "whenever it is necessary . . . or whenever" there is "reasonable cause to believe that" there are violations of the Zoning Code "or other applicable law."

The Superintendent of Building "or his authorized representative," who could be the Petroleum Administrator or could be accompanied by the Petroleum Administrator as per Administrative Code 19.48, "is hereby authorized to enter such property at any reasonable time and to inspect the same."

There is more than "reasonable cause to believe that" there are violations of the Zoning Code, and there is obvious necessity for an inspection to inform the ZA's Review of Compliance, to inform the public, to protect due process rights, and to meet the needs of good governance and common sense.

The Zoning Code thus empowers the Director of Planning and the ZA to ask the Superintendent of Building to inspect. Because evaluating compliance at oil drill sites requires specialized knowledge that LADBS staff do not possess, the proper step is for Planning and the Superintendent of Building to direct the Petroleum Administrator to lead the inspection of the site. This is expressly provided for in the Administrative Code and it is one of the principal reasons there is a Petroleum Administrator.

It should be noted, too that Section 19.48 (a) also gives the Petroleum Administrator the duty to "obtain requested technical advice," so that if the Petroleum Administrator and Board of Public Works believe it is necessary to hire outside professionals on contract to perform some parts of the inspection, that general practice is already authorized by the City Code (alongside all other rules and processes governing contracts).

The fact that the Petroleum Administrator successfully and effectively inspected the Rancho Park Drill Site in 2017 proves that it can be done, and that it can be completed in two months or less.

DRAFT

We hope that you will respond to us with an explanation of how you will handle this matter so as to protect public safety and demonstrate good governance.

Please do not hesitate to contact me if you have any questions about this letter.

Sincerely,

Krystal Návar
President, South Robertson Neighborhoods Council

Cc: Aviv Kleinman, Office of Council Member Paul Koretz
Andy Shrader, Office of Council Member Paul Koretz
Edber Macedo, Office of Chief Zoning Administrator Estineh Mailian
Jennifer Tobkin, Office of the Los Angeles City Attorney Mike Feuer
Erica Blyther, Interim Petroleum Administrator

DRAFT

Dylan Sittig <dylan.sittig@lacity.org>

Public Records Act Request & comments Re: request to see the case file for ZA-1989-17683-PA2 & ENV-2020-1328-CE

Michael Salman <salman@history.ucla.edu> Mon, Jun 29, 2020 at 6:06 PM
To: Dylan Sittig <dylan.sittig@lacity.org>
Cc: Edber Macedo <edber.macedo@lacity.org>, Estineh Mailian <estineh.mailian@lacity.org>, vince.bertoni@lacity.org, lisa.webber@lacity.org

Dear Dylan

This afternoon I received an email from Bryan Walker with 4 pdf files and this message: "Attached are the complete case material documents for both ZA-1989-17683-PA2 and ENV-2020-1328-EAF for your review. Thank you. "

Thank you for this prompt response, especially under the extraordinary work conditions of the public health emergency.

I am writing to convey two concerns, **the second of which I will frame in the form of a Public Records Request**.

There are also other significant issues in these documents that I hope we will have a chance to discuss soon.

In emails to Mr. Bertoni, Ms. Webber, and Ms. Mailian I have proposed and requested a meeting with them, to also be attended by PCEC's representative Mike Finch. I know from Mr. Finch that he would be amenable to such a meeting. But I have not received a response from Planning to my requests for this meeting.

Here are the two concerns I wish to raise now:

1) Organization of the case file and completeness of the case file:

- Correspondence concerning the case is split between the "left side" and "right side" pdf files, and hence between the left and right sides of the physical file.
- Correspondence from the public is not in chronological order of receipt, and thus appears jumbled, with related correspondence from close to the same date separated by correspondence from weeks later that addresses other topics. In my experience, it is common to arranged correspondence chronologically by descending date.
- Similarly, the materials from PCEC are in two pdf files and thus in two locations in the physical file, and these are also not fully chronological.
- Notices of Violation from regulatory agencies are in scattered places: the EAF file, the Pocket, and the right side.
    - On the EAF, it appears you made a note that Notices of Violation needed to be included in the EAF, and then some LAFD Notices were included, but not all the LAFD Notices, and not the SCAQMD Notices that are filed elsewhere only - it would be easy for the ZA not to have a clear view of this record.
- My concern here is about making the file more legible for the ZA
- In addition, the record of past ZA approvals is critical in this case. I have reviewed the historical case file in City records (1965 to present), much of which is also in the OPNGAS "desk inspection" from November 2019. The whole prior case record should be made part of the current case file. At minimum, it is absolutely critical that the following cases be included in the case file for the ZA to review:
    - ZA-1965-17683 (mother case that established one single integrated Controlled Drill Site across two City blocks).
    - ZA-1967-18893 (continued to treat as one integrated Controlled Drill Site as did all cases until 2000 & approved expansion of the processing half located at 9151 W Pico)
    - ZA-1967-18191 (authorized drilling of first wells from site that would bottom under Beverly Hills)
    - ZA-1969-17683 (approved expansion of the well cellar but not the drilling of new wells to fill the slots in the cellar)
    - ZA-1972-20869 (one of several cases from 1969-1979 that approved specific numbers of additional new wells, proving that ZA-1969-17683 approved the expanded cellar but not any new wells)
    - ZV-79-137-O (from June 29, 1979, the last case on Planning's own Chronology of Cases in which a new well was approved or any new drilling or re-drilling was approved)
    - ZA-1989-17683 (a Review of Conditions that addressed years of complaints).
    - EIR 98-0149-PA (the EIR for the project proposed in 1998 and approved in 2000, which subsequently went to court - critical for seeing that this current review is of an entirely different set of projects and operations not considered in that two decade old EIR)
    - ZA-1989-17683-PAD is already in the case file

- 2001 Settlement Agreement is already there
- Any supplement or addendum to the EIR after the Settlement changed mitigations and the MMRP, but I saw no such documents in the case file at City Records.
- ZA-1989-17683-PA1 (the Review from 2005-06) is already in the case file.

2) Public Records Act Request Concerning the Decision to Bring the Case to Hearing with a Proposed Categorical Exemption from CEQA under Class 9 and Class 21, as Indicated on the Hearing Notice, and Comment on the Inappropriate of these Exemptions

The Hearing Notices lists a CEQA case number, ENV-2020-1328-CE, and the Notice states:

> REQUESTED ACTION(S): The Zoning Administrator shall consider:
> 1. An Exemption from the California Environmental Quality Act (CEQA) pursuant to CEQA Guidelines Section 15309 (Class 9) and Section 15321 (Class 21).

There is nothing in the case file that speaks to this proposal or the decision to bring the case to hearing with a Categorical Exemption under Classes 9 & 21..

I am requesting, as per the Public Records Act, that I please be given access to all paperwork, emails, letters, memos, reports, proposals, and written discussions or analyses of the proposed Categorical Exemption in this case, by any Planning staff members involved in the environmental clearance process in this case and by any officers of Planning involved in the environmental clearance process in this case.

In addition to my prior indication of the obvious clash of the proposed Categorical Exemption with ZA Memo 133 when it comes to any Review that considers the drilling, re-drilling, and/or conversion of wells -- as this review must grapple with 24 such well projects -- I want to point to another glaring clash that is presented on the Hearing Notice itself.

A Class 9 Categorical Exemption can be given in a proceeding that is entirely for the purpose of inspection. But this Review is not an "inspection" at all, and it is certainly "not limited entirely to inspections." Here is the definition of a Class 9 exemption from the CEQA Guidelines:

> 15309. INSPECTIONS Class 9 consists of activities limited entirely to inspections, to check for performance of an operation, or quality, health, or safety of a project, including related activities such as inspection for possible mislabeling, misrepresentation, or adulteration of products. Note: Authority cited: Section 21083, Public Resources Code; Reference: Section 21084, Public Resources Code.

A Class 21 Categorical Exemption can be given for enforcement activities, typified by revocation, but this review is not a revocation proceeding (which would be governed by LAMC 12.27.1)

> 15321. ENFORCEMENT ACTIONS BY REGULATORY AGENCIES Class 21 consists of: (a) Actions by regulatory agencies to enforce or revoke a lease, permit, license, certificate, or other entitlement for use issued, adopted, or prescribed by the regulatory agency or enforcement of a law, general rule, standard, or objective, administered or adopted by the regulatory agency. Such actions include, but are not limited to, the following: (1) The direct referral of a violation of lease, permit, license, certificate, or entitlement for use or of a general rule, standard, or objective to the Attorney General, District Attorney, or City Attorney as appropriate, for judicial enforcement; (2) The adoption of an administrative decision or order enforcing or revoking the lease, permit, license, certificate, or entitlement for use or enforcing the general rule, standard, or objective. (b) Law enforcement activities by peace officers acting under any law that provides a criminal sanction; (c) Construction activities undertaken by the public agency taking the enforcement or revocation action are not included in this exemption. Note: Authority cited: Section 21083, Public Resources Code; Reference: Section 21084, Public Resources Code.

What is on the table in this review, according to the Hearing Notice itself, is a consideration of conditions, i.e., mitigation measures. The Hearing Notice says, "The Zoning Administrator may impose corrective conditions if warranted."

Evaluating mitigation measures and their need triggers the procedural and substantive requirements set by CEQA.

This case is not "limited entirely to inspections," nor is it a revocation case. Class 9 and Class 21 Categorical Exemptions are entirely inappropriate.

The Court of Appeals decision that upheld ZA Memo 133 in 2019 turned, in part, on the continuing power of the ZA authorized by LAMC 13.01.E.2.i to modify conditions at oil drill sites as experience or observation demonstrated the need, as well as by the authorization under LAMC 13.01 to establish or modify conditions for projects at Controlled Drill Site requiring approval.

Condition 78 of ZA-1989-17683-PAD sets the procedure for this review, as per the expanded terms of the 2001 Settlement Agreement, calling for the assessment of the "effectiveness" of conditions, the evaluation of "neighborhood impacts," and an analysis of "the efficacy of mitigation measures." That is not a mere inspection, nor is it a revocation proceeding. It is the heart of what environmental review under CEQA is about.

Bringing this case to hearing without even an Initial Study, let alone without a draft MND or draft EIR that assesses mitigation measures, is starkly inappropriate.

Yours,

Michael Salman

On 6/26/2020 4:51 PM, Dylan Sittig wrote:

> Dear Michael,
>
> You are welcome. Those are the same case, the suffix is changed through the process and not finalized until the Letter of Determination is issued.
>
> Sincerely,
> Dylan
>
> On Fri, Jun 26, 2020 at 4:41 PM Michael Salman <salman@history.ucla.edu> wrote:
>
> > Dear Dylan
> >
> > Thank you for setting up this process for the ZA-1989-17683-PA2 and ENV-2020-1328-EAF case files.
> >
> > Will the case file for ENV-2020-1328-CE be scanned and uploaded as well? That is the CEQA case number listed on the hearing notice:
>
Case No.	ZA-1989-17683-PA2
CEQA No.	ENV-2020-1328-CE
Held By:	Associate Zoning Administrator
Date:	**July 9, 2020**
Time:	**9:00 a.m.**
Place:	In conformity with the Governor's Executive Order N-29-20 (March 17, 2020) and due to concerns over COVID-19, the Office of Zoning Administration Public Hearing will be conducted entirely telephonically.

> > Thank you
> >
> > Michael
> >
> > On 6/26/2020 4:32 PM, Dylan Sittig wrote:
> >
> > > Dear Michael,
> > >
> > > Due to restrictions related to COVID-19 we are providing digital access to case documents at this time. I have let our administrative staff know about your request to review the case file for ZA-1989-17683-PA2 and ENV-2020-1328-EAF. Early next week they will scan the case file and upload it to an online document transfer system called Hightail. You will receive an email with a link to the scanned documents on Hightail.

Sincerely,
Dylan

On Fri, Jun 26, 2020 at 10:32 AM Michael Salman <salman@history.ucla.edu> wrote:

> Dear Edber and Dylan
>
> Per the hearing notice, I am writing to request access to review the case files for ZA-1989-17683-PA2, ENV-2020-1328-CE, and ENV-2020-1328-EAF:
>
> > FILE REVIEW - The complete file will be available for public
> > inspection by appointment only. Please email the staff identified on
> > the front page, at least three (3) days in advance, to arrange for an
> > appointment.
>
> I am particularly interested in checking the correspondence that has been made part of the case files, as well any materials that have been added by the City or any parties since the initial Plan Approval application, EAF, and appendices to the so-called "findings" were submitted on or about March 1, 2020.
>
> Thank you
>
> Michael Salman

--

LOS ANGELES CITY PLANNING

Dylan Sittig
City Planning Associate
Los Angeles City Planning
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LOS ANGELES CITY PLANNING

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Dylan Sittig <dylan.sittig@lacity.org>

Response to Hold Letter

19 messages

Michael Finch <mfinch@energyprojectllc.com> Fri, Jun 5, 2020 at 10:23 AM
To: Dylan Sittig <dylan.sittig@lacity.org>
Cc: Philip Brown <philip.brown@pceclp.com>, "Rick Clark (rick.clark@pceclp.com)" <rick.clark@pceclp.com>

Dylan, please click on the link to download the response to the Hold Letter.

https://www.dropbox.com/s/zzx7vr8m6yyt0cp/PCEC%20Response%20to%20Hold%20Letter%2020200604.pdf?dl=0

If you have any questions please call.

Thanks

Mike Finch

Energy Project Solutions LLC

841 Mohawk Street, Suite 120

Bakersfield CA 93309

www.energyprojectllc.com

Cell 661-809-4956

Dylan Sittig <dylan.sittig@lacity.org> Fri, Jun 5, 2020 at 4:47 PM
To: Michael Finch <mfinch@energyprojectllc.com>
Cc: Philip Brown <philip.brown@pceclp.com>, "Rick Clark (rick.clark@pceclp.com)" <rick.clark@pceclp.com>, Edber Macedo <edber.macedo@lacity.org>

Hello Mike,

Thank you for the email and the response to the hold letter. It has been received and will be reviewed in the next few days.

I have a few project updates for you. First, we are looking at a tentative hearing date of July 9th at 9am. We need to finalize that date soon in order to meet notification requirements. If this date presents an issue for your team's participation, please let me know as soon as possible (on Monday if possible). As I mentioned on the phone yesterday, the hearing would be conducted telephonically. This will allow for the same public participation as normal Zoning Administrator hearings. We began conducting hearings over the phone a few weeks ago and will have conducted well over 100 hearings over the phone by July 9th. For more information, please see the information compiled on this website about the telephonic hearings. There will most likely not be a decision made at the hearing and instead it would serve as an opportunity to hear from members of the public. Please let me know if the date presents an issue.

Second, you mentioned on the phone that you would be willing to host a site visit for us as a part of the review. After some internal discussions, we believe that would be beneficial to our review. We would want to work with you to respect any procedures you have in place regarding COVID-19, thus we are wondering if you have any special protocols we should be aware of, including a maximum capacity for the visit. Maybe we could look to have the site visit during the week of June 15th or 22nd; are there a few dates and times that would work for you within that period?

Thank you and please have a nice weekend.

Sincerely,
Dylan

[Quoted text hidden]

--

Dylan Sittig
City Planning Associate
Los Angeles City Planning
200 N. Spring St., Room 720
Los Angeles, CA 90012
Planning4LA.org
T: (213) 978-1197
E-NEWS

Michael Finch <mfinch@energyprojectllc.com> Mon, Jun 8, 2020 at 3:23 PM
To: Dylan Sittig <dylan.sittig@lacity.org>
Cc: Philip Brown <philip.brown@pceclp.com>, "Rick Clark (rick.clark@pceclp.com)" <rick.clark@pceclp.com>, Edber Macedo <edber.macedo@lacity.org>

Dylan, thank for the response. As to the hearing we are discussing with our group to make sure the right individuals can attend. We need another day or so. As to the site visit, either of those days work. As for our protocols, we suggest following the City guidance on face masks and also the CDC guidance on social distancing. I suspect we could have 6-8 people in the facility and meet these guidelines. Please let us know what works for you.

Thanks

Mike Finch

Energy Project Solutions LLC

841 Mohawk Street, Suite 120

Bakersfield CA 93309

www.energyprojectllc.com

Cell 661-809-4956

[Quoted text hidden]

Dylan Sittig <dylan.sittig@lacity.org> Tue, Jun 9, 2020 at 9:37 AM
To: Michael Finch <mfinch@energyprojectllc.com>
Cc: Philip Brown <philip.brown@pceclp.com>, "Rick Clark (rick.clark@pceclp.com)" <rick.clark@pceclp.com>, Edber Macedo <edber.macedo@lacity.org>

Hi Mike,

Please let me know today, if possible, if you and your team will be able to attend a July 9th hearing date. I do apologize for the last minute request.

I will ask our team about the two dates for a site visit and will ensure that we limit our group size to be safe.

Thank you,
Dylan

[Quoted text hidden]

Michael Finch <mfinch@energyprojectllc.com> Tue, Jun 9, 2020 at 3:57 PM
To: Dylan Sittig <dylan.sittig@lacity.org>
Cc: Philip Brown <philip.brown@pceclp.com>, "Rick Clark (rick.clark@pceclp.com)" <rick.clark@pceclp.com>, Edber Macedo <edber.macedo@lacity.org>

Dylan, yes we are fine with the July 9th date.

On another note, can you/ us invite the Petroleum Administration to the site visit. We would like to familiarize them with the facility as well. I think it would be helpful to get some input from them. Your thoughts?

[Quoted text hidden]

Dylan Sittig <dylan.sittig@lacity.org> Tue, Jun 9, 2020 at 4:03 PM
To: Michael Finch <mfinch@energyprojectllc.com>
Cc: Philip Brown <philip.brown@pceclp.com>, "Rick Clark (rick.clark@pceclp.com)" <rick.clark@pceclp.com>, Edber Macedo <edber.macedo@lacity.org>

Hi Michael,

That's great. Thank you for confirming the hearing date.

Thank you for bringing up the Petroleum Administrator. We agree that they should accompany Planning on the upcoming site visit. We can reach out and coordinate with their office. We are also planning to extend the invitation to our City colleagues at the Building and Safety Department and Fire Department. While keeping in mind the limits on the group size.

I hope to get back to you in the next few days more about the site visit as we continue to coordinate.

Thank you,
Dylan

[Quoted text hidden]

Dylan Sittig <dylan.sittig@lacity.org> Thu, Jun 11, 2020 at 12:59 PM
To: Michael Finch <mfinch@energyprojectllc.com>
Cc: Philip Brown <philip.brown@pceclp.com>, "Rick Clark (rick.clark@pceclp.com)" <rick.clark@pceclp.com>, Edber Macedo <edber.macedo@lacity.org>

Hello Mike,

I hope that you are well. The morning of June 22nd will work best for the Zoning and Petroleum Administrators for the site visit. Would meeting on site at 9:30am on June 22nd work for your team?

Secondly, the attached hearing notice will be mailed out to the 1500ft radius by Monday. The Council Office has been provided with the notice. We will be notifying interested parties who have already submitted comments to us about the hearing over email later this afternoon.

Please let me know about the date and time for the site visit.

Sincerely,
Dylan

[Quoted text hidden]

FINAL HEARING NOTICE ZA-1989-17683-PA2.pdf
642K

Michael Finch <mfinch@energyprojectllc.com> Fri, Jun 12, 2020 at 11:20 AM
To: Dylan Sittig <dylan.sittig@lacity.org>
Cc: Philip Brown <philip.brown@pceclp.com>, "Rick Clark (rick.clark@pceclp.com)" <rick.clark@pceclp.com>, Edber Macedo <edber.macedo@lacity.org>, Pat Vigeant <pvigeant@pceclp.com>

We are fine with June 22nd. Let us know what time you would like to be there. We are there early.

[Quoted text hidden]

Dylan Sittig <dylan.sittig@lacity.org> Fri, Jun 12, 2020 at 5:08 PM
To: Michael Finch <mfinch@energyprojectllc.com>
Cc: Philip Brown <philip.brown@pceclp.com>, "Rick Clark (rick.clark@pceclp.com)" <rick.clark@pceclp.com>, Edber Macedo <edber.macedo@lacity.org>, Pat Vigeant <pvigeant@pceclp.com>

Hi Mike,

Thank you for confirming the 22nd. 9:00am will work best for us. Is that ok with your team?

Sincerely,
Dylan

[Quoted text hidden]

Michael Finch <mfinch@energyprojectllc.com> Fri, Jun 12, 2020 at 5:13 PM
To: Dylan Sittig <dylan.sittig@lacity.org>
Cc: Philip Brown <philip.brown@pceclp.com>, "Rick Clark (rick.clark@pceclp.com)" <rick.clark@pceclp.com>, Edber Macedo <edber.macedo@lacity.org>, Pat Vigeant <pvigeant@pceclp.com>

Yes we hay works

Mike Finch
Energy Project Solutions LLC
Cell: 661-809-4956
841 Mohawk St. Suite 120
Bakersfield CA 93309

From: Dylan Si g <dylan.sittig@lacity.org>
Sent: Friday, June 12, 2020 5:08:03 PM
To: Michael Finch <mfinch@energyprojectllc.com>

Cc: Philip Brown <philip.brown@pceclp.com>; Rick Clark (rick.clark@pceclp.com) <rick.clark@pceclp.com>; Edber Macedo <edber.macedo@lacity.org>; Pat Vigeant <pvigeant@pceclp.com>

[Quoted text hidden]

[Quoted text hidden]

Michael Finch <mfinch@energyprojectllc.com> Mon, Jun 15, 2020 at 7:11 AM
To: Dylan Sittig <dylan.sittig@lacity.org>
Cc: Philip Brown <philip.brown@pceclp.com>, "Rick Clark (rick.clark@pceclp.com)" <rick.clark@pceclp.com>, Edber Macedo <edber.macedo@lacity.org>, Pat Vigeant <pvigeant@pceclp.com>

9am is good

Thank you

[Quoted text hidden]

Dylan Sittig <dylan.sittig@lacity.org> Mon, Jun 15, 2020 at 12:21 PM
To: Michael Finch <mfinch@energyprojectllc.com>
Cc: Philip Brown <philip.brown@pceclp.com>, "Rick Clark (rick.clark@pceclp.com)" <rick.clark@pceclp.com>, Edber Macedo <edber.macedo@lacity.org>, Pat Vigeant <pvigeant@pceclp.com>

Hi Michael,

Great! Thank you! I will get back to you in the next few days with the final list of attendees from the City.

Sincerely,
Dylan
[Quoted text hidden]

Dylan Sittig <dylan.sittig@lacity.org> Thu, Jun 18, 2020 at 4:58 PM
To: Michael Finch <mfinch@energyprojectllc.com>
Cc: Philip Brown <philip.brown@pceclp.com>, "Rick Clark (rick.clark@pceclp.com)" <rick.clark@pceclp.com>, Edber Macedo <edber.macedo@lacity.org>, Pat Vigeant <pvigeant@pceclp.com>

Hello,

I want to confirm with you the site visit schedules for Monday at 9:30am. The City will bring three staff from Planning's Office of Zoning Administration, three or four staff from the Petroleum Office, and it is my understanding that Fire Chief Hayden will be in attendance but he might not be able to make it.

Is there a phone number that we should call if staff are running late or can't find the front door? (Just as a contingency)

Thank you and have a nice weekend and I hope that the site visit goes well on Monday.

Sincerely,
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Sounds good. Just call my number if anything changes.

Mike Finch
Energy Project Solutions LLC

Cell: 661-809-4956
841 Mohawk St. Suite 120
Bakersfield CA 93309

From: Dylan Si g <dylan.sittig@lacity.org>
Sent: Thursday, June 18, 2020 4:58:28 PM
[Quoted text hidden]

[Quoted text hidden]

Michael Finch <mfinch@energyprojectllc.com> Fri, Jun 19, 2020 at 9:52 AM
To: Dylan Sittig <dylan.sittig@lacity.org>
Cc: Philip Brown <philip.brown@pceclp.com>, "Rick Clark (rick.clark@pceclp.com)" <rick.clark@pceclp.com>, Edber Macedo <edber.macedo@lacity.org>, Pat Vigeant <pvigeant@pceclp.com>

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Thanks

Mike Finch

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841 Mohawk Street, Suite 120

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www.energyprojectllc.com

Cell 661-809-4956

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Hi Mike,

Thank you. I will share this with the group for monday.

Best,
Dylan

[Quoted text hidden]

Mail Delivery Subsystem <mailer-daemon@googlemail.com> Fri, Jun 19, 2020 at 12:11 PM
To: dylan.sittig@lacity.org

Address not found

Your message wasn't delivered to **pvigeant@pceclp.com** because the address couldn't be found, or is unable to receive mail.

The response from the remote server was:

```
550 5.1.1 <pvigeant@pceclp.com>: Recipient address rejected: User unknown in relay recipient
table
```

Final-Recipient: rfc822; pvigeant@pceclp.com
Action: failed
Status: 5.1.1
Remote-MTA: dns; mx-caprica.easydns.com. (64.68.200.41, the server for the
 domain pceclp.com.)
Diagnostic-Code: smtp; 550 5.1.1 <pvigeant@pceclp.com>: Recipient address rejected: User unknown in relay recipient
table
Last-Attempt-Date: Fri, 19 Jun 2020 12:11:50 -0700 (PDT)

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From: Dylan Sittig <dylan.sittig@lacity.org>
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Cc: Philip Brown <philip.brown@pceclp.com>, "Rick Clark (rick.clark@pceclp.com)" <rick.clark@pceclp.com>, Edber
Macedo <edber.macedo@lacity.org>, Pat Vigeant <pvigeant@pceclp.com>
Bcc:
Date: Fri, 19 Jun 2020 12:11:22 -0700
Subject: Re: Response to Hold Letter
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> *From:* Dylan Sittig <dylan.sittig@lacity.org>
> *Sent:* Thursday, June 18, 2020 4:58:28 PM
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----- Message truncated -----

Mail Delivery Subsystem <mailer-daemon@googlemail.com> Fri, Jun 19, 2020 at 12:11 PM
To: dylan.sittig@lacity.org

Address not found

Your message wasn't delivered to **philip.brown@pceclp.com** because the address couldn't be found, or is unable to receive mail.

The response from the remote server was:

```
550 5.1.1 <philip.brown@pceclp.com>: Recipient address rejected: User unknown in relay recipient
table
```

Final-Recipient: rfc822; philip.brown@pceclp.com
Action: failed
Status: 5.1.1
Remote-MTA: dns; mx-caprica.easydns.com. (64.68.200.41, the server for the
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Last-Attempt-Date: Fri, 19 Jun 2020 12:11:50 -0700 (PDT)

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----- Message truncated -----

Mail Delivery Subsystem <mailer-daemon@googlemail.com> Fri, Jun 19, 2020 at 12:11 PM
To: dylan.sittig@lacity.org

Address not found

Your message wasn't delivered to **rick.clark@pceclp.com** because the address couldn't be found, or is unable to receive mail.

The response from the remote server was:

```
550 5.1.1 <rick.clark@pceclp.com>: Recipient address rejected: User unknown in relay recipient
table
```

Final-Recipient: rfc822; rick.clark@pceclp.com
Action: failed
Status: 5.1.1
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> *From:* Dylan Sittig <dylan.sittig@lacity.org>
> *Sent:* Friday, June 12, 2020 5:08 PM
> *To:* Michael Finch <mfinch@energyprojectllc.com>
> *Cc:* Philip Brown <philip.brown@pceclp.com>; Rick Clark (
> rick.clark@pceclp.com) <rick.clark@pceclp.com>; Edber Macedo <
> edber.macedo@lacity.org>; Pat Vigeant <pvigeant@pceclp.com>
> *Subject:* Re: Response to Hold Letter
>
>
>
> Hi Mike,
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>
>
> Thank you for confirming the 22nd. 9:00am will work best for us. Is that
> ok with your team?
>
>
>
> Sincerely,
>
> Dylan
>
>
>
>
>
> On Fri, Jun 12, 2020 at 11:20 AM Michael Finch <
> mfinch@energyprojectllc.com> wrote:
>
> We are fine with June 22nd. Let us know what time you would like to be
> there. We are there early.
>
>
>
> *Mike Finch *
>
> *Energy Project Solutions LLC*
>
> *841 Mohawk Street, Suite 120*
>
> *Bakersfield CA 93309*
>
>
----- Message truncated -----

2533 4th Ave
Los Angeles, CA 90018
June 24. 2020

Re: ZA-1989-17683-PA2

Dear Mr. Bertoni, Ms. Webber, and Ms. Mailian,

I have been in detailed communication with PCEC about the West Pico Drill Site. I am acting as representative for Richard Weiner and Dr. Rae Drazin, officers of NASE, the organization that is party to the 2001 Settlement Agreement with the City and the operators, as well as acting as a citizen of Los Angeles in my own right.

PCEC and I have identified exactly the same list of projects that require retroactive review. We have also had substantial conversations about solutions to other outstanding issues and problems. I am confident that a consensus or near consensus solution is readily within reach. Getting to those solutions requires a full and proper review of the 25 unapproved projects and would be supported by a joint meeting of myself and PCEC's representative Mike Finch with the Chief ZA and the Director or Assistant Director, as I proposed last week.

Meanwhile, I believe it would be helpful to review a few short passages from LAMC 13.01 that are relevant to this case, to make sure we have all looked at the code requirements that speak to this case.

13.01.H & I:

Do 2 new well projects, 12 redrilled well projects, and 10 well conversion projects executed between 2000 and 2020 require ZA review and approval?

The answer is clearly yes.

There should not be any confusion about whether the Code has changed during the time period in question. It has not.

Please note that LAMC 13.01.H was last amended on October 10, 2000, and LAMC 13.01.I was last amended on July 1, 2000.

> **H. Drilling Site Requirements**. Any person desiring to drill, deepen or maintain an oil well in an oil drilling district that has been established by ordinance, or to drill or deepen and subsequently maintain an oil well in the M3 Zone within 500 feet of a more restrictive zone shall file an application in the Department of City Planning on a form provided by the Department, requesting a determination of the conditions under which the operations may be conducted. **(Para. Amended by Ord. No. 173,492, Eff. 10/10/00.)**
>
> **I. Permits. (Amended by Ord. No. 173,268, Eff. 7/1/00, Oper. 7/1/00.)** No person shall drill, deepen or maintain an oil well or convert an oil well from one class to the other and no permits shall be issued for that use, until a determination has been made by the Zoning Administrator or Area Planning Commission pursuant to the procedure prescribed in Subsection H of this section.

13.01.E.2.b:

If the processing equipment on the block located at 9151 W Pico is not part of a single unified and integrated Controlled Drill Site under review by terms of the Settlement Agreement, then what is the site located at 9151 W Pico and how would it not be illegal under the LAMC?

A single Controlled Drill Site was approved by ZA-1965-17683 in 1965. That site stretched over two City blocks, but it was one integrated Controlled Drill Site, as per the LAMC.

Planning now seems to be saying it is not a single Controlled Drill Site. That produces some serious problems that stretch from the LAMC to CEQA. I will stick to the LAMC here.

LAMC 13.01.E.2.b sets out rules for establishing a Controlled Drill Site:

> 2. **Urbanized Areas** – Each oil drilling district established in an urbanized area shall he subject to the following conditions:
>
> (a) Each district shall be not less than 40 acres in area, including all streets, ways and alleys within the boundaries thereof.
>
> (b) **(Amended by Ord. No. 173,268, Eff. 7/1/00, Oper. 7/1/00.)** Not more than one controlled drill site shall be permitted for each 40 acres in any district and that site shall not be larger than two acres when used to develop a district approximating the minimum size; provided, however, that where the site is to be used for the development of larger oil drilling districts or where the Zoning Administrator requires that more than one oil drilling district be developed from one controlled drilling site, the site may be increased, at the discretion of the Zoning Administrator when concurred in by the Board of Fire Commissioners, by not more than two acres for each 40 acres included in the district or districts.

The restriction to no more than one controlled drill site for each 40 acres in a drilling district has been part of the LAMC since 1945. The West Pico Drill Site was established in Drilling District U-131. The "mother case," ZA-1965-17683, states that U-131 is a 70 acre district. Only one Controlled Drill Site is allowed. Only one Controlled Drill Site has been approved.

The definition of a Controlled Drill Site has remained essentially the same since 1945, too. LAMC 13.01.B says:

> **B. Definitions** – For the purpose of this section the following words and phrases are defined:
>
> **"Controlled Drilling Site"** shall mean that particular location within an oil drilling district in an "**Urbanized Area**" upon which surface operations for the drilling, deepening or operation of an oil well or any incidental operation are permitted under the terms of this section, subject to the conditions prescribed by written determination by the Zoning Administrator. **(Amended by Ord. No. 173,268, Eff. 7/1/00, Oper. 7/1/00.)**

The phrase "any incidental operation" covers all related processing activities, and this is reflected in the "mother case" from 1965 that established the Controlled Drill Site.

LAMC 13.01.E.2.d & g further elucidate the way "drilling and production operations" are covered together by LAMC 13.01, requiring approvals as per 13.01.H (and also 13.01.I), all making clear that properly approved Controlled Drill Sites are the only entities on which these activities are allowed:

> (d) **(Amended by Ord. No. 173,268, Eff. 7/1/00, Oper. 7/1/00.)** Each applicant, requesting a determination by the Zoning Administrator prescribing the conditions controlling drilling and

production operations, as provided in Subsection H of this section, must have proprietary or contractual authority to drill for oil under the surface of at least 75 percent of the property in the district to be explored.

(g) **(Amended by Ord. No. 173,268, Eff. 7/1/00, Oper. 7/1/00.)** Each applicant, requesting a determination by a Zoning Administrator prescribing the conditions controlling drilling and production operations, as provided in Subsection H of this section, shall post in the Office of Zoning Administration a satisfactory corporate surety bond (to be approved by the City Attorney and duplicates to be furnished to him or her) in the sum of $5,000 in favor of the City of Los Angeles, conditioned upon the performance by the applicant of all of the conditions, provisions, restrictions and requirements of this section, and all additional conditions, restrictions or requirements determined and prescribed by a Zoning Administrator. No extension of time that may be granted by a Zoning Administrator or any change or specifications or requirements that may be approved or required by him or her or by any other officer or department of the City or any other alteration, modification of waiver affecting any of the obligations of the grantee made by any City authority or by any other power or authority whatsoever shall be deemed to exonerate either the grantee or the surety on any bond posted pursuant to this section.

If the processing operations located at 9151 W Pico (where the microturbines were installed) are not part of the Controlled Drill Site under review now, then what is that second site?

And what basis is there in the code for oil and gas processing operations at that second site?

It cannot be a second Controlled Drill Site, because a second such site is prohibited by Code and there has been no approval for a second site. But there is no other kind of allowed land use to permit those processing operations, except for the provisions of LAMC 13.01 for Controlled Drill Sites.

If Planning insists that the processing operations at 9151 W Pico are not part of the Controlled Drill Site under review, then Planning is erasing the legal basis for those operations.

The processing operations at 9151 W Pico include oil/gas/water separation of the slurry pumped up from the wells, the redirection of the produced water back to injection wells, and the redirection of the oil and gas to other processing equipment preparatory to sending the oil and gas off the site via pipelines. Without those processing activities, the wells located at 9101 W Pico cannot operate. Thus, if Planning does not treat the two parcels as part of a single integrated unit approved under LAMC 13.01.E.2.b and LAMC 13.01.H, then it will be pulling the plug on both halves because of Planning's own errors.

The obvious solution is to treat the West Pico Drill Site as an integrated unit, as per the LAMC, and clean up the approval problems and errors that have unfortunately proliferated since the 2000 determination.

Fixing the problems would be relatively easy if we could look at them together.

Michael Salman

Dylan Sittig <dylan.sittig@lacity.org>

PCEC West Pico Project

Michael Finch <mfinch@energyprojectllc.com> Fri, Jun 19, 2020 at 4:34 PM
To: Edber Macedo <edber.macedo@lacity.org>
Cc: "Lisa.Webber@lacity.org" <Lisa.Webber@lacity.org>, "Estineh.Mailian@lacity.org" <Estineh.Mailian@lacity.org>, "Vanessa.Soto@lacity.org" <Vanessa.Soto@lacity.org>, "Jennifer.Tobkin@lacity.org" <Jennifer.Tobkin@lacity.org>, Dylan Sittig <dylan.sittig@lacity.org>, Philip Brown <philip.brown@pceclp.com>, "Rick Clark (rick.clark@pceclp.com)" <rick.clark@pceclp.com>

Edber, per our conversation here is our thoughts on the items we discussed.

PCEC was recently contacted by a member of the public and several issues and outstanding questions have been brought to our attention, including (1) whether the wells that have been drilled, re-drilled, and/or converted since the 2000 ZA approval required further ZA approval under LAMC 13.01H and 13.01I; (2) whether activities such as drilling, re-drilling, and/or converting wells underwent adequate CEQA review as part of the EIR process for the 2000 ZA approval; and (3) whether Condition #1 of the 1965 ZA 17683 and Condition #B-49 of the 2000 ZAD 17683 need to be modified to reflect that onsite generation of power is occurring on the production site.

With regard to the first issue, after reviewing our well files, and the 2000 ZA determination, it is clear that certain wells have been drilled, re-drilled and converted since that approval – see "Well List" below. In light of LAMC 13.01H and 13.01I, a question has surfaced regarding whether these well activities required further authorization or approval by the ZA. We have not seen any approvals by the ZA and our conclusion is that applications were likely never submitted to the City. We believe this was because of Condition 72 of the 2000 ZAD 17683 determination which states in part *"Without prior written approval from the Zoning Administrator, no more than the existing 69 wells may be drilled, operated or maintained at the site and these wells shall be located at their current surface locations."* This condition suggests that the 2000 ZA approval covered a total of 69 wells and, provided the facility did not exceed the 69 wells, no further ZA approvals for drilling and redrilling were required. However, it appears the facility may not have had 69 existing wells at the time of the determination. This may have been a misunderstanding during the determination between well "slots" vs actual wells. In any event, a question now exists regarding whether the wells that have been drilled, re-drilled, and/or converted since the 2000 ZA approval required further ZA review and approval pursuant to LAMC 13.01H and 13.01I.

A follow along question concerns the scope of environmental review done for the 2000 approval and whether the review covered specific well activities. It's been suggested that as part of the 2000 approval (drill site modernization project) the activity of drilling, redrilling, and converting wells may not have been covered as part of the EIR process. Rather, the 2000 approval covered only construction of the perimeter walls and a permanent derrick, not drilling or well conversions, because apparently these activities were not part of the project description. If this is accurate, a question now exists regarding the adequacy of the currently proposed Categorical Exemption, and whether additional environmental review should be conducted to cover not only past well activities, but also those that are likely to occur in the future.

The last item is the installation of the microturbine. PCEC identified the installation of the microturbine in its February 2020 application to the City. This installation occurred in 2018 and PCEC obtained a SCAQMD permit, LA building permit, and a LA DWP permit. The 1965 ZA 17683 case Condition #1 included a provision, among others, requiring the project to comply with LAMC 13.01F(b)43.

13.01F(b)43 provides:

That drilling, pumping and other power operations shall at all times be carried on only by electrical power and that such power shall not be generated on the controlled drilling site or in the district.

In addition, 2000 ZAD 17683*Condition B-49* provides:

All Electric Power. All drilling and reworking operations at the site shall at all times be carried on only by electric power and such power shall not be generated on the controlled drilling site or in the district.

The 2000 ZAD 17683 Condition B-49 seems to suggest that power generation cannot happen at the controlled drill site or in the district for drilling and reworking operations, therefore the implication would be that this condition would not be applicable to the production operations.

The facility has two separate power meters. One is dedicated to the drill site and the other the production site. The microturbine is dedicated to the production site only. A question now exists whether Condition #1 of the 1965 ZA 17683 and Condition #B-49 of the 2000 ZAD 17683 need to be modified to reflect that onsite generation of power is occurring on the production site.

PCEC is working with historical documents and realize the City may have more insight. We are asking if the wells drilled, re-drilled, and converted since 2000 required a permit under 13.01H and 1301I? Also, did activities such as drilling, re-drilling, and/or converting wells undergo adequate CEQA review as part of the EIR process for the 2000 ZA approval, or is further review now required? Finally, does Condition #1 of the 1965 ZA 17683 and condition #B-49 of the 2000 ZAD 17683 need to be modified to reflect that onsite generation of power is occurring on the production site. If the answers to any of these questions is yes, then we would like to meet to discuss and decide how to address and reconcile these issues as part of the current process. We look forward to any guidance you can give us.

Thank you

Well List

New Drills

WP 58 - 2005

WP 59 – 2010

Redrills

WP 10 – 2010

WP 11 – 2005

WP 18 – 2003

WP 21 – 2003

WP 34 – 2010

WP 41 – 2004

WP 45 - 2004

RW 2 – 2003

OW 8 – 2003 and 2005

PW 9 – 2004

HW 10 - 2004

Conversions

WP 11 – 2006 converted to producer

WP 22 - 2000 convert injection 2007 convert to production

WP 26 – 2006 convert to injection

WP 29 – 2016 rescinded as injector and now idle producer – not really an conversion.

WP 42 – 2000 convert to injection. 2016 plug back and now idle.

WP 44 – 2003 convert to gas injection, 2005 convert to two string water and gas, 2014 rescinded as injector.

SW 7 – 2017 convert to injection

HW10 – it looks like a request was made for emergency gas injection. We know gas injection did not happen and the request was subsequently cancelled.

Mike Finch

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Cell 661-809-4956

Dylan Sittig <dylan.sittig@lacity.org>

Fwd: ZA-1989-17683-PA2; West Pico Drill Site; inspection and CEQA

Michael Salman <salman@history.ucla.edu> Wed, Jun 17, 2020 at 10:57 AM
To: estineh.mailian@lacity.org, vince.bertoni@lacity.org, lisa.webber@lacity.org
Cc: Rae Drazin <rae@md-advocate.net>, Richard Weiner <rswatty@ca.rr.com>, Rabbi Yonah Bookstein <rabbiyonah@gmail.com>, Edber Macedo <edber.macedo@lacity.org>, Dylan Sittig <dylan.sittig@lacity.org>, Vanessa Soto <vanessa.soto@lacity.org>, Krystal Návar <krystalnavar@soronc.org>

Dear Ms. Mailian, Mr. Bertoni, and Ms. Webber

Please see the attached letter concerning ZA-1989-17683-PA2 & ENV-2020-1328-CE, the Review of the West Pico Drill Site.

The letter describes 25 unapproved major projects at the site since 2000: 2 new wells, 12 re-drilled wells, 10 well conversions, and the microturbine installation. I have discussed the documentation substantiating this with PCEC, the site operator, and we have discussed ways to solve problems.

I propose:

1) That these projects need retroactive review now, in the current review.

2) That a telephone or zoom meeting with you and PCEC could prove helpful. I would participate as representative for Richard Weiner, Dr. Rae Drazin, and NASE, as well as an interested party in my own right.

The letter also walks through the requirements of the LAMC, conditional use approvals on the site, the Settlement Agreement, CEQA, and ZA Memo 133 to establish that a proper review is necessary and the current review is the time to do it.

There is a path forward for a productive solution.

Yours

Michael Salman

To Dir DCP & ZA on CEQA & Review of Compliance ZA-1989-17683-PA2 6-17-20.pdf
394K

2533 4th Ave
Los Angeles, CA 90018
June 17, 2020

Re: ZA-1989-17683-PA2; ENV-2020-1328-CE

Dear Director Bertoni, Assistant Director Webber, and Chief ZA Mailian,

I am in receipt of the Public Hearing notice for this case, which states that a Categorical Exemption from CEQA requirements is being granted.

Since my last correspondence, I have completed my review of the CalGEM well DATA files for all 60 wells that have existed at the West Pico Drill Site (3 have been plugged, so today there are 57 open wells). I have also in the past two weeks had extensive conversations with the site operator, PCEC, about those records. Here is what is in the records:

Since the 2000 ZA determination in ZA-1989-17683-PAD -- which did not approve any well operations covered by LAMC 13.01.H and LAMC 13.01.I, and did not approve microturbines or remove the prohibition against electric generation anywhere on either half of the Controlled Drill Site as well as anywhere in the Oil Drilling District – there have been at least 25 major projects executed without required review by the ZA and without required clearance under CEQA.

Here is a list:

- **2 new wells have been drilled** (WP58, WP59)
- **12 re-drilling projects completed** (OW8 twice, PW9, WP10, WP11, WP18, WP21, WP34, WP41, WP45, RW2, HW10)
- **10 wells have been converted between producers and injectors, or vice versa** (WP11, WP22 twice, WP26, WP29, SW7, WP42 twice, WP44, HW10)
- **5 200KW microturbines were installed, contrary to express prohibition, counting as one project because installed at one time as a 1 Megawatt group (Capstone 1000 unit)**

None of these projects were ever reviewed or approved by the ZA, despite the clear requirements of LAMC 13.01.H and 13.01.I and the requirements of the conditional use approvals governing the site. None of these projects received environmental clearance, as required by CEQA.

CalGEM records that document all of the well projects are readily available online in the DATA files for each well, accessible via CalGEM's Well Search database. The records include applications for permits, permits, and finely detailed daily work histories that are submitted after project completion.

These records have a high degree of reliability, accuracy, and completeness because CalGEM does inspections and levies fines on operators for violations, including failure to submit required reports.

OPNGAS must know how to access these publicly available records. I would be happy to show Planning Department staff how to access and identify the records, and can do so in a one hour Zoom-based tutorial for free as a public service.

PCEC and I have looked at the same set of records, examined the problems, and discussed ways to solve the problems.

Retroactive ZA review of these projects, with proper CEQA review and a proper updating of mitigation measures is the clear path to a consensus or near-consensus solution.

I propose that the Chief ZA and perhaps the Director's office host a meeting with PCEC and myself (as representative for Richard Weiner, Dr. Rae Drazin, and NASE), to discuss a path forward.

The last new well approved by the ZA was approved in 1979. The 1969 approval to expand the well cellar approved only the cellar, not wells to fill the cellar's capacity. After the expansion of the well cellar, the operator returned to the ZA to request approvals for increments of new wells throughout the 1970's because the law has been clear since February 1945: new wells, re-drilled wells, and conversion of wells requires ZA approval before commencing the activity. Any unutilized approval for wells from before 2000 would have elapsed and expired long ago. Condition 1 of the 1965 "mother case" set an expiration clock of 90 days for drilling approvals, and LAMC 12.25 has long set a 3 year expiration clock for ZA approvals in general if another time limit does not apply. The 2000 approval covered only the construction of perimeter walls and a permanent derrick, not well drilling or well conversions, which were not part of the proposed project.

Several of the well re-drilling projects and well conversions were done in 2000 and 2005-06, at the same time that ZA-1989-17683-PAD and ZA-1989-17683-PA1, respectively, were open cases on the ZA's desk. In neither case were any re-drilling or conversion projects proposed or part of the ZA's review. In both instances the ZA apparently knew nothing about these projects because there were no compliance inspections and no trained experts advising the ZA on how to see what was under their noses. Furthermore, the ZA in the 2000 case did not know how many wells existed at the site, could not distinguish between a well cellar and a well, and no one caught these and other errors.

LAMC 13.01.H and 13.01.I make it clear that all new wells, re-drilled wells, and well conversions require ZA approval. There is no exemption for a failure to submit an application, nor an exemption because the City did not pay attention for decades.

Likewise, CEQA does not provide an exemption for the failure to apply to the local lead agency for legally required approvals that trigger the need for environmental clearance.

Non-compliance does not give an operator or the City a get-out-of-jail-free card. ZA approval under 13.01 and the terms of conditional use approvals are still required, and proper implementation of CEQA is still required.

LAMC 13.01 and all of the conditional use approvals for the site require compliance. These are legal requirements to protect public health and safety, not mere suggestions to ignore at whim.

Condition 77 of the 2000 approval provides that the "Zoning Administrator may impose additional conditions or require corrective measures to be taken if he finds, after actual observation or experience with drilling one or more of the wells in the district, that additional conditions are necessary." This is exactly the same language contained in LAMC 13.01.E.2.i, except for the code's better gender equality: "Zoning Administrator may impose additional

conditions or require corrective measures to be taken if he or she finds, after actual observation or experience with drilling one or more of the wells in the district, that additional conditions are necessary."

Finding No 6 of the 2000 approval states:

"Considering the solidly developed residential lots . . . northerly of the subject site and the close proximity of the densely developed residential section and adjacent built-up commercial area, ***all features of oil drilling, well maintenance and production must continue to be strictly controlled."***

The 1965 "mother case," which still applies to the processing half of the drill site, uses the same fundamental language: ***"all features of oil drilling and production must be strictly controlled."*** This language appears in all of the "mother cases" that established drill sites in the 1950s and 1960s, and it is a promise to the public that City officials have reiterated on other occasions, too.

Condition 78 of the 2000 approval set a procedure to hold a "Review of Conditions" two years after the completion of the project authorized by the 2000 approval. That review would include ZA contact with "all monitoring agencies," which included DOGGR (now CalGEM) and SCAQMD as well as City agencies. The review would "evaluate the neighborhood impacts of project operations and the efficacy of mitigation measures." Non-compliance with State law, State regulations, City law, and ZA assigned conditions would obviously be pertinent to an evaluation of the efficacy of mitigation measures. Condition 78 also reiterated the power of the ZA to "impose corrective conditions if warranted."

After the 1999 EIR and 2000 ZA approval were successfully challenged in court, the City entered into a Settlement Agreement in 2001 that revised some mitigation measures, added new mitigation measures, and also added new elements to the Mitigation Monitoring and Reporting Program. State law is clear that these changes needed to be written into an addendum to the 1999 EIR and into a new or supplemental ZA approval for the site, but Planning failed to take these steps despite clear knowledge that they were required by law.

Here, for example, is a discussion of the State law from a different EIR processed by the Los Angeles Department of City Planning:

> Section 21081.6 of the Public Resources Code and Section 15097 of the CEQA Guidelines require adoption of a Mitigation Monitoring or Reporting Program (MMRP) for all projects for which an Environmental Impact Report (EIR) or Mitigated Negative Declaration (MND) has been prepared. This requirement was originally mandated by Assembly Bill (AB) 3180 which was enacted on January 1, 1989 to ensure the implementation of all mitigation measures adopted through the California Environmental Quality Act (CEQA) process. Specifically, Section 21081.6 of the Public Resources Code states that "…the agency shall adopt a reporting or monitoring program for the changes made to the project or conditions of project approval, adopted in order to mitigate or avoid significant effects on the environment…[and that the program]…shall be designed to ensure compliance during project implementation."

The 2001 Settlement Agreement, to which the City was a principal party, made changes to the conditions of project approval that included both mitigation measures and mitigation monitoring and reporting requirements. The City failed to incorporate these into the final EIR and the ZA

approval, and then the City failed to implement at least one of the critical measures required by the Settlement Agreement – namely, the recurring Five Year Reviews of Conditions.

Item 4.b of the Settlement Agreement revised Condition 78 of the 2000 ZA approval by expanding the scope of the two-year post-project review to include the results of an air quality and "Risk Assessment" study that would examine all air emissions from the "facility," and not just the new project approved by the original 2000 ZA approval. ***And then item 4.b also required the holding of regular Five Year Reviews after the two-year post-project review, "pursuant to the procedure described in Condition No. 78 and the Zoning Administrator will conduct a Review of Conditions as prescribed in Condition No. 78."***

Please remember that Condition 78 mandated a check with "all monitoring agencies," an evaluation of the "efficacy of mitigation measures," and the "imposition of corrective conditions if warranted."

Today the OPNGAS (the Petroleum Administrator) is one of the "monitoring agencies," and checking with all the monitoring agencies is exactly the kind of comprehensive compliance inspection that Uduak Ntuk supervised at the Rancho Park Drill Site in 2017.

LAMC 13.01, CEQA, ZA Memo 133, the ZA conditional use approvals from 1965 and 2000 (and all those in between), and the Settlement Agreement all require compliance. There is no loophole for the City to say it has no responsibility and no authority to review major executed projects because they were not proposed. The 2019 Court of Appeals ruling upholding ZA Memo 133 clearly turned on the Court's detailed discussion of these duties and powers embedded in CEQA and the LAMC.

City law and State law is not a bright digital billboard lit up to encourage non-compliance.

What that means is that 1) the City needs to review the unapproved projects, 2) such a review must go through the CEQA process, 3) a Categorical Exemption is expressly forbidden by ZA Memo 133 and by the fact that mitigation measures always adhere to drilling approvals, 4) ergo, at least an Initial Study and an MND need to be produced before this case can go to hearing.

If the City tries to say, "but this is just a Review of Compliance, not a review of any projects," then that is proof that the City is pretending not to see violations (by the City as well as the site operators) that have been in open broad daylight, and proven beyond the shadow of a doubt. This would make a mockery of City and State law, and far from ending the case would only make it worse.

There is no escape from the need to review these projects properly. So why not start now?

Yours

Michael Salman

ZA-1989-17683-PA2: Review of West Pico Drill Site

Michael Salman <salman@history.ucla.edu> Thu, Jun 11, 2020 at 5:42 PM
To: Estineh Mailian <estineh.mailian@lacity.org>
Cc: rae@md-advocate.net, Rabbi Yonah Bookstein <rabbiyonah@gmail.com>, krystalnavar@soronc.org, Edber Macedo <edber.macedo@lacity.org>, Vanessa Soto <vanessa.soto@lacity.org>, Dylan Sittig <dylan.sittig@lacity.org>

Dear Ms. Mailian,

Thank you for your email response of June 8.

I have taken a couple of days before replying because I have had several telephone conferences with PCEC this week, following on an initial long conversation with PCEC VP Phil Brown last week.

Your description of the general process in and after the public hearing is standard, except of course for the circumstances of the pandemic that require any hearing now to be conducted remotely.

I was glad to hear from you that Planning is arranging a site visit. As you know, I strongly recommend that the Petroleum Administrator (or their designated staff representative) be included in the site visit. They are the City's resident subject matter expert, with expertise about oil operations that is different from and wider than the specialized fire code related expertise of LAFD inspectors. LADBS has not had specialists in this subject area for a very long time, and being able to recognize different pieces of equipment, proper configurations, and proper operating condition is critical to checking compliance with City rules and ZA conditions.

The Petroleum Administrator is also tasked by the Administrative Code (19.48.i) to "coordinate all matters respecting or concerning the exploration for, or production of, Petroleum within the City," so the Petroleum Administrator is at the center of inter-agency coordination.

As you also know, I have been pleading to please have the Petroleum Administrator conduct an inspection before the Review of Compliance goes to hearing so that the full scope of the Review can be estimated so as to enable proper implementation of CEQA.

Yesterday I received a copy of the Notice of Public Hearing for the Review of Compliance, and was startled to see that a Categorical Exemption to environmental review has been proposed. I must respond to that. It is expressly in conflict with ZA Memo 133, which sets Planning's own procedures for handling CEQA in oil cases.

You have seen the indisputable evidence that new wells were drilled in 2005-06 and 2010, without application to the ZA, without review by the ZA, without CEQA clearance, and without ZA approval. Likewise, at least one well was re-drilled in 2004, similarly without application or approval. A full review of CalGEM records may indicate more such projects.

The Planning Department's own "Chronology of Cases" (copy attached) shows the last new well was approved in 1979. LAMC 12.25 sets a three year expiration date on discretionary approvals, and Condition 1 of the 1965 "mother case" applied LAMC 13.01.F.33 which sets a 90 day use it or lose it requirement to commence drilling.

LAMC 13.01.H and 13.01.I set clear requirements for discretionary approvals to drill or re-drill wells. ZA Memo 133 speaks to this issue, too.

Here is what ZA Memo 133 says on page 6 about CEQA process for new wells, redrilled wells, deepened wells, and wells converted between producer and injector (AKA class A and class B):

> An application to drill, re-drill, deepen, or convert a well is not eligible for a categorical exemption and shall require an Initial Study or an EIR as described in section V.A.2. All

ZA Memo 133 lays out the environmental review procedure for such well projects on pages 7-8:

> For any project that does not qualify for a categorical exemption, including any project to drill, redrill, or convert a well, an Initial Study must be completed.
>
> The Initial Study must be prepared by an environmental consultant with the qualifications and experience required in this Memorandum. The Zoning Administrator may require the applicant to provide any additional documents, information or technical studies or reports necessary to complete the environmental review of the project, including requiring the applicant to hire an independent contractor to prepare or peer review technical studies or reports. The Initial Study shall comply with Section 15063 of the CEQA Guidelines and be prepared using Appendix G to the CEQA Guidelines and any City issued procedures or guidelines.

If an ND or MND is issued, the Zoning Administrator shall publish a Notice of Intent to Adopt an ND or MND pursuant to CEQA Guidelines Section 15073, prepare the ND or MND findings (and the Mitigation Monitoring Program for a MND) and process the application pursuant to Section IV. The Public Hearing notice sent in section V.B. will include a statement that the City has published a Notice of Intent to Adopt an ND or MND and include a link to the City's website where the Notice of Intent is published. The Notice of Intent to Adopt an ND or MND shall be published on the City's website in English and Spanish.

An Initial Study by a qualified environmental consultant is clearly required, and of course must be publicly accessible.

Since drilling and redrilling are always mitigated by conditions, an ND cannot be appropriate. Because consideration of potential new or modified conditions is at play for new projects (new wells, redrilling of wells, and the microturbines) that were never part of the project studied in the 1999 EIR, an MND is necessary. And an MND is necessary to consider revised conditions in response to the other episodes of non-compliance at the drill site.

The Public Hearing notice needs to have a link to the Notice of Intent to adopt the appropriate clearance document, and that clearance document should be reviewable by all parties before the case goes to hearing.

CEQA requires that environmental information needs to be provided to the public, both for the opportunity to comment on the environmental review and also to enable informed discussion of the underlying case. If it is not provided until after the hearing, that hinders public participation.

I have had several extended discussions now with PCEC about the permitting and approval history of the Controlled Drill Site and the well drilling history. Our discussions have included a deep dive into the documents, including the CalGEM document record, the record of ZA approvals from 1965 to the present, and LAMC 13.01.

I cannot speak for PCEC and must underscore that I am only speaking for myself, Richard Weiner, and Dr. Rae Drazin. I can say that I believe PCEC and I have looked at a common set of facts and a common set of documents.

In this Review of Compliance, there is already definitive evidence that wells have been drilled and others have been redrilled without the application, reviews, and approvals required by LAMC 13.01 and CEQA. Therefore this Review must address those instances of non-compliance (and any others). A Review of well drilling in 2020 has procedures to follow set out in ZA Memo 133, but those procedures are not being followed.

ZA Memo 133 was promulgated in 2016 in settlement of a lawsuit over the City's pattern and practice of implementing CEQA improperly in oil cases, especially by granting Categorical Exemptions when and where they were clearly inappropriate and contradicted by the setting of conditions to mitigate environmental impact. The City remained entangled in a costly appeal for three years after the settlement, which ended in 2019 with the Court of Appeals sustaining the legitimacy of ZA Memo 133.

Why would the City turn around, one year after the 2019 Court of Appeals ruling, to contravene ZA Memo 133 in a case already replete with City failures to follow CEQA properly dating back to the failure to complete the 1999 EIR with an addendum after the 2001 Settlement? What is the outcome and the message if Planning ignores its knowledge that there are unreviewed and unapproved drilling projects that have been completed at the site? Pretending that Planning does not know that the drilling projects and microturbines are there does not make the issue go away, but makes the problems bigger. Why not take the straightest and clearest path to resolve problems, fix errors, and properly implement CEQA in the most economical way?

This is a case that I believe can be resolved by consensus or near consensus, but going so far outside the bounds of proper procedure would be a major setback.

Please reconsider the path Planning is taking on this case.

Yours

Michael Salman

-------- Forwarded Message --------
Subject:ZA-1989-17683-PA2: Review of West Pico Drill Site
Date: Mon, 8 Jun 2020 11:28:50 -0700
From: Estineh Mailian <estineh.mailian@lacity.org>
To:salman@history.ucla.edu, rae@md-advocate.net, Rabbi Yonah Bookstein <rabbiyonah@gmail.com>, krystalnavar@soronc.org
CC: Edber Macedo <edber.macedo@lacity.org>, Vanessa Soto <vanessa.soto@lacity.org>, Dylan Sittig <dylan.sittig@lacity.org>
[Quoted text hidden]
[Quoted text hidden]

2 attachments

Chronology of Zoning Cases - highlighted.pdf
276K

ZA Memo133 on Handling of Oil Cases.pdf
586K

CHRONOLOGY
OCCIDENTAL PETROLEUM
BEVERLY HILLS OIL FIELD
PICO DRILL SITE
9165 WEST PICO BOULEVARD

ZA Case No.	Date	Purpose
17683	August 17, 1965	Controlled drill site U-131 - 70 acres/3 exploratory oil wells/ enclosed structure resembling high rise buildings/one well only. C2 zoned lots between Doheny and Oakhurst.
17683	October 1, 1965	Plans approved for landscaping wells, etc.
17683	October 7, 1965	Plans approved for derrick structure.
17683	October 15, 1965	Plans approved for equipment and control buildings.
17683	March 10, 1966	Authority granted for drilling of remaining two exploratory wells as permitted on August 17, 1965.
18200	May 27, 1966	Controlled drill site - U-132 (93 acres)/two exploratory wells and three production wells.
18201	June 10, 1966	Surface operations/drilling of 11 production wells - U-131/one well for every five acres (i.e., 14 wells permitted).
18200	August 18, 1966	Authority granted for two production wells as permitted on May 27, 1966.
18200	August 26, 1966	Correction letter/August 18, 1966/ three production wells permitted not two.
18471	October 31, 1966	Controlled drill site - U-133 - 92 acres/two exploratory wells and three production wells.
18484	November 3, 1966	Surface operations/drilling of 13 production wells - U-132 (see ZA 18200).

18623	January 17, 1967	Controlled drill site - U-150 (149 acres)/seven production wells.
17683	April 20, 1967	Well cellar expansion for 22 wells/plans approved for two parallel rows.
17683	May 16, 1967	Modification of Condition No. 5 - wells to be located at least 50 feet from Doheny Drive curb line/derrick no closer than 20 feet from Doheny Drive property line.
18893	July 28, 1967	Expansion of drill site to three adjacent C2 zoned lots to west - drill site now located between Doheny and Cardiff.
18191	August 14, 1967	Authorized three subsurface production wells on 103 acre site in Beverly Hills.
19189	March 14, 1968	One additional production well/ Beverly Hills - see ZA 18191.
19279	April 4, 1968	One additional production well - Beverly Hills - see ZA 18191 and ZA 19189.
19278	April 5, 1968	22 production wells - U-150 - see ZA 18623.
19279	April 23, 1968	Correction letter - corrected to reference ZA 18191.
19320	May 13, 1968	Two additional production wells/ Beverly Hills - see ZA 18191, ZA 19189 and ZA 19279.
17683	March 4, 1969	Plan approval for new well cellar for 20 water injection wells/expansion of well cellar for 49 wells (see ZA 17683 for 22 wells) - 69 wells existing??
20015	October 28, 1969	One additional production well - Beverly Hills - see ZA 18191, ZA 19189, ZA 19279 and ZA 19320.
17683	December 21, 1970	Conversion of 20 water injection wells to production wells (see plan approval dated March 4, 1969).

20529	May 6, 1971	One additional injection wells - Beverly Hills/one additional production well - see ZA 18191, ZA 19189, ZA 19279, ZA 19320 and ZA 20015.
20637	August 19, 1971	On e additional oil well - Beverly Hills (13 total).
20679	October 8, 1971	Five additional wells - U-131/two additional wells U-132 (see ZA 17683 and ZA 18200). Reduce 29 wells to 22 wells - U-150 (see ZA 18623 and ZA 19278).
20677	October 12, 1971	Five injection wells - U-131.
20678	October 15, 1971	Two injection wells - U-132.
20869	March 13, 1972	Additional oil well - Beverly Hills and use of well for injection purposes.
17683 19278 20677	May 14, 1973	Oil well permit/Fire Department
20677	August 14, 1973	Oil well permit/Fire Department
17683	August 27, 1973	Modification of Condition No. 16 to retain drilling structure for 5 years to December 31, 1978.
20815	January 11, 1972	One additional production well - U-131.
20842	February 18, 1972	One additional production well - Beverly Hills.
20989	July 11, 1972	One additional production well - U-131.
21209	May 29, 1973	One additional production well - Beverly Hills.
17683	February 22, 1979	Drilling permit/Fire Department
CUZ 79-102	May 10, 1979	Temporary core hole - U-131.
ZV 79-137-0	June 29, 1979	One additional production well - Beverly Hills.
17683	January 5, 1984	Retention oil derrick to December 31, 1986.

17683	June 14, 1984	Approval of plot plans for relocation of seven flow lines.
17683	June 19, 1984	Inspection of site; no violation of conditions.
17683	June 9, 1988	City Attorney letter requests investigation of complaints.
17683	June 2, 1988	Building and Safety letter citing potential violations.
17683	June 28, 1988	Building and Safety letter - Mrs. Elizabeth Mortoner - violations.
17683	July 20, 1988	Councilman Zev Yaroslavsky requests investigation of violation.
17683	July 28, 1988	Letter to Councilman Yaroslavsky - confirms investigation.
17683	August 10, 1988	Letter from Building and Safety - Clarification of status of "Portable Derricks".
17683	August 25, 1988	Letter to Building and Safety - "Portable" or "Temporary" Derricks not controlled.
17683	September 19, 1988	Councilman Yarosalvsky and City Attorney request further investigation of complaints - Answer prepared dated October 14, 1988.
17683	January 6, 1989	Further inquiry from Councilman Yaroslavsky.
17683	March 17, 1989	Formal request from Councilman Yaroslavsky for hearing and consideration of new conditions of methods and operation.
17683	July 6, 1989	Public hearing set for July 6, 1989; deficient public hearing notice; rescheduled.
17683	August 10, 1989	Public hearing held - decision with new conditions issued on September 12, 1989.

17683 BZA 4121	December 9, 1989	Appeal hearing before Board of Zoning Appeals cancelled at request of City Attorney.
17683 BZA 4121	January 2, 1990	Board of Zoning Appeals hearing - Deleted Condition No. 5 - requirement for enclosing structure.
17683 BZA 4121	March 2, 1990	Board of Zoning Appeals report issued.

CPC 89-0395 May 10, 1993 One Year Extension of Time for Ordinance No. 165,888 (CW-188) granted to June 13, 1994 (Third Extension of Time)

17683 BZA 4121 April 8, 1993 All interests in Pico Dist. Site Transferred from OXY USA Inc, To Breit Burn Energy Corporation

17683 January 25, 1994 Earthquake Energy filed Failure to Commence Operations by Truck/Rail Crude Transport & Duration (6 months) Hours of Operation

17683 March 24, 1994 Yates Corday requests control of Hours and number of Truck per 24 hour period - Correction Letter issued.

95-0153 8/23/95

BZA 5158 4/3/96

ZA 17683 PAD

BZA No. 2000-1697

CF 00-1842

MOD. of Cond #8 of BZA 4121 (DAYS of OPERATION)

OVERRULED 95-0153 PAD Approved Remodel of Site ("modernization project") BZA sustained; made modifications; City Council certified EIR

OFFICE OF ZONING ADMINISTRATION

MEMORANDUM

ZA MEMORANDUM NO. 133

September 19, 2016

TO: Office of Zoning Administration
Development Services Centers
Department of Building and Safety
Department of Public Works – Bureau of Engineering
Los Angeles Fire Department
Los Angeles Department of Water and Power

FROM: Linn K. Wyatt
Chief Zoning Administrator

SUBJECT: **APPLICATION AND PROCESSING REQUIREMENTS, INCLUDING CEQA REVIEW, FOR OIL AND GAS APPROVALS PURSUANT TO LOS ANGELES MUNICIPAL CODE SECTION 13.01-H.**

This Memorandum supersedes ZA Memorandum No. 94, dated December 12, 1994, and ZA Memorandum No. 94A, dated March 24, 2000.

This Memorandum is intended to establish a comprehensive set of procedures and policies for the acceptance and processing of applications for oil drilling approvals pursuant to Los Angeles Municipal Code (LAMC) Section 13.01-H and to establish City guidelines for the California Environmental Quality Act (CEQA) review of Section 13.01-H oil drilling applications.

I. Background

The LAMC requires a formal application and a filing fee in conjunction with a request for a determination of conditions for the conduct of oil drilling pursuant to LAMC Section 13.01-H. Other than the requirement for an application and payment of a filing fee, the LAMC contains no express procedural requirements for the determination of conditions under Section 13.01-H for an original approval or for a modification or clarification to a previously approved determination of conditions.

Z.A. Memoranda Nos. 94 and 94A

Historically, as described in ZA Memoranda Nos. 94 and 94A, applicants were permitted to apply for modifications to the original conditions for oil drilling approvals through the use of a more limited review process (similar to a plan approval under LAMC Section 12.24-L and M).

The use of the process outlined in Memoranda Nos. 94 and 94A is no longer permitted for any Section 13.01-H application, including those submitted as a determination of conditions, modification of condition, request for clarification, or related approval. All applicants seeking an approval under Section 13.01-H must follow the application procedures outlined in this Memorandum. All applications seeking any approval under Section 13.01-H will be processed by the City, including the Office of the Zoning Administrator, pursuant to this Memorandum.

Existing Approvals with Modification Procedures

In addition to the above historical process, there are existing active approvals which include conditions establishing a process for subsequent modifications or condition review. An example of one condition reads substantially as follows:

> *Drilling operations for the first X wells identified in the grant clause of the instant determination shall be completed within 36 months from the effective date of this determination. The drilling for the following X wells as hereby authorized shall be subject to a review of plans by the Zoning Administrator, without a public hearing, for the purpose of updating the record with the well identification and path.*

Another condition reads substantially as follows:

> *Review of Conditions. Two years following completion of construction… the applicant shall submit a Plan Approval application for reviewing the effectiveness of these conditions. … The applicant shall submit a 500-foot radius map with accompanying labels for owners and occupants. The Zoning Administrator may set the matter for public hearing if warranted.*

Both of these conditions include processes that are inconsistent with the processes established in this Memorandum. The first condition is inconsistent because it allows for modifications without a public hearing. The second condition is inconsistent because it allows the Zoning Administrator to not set a public hearing for a Plan Approval and implies the notice radius is 500 feet.

To the extent that any existing condition or grant in an existing approval gives the Zoning Administrator discretion in the process to be followed for a modification or condition review, the procedures in this Memorandum shall be followed, in accordance with the findings in Section II and the purpose statements in Section III.

To the extent that any existing condition or grant in an existing approval mandates a procedure that is inconsistent with this Memorandum, the Zoning Administrator shall consider whether a Plan Approval process shall be initiated by the City to revise any conditions to protect the public health, safety and welfare, including any condition establishing a process inconsistent with the purpose of this Memorandum. On the other hand, if an existing condition or provision is not modified through a Plan Approval, then the process outlined in the existing approval shall be followed.

Nothing in this Memorandum is intended to expand the authority the City has to initiate a Plan Approval.

II. Findings

In issuing this Memorandum, the Zoning Administrator makes the following findings:

A. In adopting the California Environmental Quality Act[1], the Legislature declared:

> It is the intent of the Legislature that all agencies of the state government which regulate activities of private individuals, corporations, and public agencies which are found to affect the quality of the environment, shall regulate such activities so that major consideration is given to preventing environmental damage, while providing a decent home and satisfying living environment for every Californian. (Public Resources Code Section 21000(g).

B. The CEQA Guidelines provide that CEQA's basic goal of protecting the environment has two purposes:

(1) avoiding, reducing, or preventing environmental damage where possible by requiring alternatives or mitigation measures; and

(2) providing information to decision-makers and the public concerning the environmental effects of proposed and approved actions. (CEQA guidelines 15002(a).)

C. One oft-repeated purpose of the CEQA Guidelines is to provide for public participation, including as set forth in Section 15201:

> Public participation is an essential part of the CEQA process. Each public agency should include provisions in its CEQA procedure for wide public involvement, formal and informal, consistent with its existing activities and procedures, in order to receive and evaluate public reactions to environmental issue related to the agency's activities. Such procedure should include, wherever possible,

[1] Public Resources Code, Sections 21000, *et seq*.

making environmental information available in electronic format on the Internet, on the web site maintained and utilized by the public agency.

D. Although CEQA does not require formal hearings at any state of the environmental review process, section 15202 provides that:

...

(b) If an agency provides a public hearing on its decision to carry out or approve a project, the agency should include environmental review as one of the subjects for the hearing.

(c) A public hearing on the environmental impact of a project should usually be held when the lead agency determines it would facilitate the purposes and goals of CEQA to do so. The hearing may be held in conjunction with and as part of normal planning activities.

...

(f) A public agency may include, in its implementing procedures, procedures for the conducting of public hearings pursuant to this section. The procedures may adopt existing notice and hearing requirements of the public agency for regularly conducted legislative, planning, and other activities.

E. Applications for oil and gas projects under LAMC Section 13.01-H have the potential to create unique risks and hazards to have the potential for significant and immediate impacts on the health, safety, and welfare of the residents in and around the project site through increased noise, odor, dust, traffic, and other disturbances, as well as the potential to significantly impact the City's air, water, soil, biological quality, geology, water, stormwater and wastewater infrastructure, transportation, emergency response plans and other aesthetic values and community resources.

F. People living and working within the land use and environmental impact range of oil and gas operations and activities have a substantial interest in participating in a public hearing on 13.01-H approvals.

G. Section 13.01-H provides authority for the Zoning Administrator to condition, approve or deny a Section 13.01-H application under the City's police powers to protect public health, safety and welfare and to issue and implement reasonable procedures to process Section 13.01-H applications consistent with the requirements for due process.

III. Purpose and Intent of Memorandum

This Memorandum is issued with the following intent:

- Ensure that the City complies with all legal requirements of CEQA in approving Section 13.01-H projects;
- Provide all parties that may be impacted by a project subject to a Section 13.01-H application an opportunity to participate in a public hearing;
- Meet the intent of CEQA in the review and approval of CEQA findings and determinations, to provide adequate public participation;
- Ensure that staff has time to adequately consider and respond to, if necessary, evidence submitted on a Section 13.01-H application and its related environmental findings (including the CEQA Guideline Section 15300.2 exceptions) prior to the issuance of any decision;
- Provide decision-makers and City Staff, and the public with the information and data needed for adequate decision-making under CEQA and Section 13.01-H;
- Ensure that Section 13.01-H applications are processed efficiently;
- Ensure that applicants, staff, and the public can rely on a consistent practice in reviewing Section 13.01-H applications;
- Provide for transparent disclosure and participation process; and
- Ensure that the city's processing and approvals pursuant to 13.01-H will not result in adverse effects to public health, safety, and welfare

IV. Application Requirements

The original case number shall be used for the plan approval request. Before an application may be deemed complete, the applicant must submit:

1) A completed "Land Use Application For Oil & Gas Project Conditional Approval" (CP Form CP-7834) with all required attachments, as specified in the application and the Instructions (CP Form CP-7833.)
2) A completed Environmental Assessment Form for Oil and Gas Projects (EAF-O, CP-7832), with all required attachments.
3) The filing fee pursuant to LAMC Section 19.01.

V. Processing Section 13.01-H Applications

A. CEQA Review

The following review procedures are intended to provide guidelines to implement CEQA on all Section 13.01-H applications. Nothing in this Memorandum or the guidelines provided herein are intended to conflict with CEQA. To the extent that these guidelines are silent or ambiguous, the Zoning Administrator shall fall back on the requirements and intent of CEQA. To the extent that these guidelines impermissibly conflict with CEQA, the provisions of CEQA control. Nothing in these Guidelines is intended to conflict with the Permit Streamlining Act, Gov't Code Section Government Code § 65920 et seq.

1. Preliminary Review for Exemptions

No categorical exemption forms will be processed for consideration or issued at the Planning Department Development Services. The applicant shall submit a complete EAF-O form with their application, which shall be reviewed by the Zoning Administrator. The Zoning Administrator will conduct a preliminary review to determine whether the application qualifies for an exemption from environmental review pursuant to CEQA. The Zoning Administrator may require the applicant to provide additional supporting materials from the applicant to support the use of a categorical exemption.

An application to drill, re-drill, deepen, or convert a well is not eligible for a categorical exemption and shall require an Initial Study or an EIR as described in section V.A.2. All other projects may be reviewed to determine if the project is exempt under any applicable categorical exemption in CEQA Guidelines Section 15300-15333 or any City Guidelines (adopted pursuant to CEQA). If a project is determined not to fall into any categorical exemption based on the project description, an Initial Study shall be prepared pursuant to section V.A.2. If the project falls within a categorical exemption, the Zoning Administrator shall determine if, based upon the whole of the record, any exception to any exemption under CEQA Guidelines, Section 15300.2, applies to the project, including, but not limited to the following:

> Cumulative Impact. All exemptions for these classes are inapplicable when the cumulative impact of successive projects of the same type in the same place, over time is significant.
>
> Significant Effect. A categorical exemption shall not be used for an activity where there is a reasonable possibility that the activity will have a significant effect on the environment due to unusual circumstances.

If the project is determined to be categorically exempt (CE) and no exceptions apply, the Zoning Administrator shall do all of the following:

- Give the public hearing notice required in section V.B., including a notice of an intent to adopt a categorical exemption to all property owners and occupants within a 1,500-foot radius of the project site's outer boundary, and provide for a 35-day comment period on the project, prior to approval. The public hearing may be held during the comment period. The hearing notice (with the notice of intent to adopt a CE) must be provided in English and Spanish.

- If after the 35-day comment period, or any time prior to making a decision on the project, the Zoning Administrator determines that substantial evidence does not support the use of the exemption, including from the existence of an exception in Section 15300.2, the Zoning Administrator shall require an Initial Study to be prepared consistent with the procedures outlined herein.

- Alternatively, if the Zoning Administrator finds after the 35-day comment period, or any time prior to making a decision on the project, that additional information and analysis is required to determine if the categorical exemption is supported with substantial evidence, and the applicant desires the City to use a categorical exemption rather than a prepare an Initial Study, the Zoning Administrator may require the applicant to submit additional information or documents and/or technical studies or reports, including requiring the applicant to hire independent consultants to prepare any necessary technical studies or reports or peer review any prepared studies or reports. If after reviewing any additional documents, reports or studies, required by the Zoning Administrator, it is determined that a categorical exemption is not supported by substantial evidence, an Initial Study shall be prepared.

- If the use of the categorical exemption is supported by substantial evidence in the record at the time of the decision, the Zoning Administrator shall ensure the record contains a memorandum or narrative substantiating the use of the categorical exemption, including explaining how substantial evidence in the administrative record supports the use of the exemption, and that the Zoning Administrator considered whether any exception to an exemption under CEQA Guidelines Section 15300.2 is applicable, including providing where necessary an explanation or evidence to demonstrate that any comments submitted on the intent to adopt the Categorical Exemption do not provide substantial evidence that an exception applies or the exemption does not apply.

2. Initial Study Determination

For any project that does not qualify for a categorical exemption, including any project to drill, redrill, or convert a well, an Initial Study must be completed.

Nothing in this subsection is intended to require the preparation of an Initial Study, when a preliminary review of the project demonstrates an EIR is clearly required, pursuant to CEQA Guidelines Section 15060(d).

The Initial Study must be prepared by an environmental consultant with the qualifications and experience required in this Memorandum. The Zoning Administrator may require the applicant to provide any additional documents, information or technical studies or reports necessary to complete the environmental review of the project, including requiring the applicant to hire an independent contractor to prepare or peer review technical studies or reports. The Initial Study shall comply with Section 15063 of the CEQA Guidelines and be prepared using Appendix G to the CEQA Guidelines and any City issued procedures or guidelines.

If the Initial Study shows both of the following Health Impact Assessment Criteria apply, the Zoning Administrator shall also require a Health Impact Assessment (HIA), as defined in Subsection V.A.5., before preparing the environmental clearance for the project:

- one or more of the air or hazards impact thresholds on Appendix G identified as III(a), III(b), III(d), VIII(a),VIII(b), VIII(c),or VIII(g) are found to be "less than significant impact with mitigation"; and
- the project is within 1,500 feet of any sensitive receptors, as defined by SCAQMD.

After the Initial Study is completed (and the HIA, if necessary), the Zoning Administrator will determine whether the proposed environmental clearance for the proposed project is a Negative Declaration (ND) or a Mitigated Negative Declaration (MND) or whether an EIR is required pursuant to sections 15065 or 15064 of the CEQA Guidelines.

If the Initial Study demonstrates that all of the impact areas will have no impact or less than significant impact, the Zoning Administrator may prepare a ND. (Note: if the Health Impact Assessment Criteria apply, a ND could not be prepared because the Initial Study identified significant impact requiring mitigation.)

If the Initial Study (and the HIA, if required) demonstrates that the project will not result in a significant impact with mitigation imposed, the Zoning Administrator may prepare a MND.

If the Initial Study (and the HIA, if required) demonstrates that the project may result in a significant impact to the environment that cannot be mitigated to less than significant, the Zoning Administrator shall require the preparation of an EIR. In determining whether an EIR is required, the Zoning Administrator shall review and consider all of the following CEQA Guidelines, without limitation to any other applicable requirements of CEQA:

- 15064 (guidelines on determining significant impacts),
- 15064.4 (guidelines on determining greenhouse gas impacts),
- 15064.5 (guidelines on determining cultural and archaeological impacts), and
- 15065 (guidelines requiring consideration of Mandatory Findings of Significance, including subsection (a)(4): "The environmental effects of a project will cause substantial adverse effects on human beings, either directly or indirectly.")

If an ND or MND is issued, the Zoning Administrator shall publish a Notice of Intent to Adopt an ND or MND pursuant to CEQA Guidelines Section 15073, prepare the ND or MND findings (and the Mitigation Monitoring Program for a MND) and process the application pursuant to Section IV. The Public Hearing notice sent in section V.B. will include a statement that the City has published a Notice of Intent to Adopt an ND or MND and include a link to the City's website where the Notice of Intent is published. The Notice of Intent to Adopt an ND or MND shall be published on the City's website in English and Spanish.

If the Initial Study demonstrates the project requires an Environmental Impact Report (EIR), the Zoning Administrator shall follow the procedures in section V.A.3.

3. Environmental Impact Report

If an EIR is to be prepared on a project, in addition to any other requirements of CEQA, the City will require all of the following:

- Provide the Notice of Preparation to all property owners and occupants within a 1,500-foot radius of the project site's outer boundary; and
- Prepare a Health Impact Assessment, as defined in section V.A.5., if not already prepared, and provide a relevant summary of the Health Impact Assessment in the EIR where appropriate to inform the required analysis. The Health Impact Assessment shall be considered in any certification of the EIR and the approval, conditional approval, or denial of the Section 13.01-H application.

An environmental consultant with qualifications and experience provided in section V.A.4 must prepare the EIR. The EIR must be prepared and certified in compliance with CEQA, including but not limited, CEQA Guideline Sections 15080-15097, 15120-15155.

4. Environmental Consultant Qualifications

The City shall ensure that any environmental consultant that is preparing an Initial Study, MND, ND, or an EIR on a 13.01-H project has the following qualifications and experience:

- The Project Manager has at least seven (7) years' experience preparing CEQA documents.
- The Project Manager has prepared and/or reviewed at least five (5) EIRs for projects involving oil and gas drilling or production.
- The consultant or consultant team, including any subcontractors, have demonstrated training, knowledge, and experience in the following topic areas as they specifically relate to oil and gas projects: environmental health, public health, hazardous materials, air quality, GHG emissions, water quality, geology, noise, traffic, aesthetics, and risk and safety issues.
- In the case of EIRs or MNDs requiring Health Impact Assessments, the consultant team, including any subcontractors, has at least five (5) years' experience in preparing Health Impact Assessments. The consultant who prepares the HIA shall be familiar with accepted HIA process and content including, but not limited to, the "Minimum Elements and Practice Standards for Health Impact Assessment," Version 3.

The City shall ensure that all environmental consultants have copies of this Memorandum prior to preparation of any Initial Study, ND, MND or EIR.

5. Health Impact Assessment (HIA)

A HIA is defined as follows:

> A study of the project for the surrounding vicinity identifying pollution and population indicators, such as, but not limited to, those analyzed in the

California Communities Environmental Health Screening Tool; the number of people affected by the project; short term or permanent impacts caused by the project; likelihood that impacts will occur; and recommended mitigation measures.

Any HIA required under these procedures shall be used to inform whether an EIR is required and whether to approve, condition, or deny the application under Section 13.01-H.

B. Public Participation

The Zoning Administrator will hold a public hearing on all Section 13.01 applications prior to project approval.

Notice of this public hearing must be sent to all property owners and occupants within a 1,500-foot radius of the project site's outer boundary, in English and Spanish. For projects being approved with a CE, ND or MND, the Notice of Intent to Adopt a CE, ND or MND may be combined with the public hearing notice.

C. Final Determination

Notices of final decisions will be issued to the applicant, all residents abutting the project site, and all individuals who request such notice.

All Zoning Administrator Section 13.01-H Determinations may be appealed to the Area Planning Commission. The Area Planning Commission decision is final. All CEQA determinations by the Zoning Administrator or the Area Planning Commission are subject to appeal to the City Council pursuant to Public Resources Code Section 21151(c).

Nothing in this Memorandum is intended to limit the Zoning Administrator's express and inherent authority to administer LAMC Section 13.01-H.

LKW:lw

Dylan Sittig <dylan.sittig@lacity.org>

Fwd: ZA-1989-17683-PA2: Review of West Pico Drill Site, CEQA, & need for a Comprehensive Compliance Inspection

Estineh Mailian <estineh.mailian@lacity.org> Mon, Jun 8, 2020 at 10:33 PM
To: Dylan Sittig <dylan.sittig@lacity.org>
Cc: Vanessa Soto <vanessa.soto@lacity.org>, Edber Macedo <edber.macedo@lacity.org>, Theodore Irving <theodore.irving@lacity.org>

Dylan,

Please include this email to the case file.

Thank you,
Estineh

Estineh Mailian
Chief Zoning Administrator
Los Angeles City Planning
200 N. Spring St., Room 763
Los Angeles, CA 90012
Planning4LA.org
T (213) 978-1318 | D (213) 978-1313
E-NEWS

---------- Forwarded message ---------
From: **Rabbi Yonah Bookstein** <rabbiyonah@gmail.com>
Date: Wed, May 27, 2020 at 8:38 PM
Subject: Re: ZA-1989-17683-PA2: Review of West Pico Drill Site, CEQA, & need for a Comprehensive Compliance Inspection
To: Michael Salman <salman@history.ucla.edu>
Cc: Estineh Mailian <estineh.mailian@lacity.org>, Edber Macedo <edber.macedo@lacity.org>, Rae Drazin <rae@md-advocate.net>, Richard Weiner <rswatty@ca.rr.com>, paul.koretz@lacity.org <paul.koretz@lacity.org>, Joan Pelico <joan.pelico@lacity.org>, Andy Shrader <andy.shrader@lacity.org>, Martin Epstein <martinepstein@soronc.org>, Krystal Návar <krystalnavar@soronc.org>

Dear Chief Zoning Administrator Mailian,

I hope that you and your family are doing well under these challenging circumstances.

I am writing to let you know that our Pico Robertson Coalition on Health and Safety — a group of leading rabbis and community members in Pico Robertson — strongly share Professor Salman's concern and agree with the argument he made. Our safety depends upon an immediate and comprehensive inspection being conducted by the Petroleum Administrator, and **before the Review of Compliance is brought to a public hearing**. Only by doing the inspection first can a proper CEQA review be defined.
Our neighborhood should not have to live with more unnecessary risks from bypassing the protections of the State's CEQA law.

Thank you for your continuing attention to this case.

Peace and blessings,

Rabbi Yonah Bookstein
Pico Robertson Health and Safety Coalition

www.TEKIA.org

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Peace and blessings,

Rabbi Yonah Bookstein
Deanna and Allen Alevy Family Rabbi in Community Outreach
Pico Shul • Shabbat Tent • Center for Jewish Life & Learning • Cal Kosher

Support our work building a more welcoming, caring and united Jewish community.
You can also donate via PayPal or VENMO

PLEASE NOTE: This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient(s) is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your system. Thank you.
[Quoted text hidden]

Dylan Sittig <dylan.sittig@lacity.org>

Fwd: ZA-1989-17683-PA2: Review of West Pico Drill Site, CEQA, & need for a Comprehensive Compliance Inspection

Estineh Mailian <estineh.mailian@lacity.org> Mon, Jun 8, 2020 at 10:31 PM
To: Dylan Sittig <dylan.sittig@lacity.org>
Cc: Vanessa Soto <vanessa.soto@lacity.org>, Edber Macedo <edber.macedo@lacity.org>, Theodore Irving <theodore.irving@lacity.org>

Dylan,

Please include this email to the case file.

Thank you,
Estineh

Estineh Mailian
Chief Zoning Administrator
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E-NEWS

---------- Forwarded message ---------
From: **Rae Drazin** <rae@md-advocate.net>
Date: Tue, May 26, 2020 at 8:40 PM
Subject: Re: ZA-1989-17683-PA2: Review of West Pico Drill Site, CEQA, & need for a Comprehensive Compliance Inspection
To: estineh.mailian@lacity.org <estineh.mailian@lacity.org>
Cc: Edber Macedo <edber.macedo@lacity.org>, Dick Weiner <rswatty@ca.rr.com>, Rabbi Yonah Bookstein <rabbiyonah@gmail.com>, paul.koretz@lacity.org <paul.koretz@lacity.org>, Joan Pelico <joan.pelico@lacity.org>, Andy Shrader <andy.shrader@lacity.org>, Martin Epstein <martinepstein@soronc.org>, Krystal Návar <krystalnavar@soronc.org>, michael Salman <salman@history.ucla.edu>

Dear Chief Zoning Administrator Mailian

RE: ZA-1989-17683-PA2. Need for a comprehensive compliance inspection by the Petroleum Administrator before the West Pico Drill Site Review of Compliance goes to Public Hearing.

As you may recall from our correspondence on November 13, 2019, we are board members of Neighbors for a Safe Environment (NASE), which in 2001 entered into a binding Settlement Agreement with the operating oil company of the West Pico Drill Site, the City of Los Angeles, and the City Council. NASE continues to have standing as a party to that Settlement Agreement, and one of us, Dr. Drazin, also has standing as a party to the Settlement Agreement as an individual.

The Settlement Agreement was approved by vote of City Council on June 12, 2001. Mr. Feuer was the CD5 Council Member at the time and he voted to approve the Settlement Agreement. Indeed, Mr. Feuer introduced the motion to approve the Settlement Agreement. Mr. Feuer is today the City Attorney.

A copy of the Settlement Agreement, Council's vote to approve it, the underlying ZA determination of April 5, 2000 in ZA-1989-17683-PAD, and additional related documents can all be found here, filed in the Council Files record for CF 00-1842: http://clkrep.lacity.org/onlinedocs/2000/00-1842.PDF

We are writing to reiterate our November 13, 2019 request that the Department of City Planning please ensure that there is a comprehensive compliance inspection of the West Pico Drill Site completed by the Petroleum Administrator before the Review of Compliance case goes to Public Hearing.

We agree with Professor Salman's analysis of the critical need for a comprehensive compliance inspection as a predicate for implementing CEQA in this case. This is a matter of the greatest concern to us.

Very truly yours,

Dr. Rae E.. Drazin, President, and Richard S. Weiner, Secretary, NASE

> On May 25, 2020, at 5:47 PM, Michael Salman <salman@history.ucla.edu> wrote:
>
> [Quoted text hidden]
> <ZA-1989-17683-PA2 -- Michael Salman letter to Chief ZA on inpection & CEQA 5-25-20.pdf><West Pico Well 58 03726615_2019-04-17_DATA - drilled 2005-06.pdf><West Pico Well 59 03727133_2018-12-07_DATA - drilled 2010.pdf><Chronology of Zoning Cases - highlighted.pdf><Trust Overview_ Properties _ Pacific Coast Oil Trust Investor Center - 12 new wells since 2003 - highlighted.pdf>

Rae E. Drazin, Ph.D.
Patient Advocate
8549 Wilshire Blvd. #1100
Beverly Hills, CA 90211
310 968-0404
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Dylan Sittig <dylan.sittig@lacity.org>

Fwd: ZA-1989-17683-PA2: Review of West Pico Drill Site, CEQA, & need for a Comprehensive Compliance Inspection

Estineh Mailian <estineh.mailian@lacity.org> Mon, Jun 8, 2020 at 10:30 PM
To: Dylan Sittig <dylan.sittig@lacity.org>
Cc: Edber Macedo <edber.macedo@lacity.org>, Vanessa Soto <vanessa.soto@lacity.org>, Theodore Irving <theodore.irving@lacity.org>

Dylan,

Please include this email to the case file.

Thank you,
Estineh

Estineh Mailian
Chief Zoning Administrator
Los Angeles City Planning
200 N. Spring St., Room 763
Los Angeles, CA 90012
Planning4LA.org
T (213) 978-1318 | D (213) 978-1313
E-NEWS

---------- Forwarded message ---------
From: **Michael Salman** <salman@history.ucla.edu>
Date: Mon, May 25, 2020 at 5:47 PM
Subject: ZA-1989-17683-PA2: Review of West Pico Drill Site, CEQA, & need for a Comprehensive Compliance Inspection
To: <estineh.mailian@lacity.org>
Cc: Edber Macedo <edber.macedo@lacity.org>, Rae Drazin <rae@md-advocate.net>, Richard Weiner <rswatty@ca.rr.com>, Rabbi Yonah Bookstein <rabbiyonah@gmail.com>, paul.koretz@lacity.org <paul.koretz@lacity.org>, Joan Pelico <joan.pelico@lacity.org>, Andy Shrader <andy.shrader@lacity.org>, Martin Epstein <martinepstein@soronc.org>, Krystal Návar <krystalnavar@soronc.org>

Dear Chief ZA Mailian

Please see the attached letter (copy of text pasted below) and the accompanying attached documents, which concern the need for a comprehensive compliance inspection led by the Petroleum Administrator in order to perform an adequate environmental clearance under CEQA for the upcoming Review of Compliance and Conditions at the West Pico Drill Site in ZA-1989-17683-PA2.

Please feel free to contact me at any time.

Michael Salman

*

Dear Chief ZA Mailian,

I hope that you and all of the DCP staff are healthy, well, and staying safe in this difficult time.

I am writing to express grave concern about the process through which the upcoming Review of Compliance and Conditions at the West Pico Drill Site seems to be heading toward Public Hearing without first having the Petroleum Administrator conduct or lead a comprehensive compliance inspection of the drill site.

Moving the case forward to Public Hearing without first securing and making public a comprehensive compliance inspection report from the Petroleum Administrator would be a damaging mistake, for at least three major reasons:

1. Without a comprehensive compliance inspection by a professional subject matter expert, of the type and style led by former Petroleum Administrator Uduak Ntuk in March-April 2017 for the Rancho Park Drill Site, the ZA in this case would be flying blind into the Public Hearing without critical knowledge of compliance at the site. The public would also be deprived of this critical information.
2. If the Petroleum Administrator is consulted for a report later in the Review process, after the Public Hearing, that would raise due process issues for members of the public and for the site operator, neither of whom would have an opportunity to respond to what would likely be the most critical document in the review process.
3. **Last, the failure to conduct a professional and independent comprehensive compliance inspection before taking the case to Public Hearing would undermine the CEQA process in this case, because the scope of review for an Initial Study and/or an MND or EIR in this case (as required by ZA Memo 133) can only be set by first surveying the scope of compliance issues and mitigation measures that need to be reviewed in the CEQA process.**

As you may know, since November 2019 I have worked closely with Richard Weiner and Dr Rae Drazin of NASE, parties to the 2001 Settlement Agreement with the City and the site operator that modified mitigation measures from the 1999 EIR and 2000 ZA determination. I have also worked closely with Rabbi Yonah Bookstein since that time. The City's failure to conduct 5 Year Reviews of Compliance on an ongoing cycle as per the Settlement Agreement is a matter that I brought to their attention, and then presented to the SORO Neighborhood Council as their representative.

The office of the Chief ZA and the Director of Planning have already received requests from Mr. Weiner, Dr. Drazin, and the SORO NC that plead for the ZA or DCP to have the Petroleum Administrator conduct or lead a comprehensive compliance inspection before the ZA takes the Review of Compliance to Public Hearing.

The authority to direct the Petroleum Administrator to conduct such an inspection and produce a report is clearly established in the City Administrative Code, Section 19.48.a, which defines the very first of the Petroleum Administrator's prescribed "duties" as the duty "[t]o examine and render a report and recommendation concerning matters related directly or indirectly to the exploration for, or production of, Petroleum within the City of Los Angeles, which may be referred to the Board by any department, bureau or office of the City, and obtain requested technical advice."

I believe the correspondence you have received from Mr. Weiner, Dr. Drazin, and the SORO NC describes that legal basis and explains how due process and due diligence necessitates a comprehensive compliance inspection before this case goes to Public Hearing.

In this letter I will focus on the third major reason I listed above: The City's need to perform duties under CEQA and to consider mitigation measures through the CEQA process.

How can Planning do an Initial Study or any other subsequent draft analysis required by CEQA (e.g., an MND or an EIR) without knowing the scope of the project? The scope of the project for this review is a function of non-compliance and the need for new/modified conditions, which can only be fully determined if there is an inspection of the drill site conducted or led by the Petroleum Administrator.

It is important to distinguish between the 1999 EIR and the case today. They are not the same case and not about the same project, although they concern the same drill site. In fact, they are categorically different cases. Their scope is not the same.

What the 1999 EIR examined

- The 1999 EIR studied a project proposed by the applicant that was, primarily, a set of new mitigation measures to reduce environmental impacts that had been the cause of complaints for decades.
- The project reviewed in the 1999 EIR was comprised, primarily, of a proposal to install taller perimeter walls around the half of the Controlled Drill Site that is located at 9101 W Pico Blvd where the well heads are located, and installing a permanent sound-proofed electric derrick at that location that would eliminate the use of diesel engines in drilling and workover operations (which had always been prohibited since the 1965 "mother case" applied LAMC 13.01.F.43 as part of Condition #1, but were nonetheless used in non-compliance). The 1999 EIR studied the project that was proposed at that time, and the proposal included substantial description of that project.

What the 1999 EIR did NOT examine

- **The 1999 EIR did not examine half of the Controlled Drill Site.** The 1999 EIR did not look at the other half of the controlled drill site, located at 9151 W Pico Blvd, where oil and gas processing equipment and other supporting equipment is installed and operated. Both locations together make up the Controlled Drill Site as approved to open by the ZA in 1965 and expanded with the approval of the ZA 1967. But the proposed project reviewed in the 1999 EIR did not include any new construction at the processing half of the Controlled Drill Site.

- **The 1999 EIR did not examine new wells drilled in 2005-06 and 2010 without application to the ZA or CEQA clearance, nor did it examine the drilling of any new wells because none were proposed at that time.** The new wells drilled in 2005-06 and 2010, which were drilled illegally without application to the ZA (required by LAMC 13.01.H and LAMC 13.01.I) and thereby also without CEQA clearance.
    - **CalGEM records prove the wells were drilled.** See attached CalGEM records for West Pico Well #s 58 and 59, which include the DOGGR permit records and work history records for the drilling of those wells. These are the Well DATA files posted on CalGEM's Well Finder online system. The individual files are compiled in reverse chronological order, so the newest record is on top and the oldest on the bottom. Hence if you read the files from the bottom up you will see the origins of these wells that were drilled in 2005-06 and 2010: the applications for DOGGR permits to drill new wells, the DOGGR permits that were issued, and the work history reports on the actual drilling of the new wells.
    - **For both wells, the operator checked a box for DOGGR declaring that no CEQA documentation of any type was required by the local lead agency.** , That was false in 2005-06 and 2010 as well as false today. See page 41 of the pdf for Well 58 and page 56 of the pdf for Well 59 for these improper declarations.
    - **The ZA case file for the drill site proves there was never an application, ZA review, ZA approval, or CEQA clearance for these Wells.** See the attached Planning Department “Chronology of Zoning Cases” for the drill site, which indicates that the last new well application considered by the ZA was processed in 1979. I have reviewed the case file for ZA 17683 in City Records, which contains cases from 1965 to the present.
        - Please also note that the Planning Department “Chronology of Zoning Cases” indicates some, but not all, of the long history of compliance problems, nuisance, health and safety risks, and accidents at the drill site, which have been recurrent, decade by decade, since its opening.
    - **The operator claims in public presentation to shareholders that it has drilled 12 new wells since 2003.** See the attached public statement by PCEC’s offshoot, the Pacific Coast Royalty Trust, an SEC regulated entity that trades on the NYSE, claiming that 12 new wells have been drilled at the site since 2003 (I believe this is inaccurate, but it might imprecisely refer to several instances of re-drilling existing wells, which also required applications to the ZA for approval and CEQA clearance, as per LAMC 13.01.H and 13.01.I, and also were not part of the project proposal reviewed by the 1999 EIR).
- **The 1999 EIR did not examine the five 200 KW Microturbine electric generators (1 Megawatt total) installed in 2018, contrary to express prohibition by ZA-assigned conditions and without application to the ZA.** Microturbines were not part of the project proposal examined in the 1999 EIR. They have never been proposed to the ZA for review and for CEQA clearance. And they are expressly prohibited by Condition 49 of the 2000 ZA determination and Condition 1 of the 1965 Mother Case (which applied LAMC 13.01.F.43), which both prohibit electric generation for the Controlled Drill Site not only on the drill site but also in the much larger oil drilling district.
    - **LADBS and SCAQMD permit records prove the microtubines were installed.** I believe you already have access to these records, but can furnish them on request.
    - **The operator’s application for this review acknowledges that the microturbines were installed,** but argues they are not prohibited because the ZA determination in 2000 did not apply to the “production facility” half of the Controlled Drill Site**.** This claim overlooks the prohibition in Condition 1 of the 1965 “mother case” (cf LAMC 13.01.F.43) that still applies to the “production facility” half of the Controlled Drill Site, and it overlooks the prohibition against generating electricity anywhere in the Oil Drilling District to supply power to any part of the Controlled Drill Site which is mandated in both Condition 1 of the 1965 “mother case” and Condition 49 of the 2000 ZA determination.
    - **The installation of major new equipment has always required ZA approval, and the installation of equipment that is prohibited by ZA condition would obviously require a request to modify conditions – but no such application to the ZA was ever made.**

Errors in the final approval of the 1999 EIR that must be rectified now

- **Final changes to mitigation measures were not added to the EIR by addendum or supplement.** There was never an addendum or supplement to the 1999 EIR to incorporate changes in mitigation conditions imposed by the ZA in the 2000 determination and the City’s Settlement Agreement in 2001.
- **MMRP never completed.** The MMRP required by State law was thus never completed and at least one critical element of monitoring and reporting - the recurring 5 Year Reviews of Conditions and Compliance mandated by the Settlement Agreement - was never performed.

Developments since the 1999 EIR and 2000 ZA determination show that several of the critical mitigation measures assigned in that case have failed or proven to be inadequate and should be superseded by more effective measures that are available today

- **There is a known record of non-compliance with the Settlement Agreement and the 2000 ZA determination.** These include but are not limited to failure to hold 5 year reviews, failure to control odors (testified to by Council Member Koretz who said at the Council Committee meeting on October 15, 2019 that in the vicinity near the drill

site "You can smell the oil. You can taste the oil."), failure to monitor odors, LAFD violations in 2017 and 2018 for failure to clean up spilled or leaked petroleum, and so on.

- **The drilling of new wells and installation of prohibited microturbines, all without required ZA approval and CEQA clearance, constitutes egregious non-compliance with City code and the requirements of past ZA grants** - these unapproved and un-reviewed projects necessitate a review of the whole Controlled Drill Sites. The projects themselves need to be evaluated via the CEQA process. New conditions – especially annual compliance inspections - must be added to ensure compliance in the future, and the need for these new conditions must be evaluated within the CEQA process.
- **Since the 1999 EIR, commercially available permanent emissions monitoring equipment has become economical and proven effective** - thus there is a new and better mitigation measure available today to address odor and emission control. That needs to be considered and evaluated for the whole Controlled Drill Site via the CEQA process.
- **In the years before 1999, the City had lapsed into not appointing a Petroleum Administrator and had no expertise in-house to monitor compliance, but the Office of the Petroleum Administrator has been revived since 2016** - thus there is a new and better mitigation and mitigation monitoring & reporting measure available today, namely annual comprehensive compliance inspections conducted or led by the Petroleum Administrator. That needs to be evaluated for the whole Controlled Drill Site via the CEQA process.

Consequently, CEQA requires a fresh "hard look" at the adequacy of existing mitigation measures across the entire Controlled Drill Site (not just the half at play in the 1999 EIR and 2000 ZA determination) and the need for new mitigation measures, which need to be considered in light of today's science and technology and best practices (not those that existed at the time of the 1999 EIR).

CEQA also requires an environmental study of more than three new physical projects that were executed without ZA review or CEQA clearance, and were starkly beyond the scope of the 1999 EIR: 1) new well drilled in 2005-06, 2) new well drilled in 2010, 3) microturbines installed in 2018, and also, at least, 4) an as yet undetermined number of wells re-drilled since 2003 (at least one well has been re-drilled, which I know from reviewing CalGEM records for an initial sample of approximately 10% of the wells at the drill site).

What a CEQA clearance for this current case must examine, and how it differs from the 1999 EIR

- **This is a Review of Compliance, not a review of a proposed new project like the 1999 EIR.**
- **The initial study for the CEQA process, no less any environmental clearance studies and draft documents (MND or EIR), cannot be performed until Planning knows the scope of what must be studied or at least has some sense of the scope.**
- **The PA application does not and cannot define that scope.** The operator's application for this Review is obviously insufficient for launching an initial study under CEQA. The operator is not proposing a new project, but is being asked to testify to the site's history of compliance. Unlike a project proposal to build something new, that should not be the basis for identifying the scope of study under CEQA. For example, the operator's application does not even mention the wells that were drilled in 2005-06 and 2010, no less that the operator claims elsewhere that it has drilled 12 new wells at the site since 2003. The application is also grossly deficient in supplying information on how (or whether) operators have complied with ZA conditions for odor control, odor monitoring, and video and audio monitoring of the site. The application itself is another instance of non-compliance.
- **We already know from review of public documents that there is substantial and serious noncompliance on multiple counts.**
- **We don't know, and the ZA and Planning Department cannot know, what other violations might exist that would be visible only via an on-site professional inspection.** In his March-April 2017 inspection of the Rancho Park Drill Site, then Petroleum Administrator Uduak Ntuk uncovered more than a dozen problems of non-compliance with City code and ZA assigned conditions that could not have been identified without an on-site inspection - on top of the ten or so compliance problems and violations that were discovered before the inspection through review of public documents.
- **The subject of the current review is thus vastly and categorically different from the 1999 EIR. It concerns a new and different project – multiple projects, in fact - that requires a fresh "hard look" under CEQA.**
- **Planning cannot estimate the full scope of non-compliance – and thus cannot estimate the scope of what must assessed under CEQA - without a comprehensive compliance inspection.**

One additional point about how the ZA would be blinded if the ZA goes into a Public Hearing without first securing a Comprehensive Compliance Inspection.

When West Pico Well #58 was being drilled in 2005-06, the two-year post-construction Review of Compliance was on the ZA's desk. But the ZA did not know a well was being drilled at that very time. Why not? Because no general compliance inspections have ever been done by the City, and from the mid-1990s until 2016 the City failed to live up to its Administrative Code requirement to have a Petroleum Administrator.

Since 2016 the City has revived the office of the Petroleum Administrator, precisely because expertise is needed and because compliance cannot be monitored without it.

But the Office of the Petroleum Administrator does no good if it is not used by the Offices of the City that are given the power in Administrative Code 19.48.a to task the Petroleum Administrator with a direction to inspect and report on technical issues, such as compliance.

Without a Comprehensive Compliance Inspection that actually inspects the physical site as well as all of the permitting and approval records, it is impossible to see how the CEQA process could be handled correctly in this case, and it is impossible to see how the case could be brought to Public Hearing in a defensible way.

The City's recent past experiences with the AllenCo Drill Site, the Jefferson Drill Site ZA cases and subsequent lawsuit, the litigation that led to the promulgation of ZA Memo 133 on CEQA implementation, and the example and precedent set by former Petroleum Administrator Uduak Ntuk's March-April 2017 inspection of the Rancho Park Drill Site all point to the correct way forward in this case.

Rigorous implementation of CEQA and due diligence in processing cases are wise and necessary.

This case does not need to be rushed. Taking the time to process this case correctly will not prevent a project from going forward, nor will it impede operations at the drill site or hurt the economy, nor will rushing protect the public. Rushing definitely does not help the public in any way, shape, or form, especially during a pandemic.

Rushing is lose-lose. Rushing stands to entangle everyone in the awful and costly process of undoing compounded errors. Rushing stands to leave the public exposed to unnecessary risks from a drill site that has been a source of trouble for decades. Rushing stands to create irregularity rather than consistent regulation. Irregularity does no one any good.

Taking the time to process the case correctly is win-win, for all involved.

Please secure a Comprehensive Compliance Inspection of the West Pico Drill Site in order to implement the requirements of CEQA properly before taking the case to Public Hearing.

Yours

Michael Salman

cc Dr. Rae Drazin

Richard Weiner

Rabbi Yonah Bookstein

Edber Macedo, Assistant to the Chief ZA

Paul Koretz, CD5 Council Member

Joan Pelico, CD5 Chief of Staff

Andy Shrader, CD5 Director of Environmental Affairs

Martin Epstein, SORO NC President

Krystal Navar, Former SORO NC President

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5 attachments

ZA-1989-17683-PA2 -- Michael Salman letter to Chief ZA on inpection & CEQA 5-25-20.pdf
468K

West Pico Well 58 03726615_2019-04-17_DATA - drilled 2005-06.pdf
8162K

West Pico Well 59 03727133_2018-12-07_DATA - drilled 2010.pdf
7787K

Chronology of Zoning Cases - highlighted.pdf

276K

Trust Overview_ Properties _ Pacific Coast Oil Trust Investor Center - 12 new wells since 2003 - highlighted.pdf
241K

April 17, 2019

VIA EMAIL ONLY

Mr. Thomas McCollum, Agent
Pacific Coast Energy Company LP (B6127)
1555 Orcutt Hill Road
Orcutt, CA 93455
tmccollum@pceclp.com

Dear Mr. McCollum:

SAFETY SYSTEMS AND ENVIRONMENTAL LEASE INSPECTION, WEST PICO DRILL SITE, BEVERLY HILLS FIELD

On November 28 and 29, 2018, Division of Oil, Gas, and Geothermal Resources (DOGGR) engineers, Stacy Sor and Max Chavez-Segura, witnessed tests of the safety systems and conducted an environmental lease inspection of wells and facilities at Pacific Coast Energy Company LP, West Pico drill site in the Beverly Hills field.

Tested safety systems responded as designed. No violations were observed during the lease inspection.

If you have any questions, please contact Ellen Plaza Moser at (714) 816-6847 or ellen.moser@conservation.ca.gov.

Thank you for your cooperation.

Sincerely,

Digitally signed
by Suman Ghosh
Date: 2019.04.17
12:31:26 -07'00'

Suman Ghosh
Environmental and Facilities Unit Supervisor

Enclosure: Environmental Lease Inspection Data Sheets
West Pico Safety Systems Inspection Summary

cc: Los Angeles City Fire Dept. – lafdcupa@lacity.org
L.A. City Office of Petroleum & Natural Gas Admin. – uduak.ntuk@lacity.org
L.A. City Office of The City Attorney – Jessica.brown@lacity.org
Lease File

Lease Inspections

Operator: Pacific Coast Energy Company L **Active:** Y

Field: Beverly Hills

Lease Name: TW **Section:** 30 **Township:** 01S **Range:** 14W

Date	Well #	API #	Tbg#	Well Type	Latitude Longitude	Tubing Pressure (MASP)	Casing Pressure	Deficiencies										Notes
								Status	Well Sign	enclosures	Well Head	Guages	Cellar	Leak	Waste/Refuse	Maintenance	Operations Sump	Access	
11-28-18	1	037-20971	01	OG I ✓	34.05547333 -118.39020538														
Total Wells:	1																		

Operator: Pacific Coast Energy Company L **Active:** Y

Field: Beverly Hills

Lease Name: West Pico **Section:** 30 **Township:** 01S **Range:** 14W

Date	Well #	API #	Tbg#	Well Type	Latitude Longitude	Tubing Pressure (MASP)	Casing Pressure	Deficiencies										Notes
								Status	Well Sign	enclosures	Well Head	Guages	Cellar	Leak	Waste/Refuse	Maintenance	Operations Sump	Access	
11-28-18	1	037-00995		OG A ✓ HRP	34.055542225 -118.390531275														
	10	037-20073	01	OG A SI ESP	34.055556113 -118.390473526														Permit pending CTI
	11	037-20105	01	OG A SI	34.055557955 -118.390497815														
	12	037-20146		OG A ✓ ESP	34.055560289 -118.390521824														

Lease Inspections

Operator: Pacific Coast Energy Company L **Active:** Y

Field: Beverly Hills

Lease Name: West Pico **Section:** 30 **Township:** 01S **Range:** 14W

Date	Well #	API #	Tbg#	Well Type	Latitude Longitude	Tubing Pressure (MASP)	Casing Pressure	Deficiencies										Notes
								Status	Well Sign	enclosures	Well Head	Guages	Cellar	Leak	Waste/Refuse	Maintenance	Operations Sump	Access	
11-28-2018	13	037-20189		OG A SI	34.055556683 -118.390429486														Waiting on pump charge Down Thurs.
	14	037-20212		OG A ✓ HRP	34.055555181 -118.390361287														
	15	037-20252		OG A ✓ HRP	34.055538725 -118.39036386														
	16	037-20357	01	OG I ✓	34.055538387 -118.390349436														
	17	037-20382		OG A SI	34.055551737 -118.390344089														
	18	037-20434		OG A ✓ HRP	34.055537967 -118.390331307														
	19	037-20510		OG A ✓ HRP	34.055551766 -118.390333238														
	2	037-00996	01	OG A ✓ HRP	34.055541529 -118.390509445														
	20	037-20552		OG A HRP SI	34.055551635 -118.390317876														
	21	037-20554	01	OG A ✓ ESP	34.055537 -118.390312185														
	22	037-20822	01	OG I ✓	34.05555725 -118.39015198														
	24	037-20886		OG A ✓ HRP	34.055549455 -118.390252694														
	25	037-20895		OG A HRP SI	34.055541 -118.390163981														
	26	037-20926	01	WF A ✓	34.05553818 -118.3901825	610 741.28	Ø												7-25-18 calib. 142 BPD
	27	037-20950		OG I ✓	34.05555344 -118.39038086														

Lease Inspections

Operator: Pacific Coast Energy Company L **Active:** Y

Field: Beverly Hills

Lease Name: West Pico **Section:** 30 **Township:** 01S **Range:** 14W

Date	Well #	API #	Tbg#	Well Type	Latitude Longitude	Tubing Pressure (MASP)	Casing Pressure	Deficiencies										Notes
								Status	Well Sign	enclosures	Well Head	Guages	Cellar	Leak	Waste/Refuse	Maintenance	Operations Sump	Access	
11-28-18	28	037-21006		OG A ✓ HRP	34.05555234 -118.390233733														
	29	037-21019	01	WF A SI	34.055555976 -118.390167752		Ø												Lines disc.
	3	037-00997		OG A HRP - SI	34.055539913 -118.390482169														
	30	037-21035	01	WF A ✓	34.05553818 -118.39029694	993.648 910	Ø												7-25-18 calif. 535 BPD
	30	037-21035	02	WF A	34.05553818 -118.39029694	1124.374													Only injecting into Hauser zone (Miocene)
	31	037-21050		OG A ✓ ESP	34.055537822 -118.390228166														
	32	037-21061		OG A ✓ ESP	34.05553764 -118.390211316														
	33	037-21068		OG I ✓	34.055552993 -118.39018426														
	34	037-21087		OG A ✓ HRP	34.055552593 -118.390272471														
	35	037-21121		OG I ✓ SI	34.05553818 -118.39024353														
	36	037-21169		OG A ✓ HRP	34.055550079 -118.390300394														
	37	037-21188		OG A ✓ HRP	34.055555503 -118.390576276														
	38	037-21239		OG ✓ SI	34.055536378 -118.390281614														Was active - remove pu due to rig act.
	39	037-21273		OG A ✓ ESP	34.055553594 -118.390286262														
	4	037-00998		OG A ✓ HRP	34.055539217 -118.390460715														

Lease Inspections

SEA-1
API# 037-20908
Attached to Packard but physically @ Pico DS.

Operator: Pacific Coast Energy Company L **Active:** Y

Field: Beverly Hills

Lease Name: West Pico **Section:** 30 **Township:** 01S **Range:** 14W

Date	Well #	API #	Tbg#	Well Type	Latitude Longitude	Tubing Pressure (MASP)	Casing Pressure	Deficiencies										Notes
								Status	Well Sign	enclosures	Well Head	Guages	Cellar	Leak	Waste/Refuse	Maintenance	Operations Sump	Access	
11-28-18	40	037-21284		OG A ✓ ESP	34.05553836 -118.390194646														
	41	037-21324		OG A ✓ HRP	34.055540801 -118.39056403														
	42	037-21336	01	OG I ✓	34.055554076 -118.390590887														
	43	037-21392		OG A ✓ ESP	34.055553074 -118.390218915														
	44	037-21950	01	OG I ✓	34.055469896 -118.390313473														was dual completion as WF + gas injection
	45	037-21996		OG A SI HRP	34.055556825 -118.390549165														
	5	037-00999		OG A SI	34.055539401 -118.390387474														
	58	037-26615		OG A ✓	34.0554683 -118.3903975														
	59	037-27133		OG I ✓	34.05546951 -118.39041138														Hydraulic rod pump
	6	037-01051		OG A SI	34.055539588 -118.390413087														Rig on well
	7	037-00107		OG I ✓	34.05553818 -118.39043427														
	8	037-20013		OG A SI	34.055557389 -118.390402923														
	9	037-20040		OG I ✓	34.05555725 -118.39044952														
Total Wells:	46																		

Lease Inspections

Operator: Pacific Coast Energy Company L **Active:** Y

Field: Beverly Hills

Lease Name: JW **Section:** 30 **Township:** 01S **Range:** 14W

Date	Well #	API #	Tbg#	Well Type	Latitude Longitude	Tubing Pressure (MASP)	Casing Pressure	Deficiencies											Notes
								Status	Well Sign	enclosures	Well Head	Guages	Cellar	Leak	Waste/Refuse	Maintenance	Operations Sump	Access	
11-28-18	3	037-21113	01	OG I ✓	34.055472218 -118.390366181														
Total Wells:	1																		

Operator: Pacific Coast Energy Company L **Active:** Y

Field: Beverly Hills

Lease Name: KW **Section:** 30 **Township:** 01S **Range:** 14W

Date	Well #	API #	Tbg#	Well Type	Latitude Longitude	Tubing Pressure (MASP)	Casing Pressure	Deficiencies											Notes
								Status	Well Sign	enclosures	Well Head	Guages	Cellar	Leak	Waste/Refuse	Maintenance	Operations Sump	Access	
11-28-18	5	037-21133	01	OG I ✓	34.055473764 -118.390349105														
Total Wells:	1																		

Lease Inspections

9101
9151
-CO_2 suppression
Trigger manual system.

Operator: Pacific Coast Energy Company L **Active:** Y

Field: Beverly Hills

Lease Name: HW **Section:** 30 **Township:** 01S **Range:** 14W

Date	Well #	API #	Tbg#	Well Type	Latitude Longitude	Tubing Pressure (MASP)	Casing Pressure	Deficiencies											Notes
								Status	Well Sign	enclosures	Well Head	Guages	Cellar	Leak	Waste/Refuse	Maintenance	Operations Sump	Access	
11-28-18	10	037-21994	01	OG A SI ✓	34.055469939 -118.390391882														
Total Wells:	1																		

Operator: Pacific Coast Energy Company L **Active:** Y

Field: Beverly Hills

Lease Name: IW **Section:** 30 **Township:** 01S **Range:** 14W

Date	Well #	API #	Tbg#	Well Type	Latitude Longitude	Tubing Pressure (MASP)	Casing Pressure	Deficiencies											Notes
								Status	Well Sign	enclosures	Well Head	Guages	Cellar	Leak	Waste/Refuse	Maintenance	Operations Sump	Access	
11-28-18	6	037-21160		OG I ✓	34.055468746 -118.390379361														
Total Wells:	1																		

Lease Inspections

Operator: Pacific Coast Energy Company L **Active:** Y

Field: Beverly Hills

Lease Name: LW **Section:** 30 **Township:** 01S **Range:** 14W

Date	Well #	API #	Tbg#	Well Type	Latitude Longitude	Tubing Pressure (MASP)	Casing Pressure	Deficiencies										Notes
								Status	Well Sign	enclosures	Well Head	Guages	Cellar	Leak	Waste/Refuse	Maintenance	Operations Sump	Access	
11-28-18	11	037-21995		OG I ✓	34.055470731 -118.390328247														
Total Wells:	1																		

Operator: Pacific Coast Energy Company L **Active:** Y

Field: Beverly Hills

Lease Name: NW **Section:** 30 **Township:** 01S **Range:** 14W

Date	Well #	API #	Tbg#	Well Type	Latitude Longitude	Tubing Pressure (MASP)	Casing Pressure	Deficiencies										Notes
								Status	Well Sign	enclosures	Well Head	Guages	Cellar	Leak	Waste/Refuse	Maintenance	Operations Sump	Access	
11-28-18	4	037-21145	01	OG I ✓	34.055470709 -118.390297146														
Total Wells:	1																		

Lease Inspections

Operator: Pacific Coast Energy Company L **Active:** Y

Field: Beverly Hills

Lease Name: OW **Section:** 30 Township: 01S **Range:** 14W

Date	Well #	API #	Tbg#	Well Type	Latitude Longitude	Tubing Pressure (MASP)	Casing Pressure	Deficiencies											Notes
								Status	Well Sign	enclosures	Well Head	Guages	Cellar	Leak	Waste/Refuse	Maintenance	Operations Sump	Access	
11-28-18	8	037-21211	01	OG A SI	34.055472369 -118.390281185														Needs pumpcharge
Total Wells:	1																		

Operator: Pacific Coast Energy Company L **Active:** Y

Field: Beverly Hills

Lease Name: PW **Section:** 30 Township: 01S **Range:** 14W

Date	Well #	API #	Tbg#	Well Type	Latitude Longitude	Tubing Pressure (MASP)	Casing Pressure	Deficiencies											Notes
								Status	Well Sign	enclosures	Well Head	Guages	Cellar	Leak	Waste/Refuse	Maintenance	Operations Sump	Access	
11-28-18	9	037-21235	01	OG A ESP ✓	34.05547333 -118.39025879														
Total Wells:	1																		

Lease Inspections

#806 - conductor only

Operator: Pacific Coast Energy Company L **Active:** Y

Field: Beverly Hills

Lease Name: RW **Section:** 30 **Township:** 01S **Range:** 14W

Date	Well #	API #	Tbg#	Well Type	Latitude Longitude	Tubing Pressure (MASP)	Casing Pressure	Deficiencies											Notes
								Status	Well Sign	enclosures	Well Head	Guages	Cellar	Leak	Waste/Refuse	Maintenance	Operations Sump	Access	
11-28-18	2	037-21098	01	WF A ✓	34.05547714 -118.3902359	1109.215 940	Ø												3250 BPD
Total Wells:	1																		

Operator: Pacific Coast Energy Company L **Active:** Y

Field: Beverly Hills

Lease Name: SW **Section:** 30 **Township:** 01S **Range:** 14W

Date	Well #	API #	Tbg#	Well Type	Latitude Longitude	Tubing Pressure (MASP)	Casing Pressure	Deficiencies											Notes
								Status	Well Sign	enclosures	Well Head	Guages	Cellar	Leak	Waste/Refuse	Maintenance	Operations Sump	Access	
11-28-18	7	037-21181	01	WF A ✓	34.05547333 -118.39022064	1008.481 960	Ø												1470 BPD
Total Wells:	1																		

PACIFIC COAST ENERGY COMPANY
WEST PICO SAFETY'S

	CHECKED	COMMENTS
TEST # 1 HIGH LEVEL	✓	
TEST # 2 HIGH LEVEL	✓	
GROSS # 1 HIGH LEVEL	✓	
GROSS # 2 HIGH LEVEL	✓	
GROSS # 3 HIGH LEVEL	✓	
GROSS # 4 HIGH LEVEL	✓	
H. T. # 1 HIGH LEVEL	✓	
H. T. # 2 HIGH LEVEL	✓	
H. T. # 3 HIGH LEVEL	✓	
H. T. # 1 HIGH PRESSURE	✓	
H. T. # 2 HIGH PRESSURE	✓	
H. T. # 3 HIGH PRESSURE	✓	
LOWER CONTAINMENT HIGH LEVEL	✓	
UPPER CONTAINMENT HIGH LEVEL	✓	
OIL COINTAINMENT HIGH LEVEL	✓	
HIGH LEVEL CLARIFER TANK	✓	
HIGH LEVEL PRODUCTION TANK	✓	
HIGH LEVEL CLEAN UP TANK	✓	
HIGH LEVEL 320 TANK	✓	
HIGH PRESSURE SALES GAS LINE	150psi ✓	LOW PRESSURE @ 100 PSI ✓
HIGH PRESSURE OIL SHIPPING LINE	400psi ✓	
HIGH LEVEL LACT TANK (WEST)	✓	
LOW LEVEL LACT TANK (WEST)	✓	
HIGH LEVEL LACT TANK (EAST)	✓	
LOW LEVEL LACT TANK (EAST)	✓	
HIGH LEVEL VENT SCRUBBER	✓	
~~HIGH HIGH LEVEL LACT TANK (W)~~	✓	
~~HIGH HIGH LEVEL LACT TANK (E)~~	✓	

WITNESSED BY Vincent

DOG REPRESENTATIVE P. Stank Mgl Chavez

DATE 11/28/18

PACIFIC COAST ENERGY COMPANY
WEST PICO SAFETY'S

	CHECKED	COMMENTS
TEST # 1 HIGH LEVEL	✓	
TEST # 2 HIGH LEVEL	✓	
GROSS # 1 HIGH LEVEL	✓	
GROSS # 2 HIGH LEVEL	✓	
GROSS # 3 HIGH LEVEL	✓	
GROSS # 4 HIGH LEVEL	✓	
H. T. # 1 HIGH LEVEL	✓	
H. T. # 2 HIGH LEVEL	✓	
H. T. # 3 HIGH LEVEL	✓	
H. T. # 1 HIGH PRESSURE	✓	
H. T. # 2 HIGH PRESSURE	✓	
H. T. # 3 HIGH PRESSURE	✓	
LOWER CONTAINMENT HIGH LEVEL	✓	
UPPER CONTAINMENT HIGH LEVEL	✓	
OIL COINTAINMENT HIGH LEVEL	✓	
HIGH LEVEL CLARIFER TANK	✓	
HIGH LEVEL PRODUCTION TANK	✓	
HIGH LEVEL CLEAN UP TANK	✓	
HIGH LEVEL 320 TANK	✓	
HIGH PRESSURE SALES GAS LINE	✓	
HIGH PRESSURE OIL SHIPPING LINE	✓	
HIGH LEVEL LACT TANK (WEST)	✓	
LOW LEVEL LACT TANK (WEST)	✓	
HIGH LEVEL LACT TANK (EAST)	✓	
LOW LEVEL LACT TANK (EAST)	✓	
HIGH LEVEL VENT SCRUBBER	✓	

WITNESSED BY _____

DOG REPRESENTATIVE _____

DATE 11/27/16

	CHECKED	LOW	HIGH	COMMENTS
SOUTH CELLAR				
IW # 6	✓	✓	✓	A1 low alarm @ 25% >all sensors
KW # 5	✓	✓	✓	A2 High alarm @ 45% /
OW # 8	✓	✓	✓	
RW # 2	✓	✓	✓	
NORTH CELLAR				
WP # 22	✓	✓	✓	
WP # 36	✓	✓	✓	
WP # 42	✓	✓	✓	
WP # 1	✓	✓	✓	
WP # 15	✓	✓	✓	
COMPRESSOR BLDG				
COMPRESSOR # V/R	✓	✓	✓	
COMPRESSOR # 1	✓	✓	✓	
COMPRESSOR # 4	✓	✓	✓	
Gen.	✓	✓	✓	
ROOF				
PRV VALVE CLEAN UP TANK	✓	✓	✓	
PRV VALVE L.A.C.T. TANK	✓	✓	✓	
VENT STACK	✓	✓	✓	
PUMP ROOM				
WEST	✓	✓	✓	
CENTER	✓	✓	✓	
EAST	✓	✓	✓	
GAS PIPELINE				
ANNULUS	✓	✓	✓	
DRILLING				
METHANE GAS	✓	✓	✓	
H2S	✓	✓	N/A	

WITNESSED BY _____

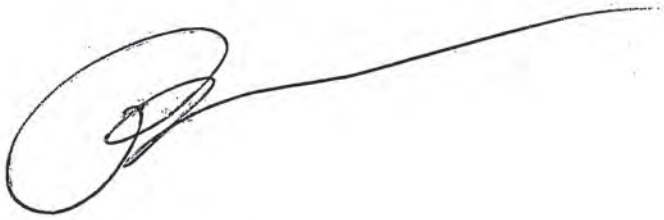
DOG REPRESENTATIVE _____ Max Chavez

DATE 11/29/18

Rig Detectors

Rig	LEL	✓
	LEL	✓
	H2S	✓
Mud Room	LEL	✓
	H2S	✓

11/29/18



Support Bay CO Detector

1	Mud Room Tunnel	✓
2	East	✓
3	E / Center	✓
4	W / Center	✓
5	West	✓

11/29/18

Martinez, Valerie

From:	Ung, June
Sent:	Thursday, January 19, 2012 9:18 AM
To:	Bynum, Carolyn; Hatfield, Sheila; Kirby Cook, Tina; Luft, Jennifer; Martinez, Valerie; Streiff, Jolene
Cc:	Blaine, Maria; Clark, Sue C.; Ellison, Burt; Glinzak, Mike; Kendall, Victoria; Macias, Addy
Subject:	Agent Database Update

Operator Name Change (same agent)

From BreitBurn Energy Company, LP to Pacific Coast Energy Company LP (B6127) – Districts 1 and 3

June Ung
Bond Administrator
Department of Conservation
Division of Oil, Gas, and Geothermal Resources
801 K Street, MS 20-20
Sacramento, CA 95814-3530
(916) 323-1788

Operator name change

Breitburn Energy Company, LP

To

Pacific Coast Energy Company L.P.

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

CHECK LIST – RECORDS RECEIVED AND WELL STATUS

Company:	**Breitburn Energy Co.**	Well: **"West Pico" 58**
API#:	**037-26615**	Sec. **30**, T. **1S**, R.**14W**. S. B. B. & M.
County:	**Los Angeles**	Field: **Beverly Hills**

RECORDS RECEIVED	DATE
Well Summary (Form OG100)	3/23/06
History (Form OG103)	
Core Record (Form OG101)	
Directional Survey	
Sidewall Samples	
Date final records received.	
Electric Logs:	3/23/06

Other:

Gamma Ray SP
Petro log

STATUS

Producing	☑	Drilling	☐
Abandoned	☐	Idle	☐
Reabandoned	☐	Other	☐

WELL TYPE

Oil	☑	Waterflood	☐
Gas	☐	Water Disposal	☐
Water Source	☐	Cyclic Steam	☐
Observation	☐	Steam Flood	☐
Exploratory	☐	Fire Flood	☐
Dry Hole	☐	Other	☐

EFFECTIVE DATE: 1/13/2006

REMARKS:

	ENGINEERS CHECK LIST	CLERICAL CHECK LIST
☑	Summary, History & Core Record (Dupl.)	Location change
☑	Electric Log	Elevation change
☑	Operator's Name	Form OGD121
☑	Signature	Form OGD150b (Release of Bond)
☑	Well Designation	Duplicate logs to archives
☑	Location	Notice of Records Due
☑	Elevation	EDP 3-26-07 um
☑	Notices	District Date Base
☑	"T" Reports	Final Letter (OG159)
☑	Casing Record	Update Center 3-26-07 um
☐	Plugs	
☐	Directional Survey	
☑	Production/Injection (FAP Codes: 0540310)	
☑	E Well on Prod., enter EDP	**FIELD CHECK LIST**
☐	Surface Inspection Required	Date Surface Inspection Completed:
☐	Surface inspection Waived (Island)	Other:
☐	Well site restoration deferred (common cellar)	
☐	Final Letter Required AB: ☐ REAB: ☐	
☐	Other:	

RECORDS NOT APPROVED	RECORDS APPROVED
(Reason:)	*(Signature)*
	RELEASE BOND
	Date Eligible
	(Use date last needed records received.)
	MAP AND MAP BOOK ● 117 EW 3/22/07

40

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

WELL SUMMARY REPORT

API NO. **037-26615**

Operator	Well				
BreitBurn Energy Company	**WP-58**				
Field	County	Sec.	T.	R.	B.&M.
Beverly Hills East	**Los Angeles**	**30**	**1S**	**14W**	**S.B.**

Location (Give surface location from property or section corner, street center line)
From the intersection of the center lines of Pico Blvd. & Oakhurst, 75' 9" North & 112' 6" East

Elevation of ground above sea level
171'

California Coordinates (if known): **Northing: 202,370.44', Easting: 1,882,022.08' (NAD27 Lambert Zone 5)**

Was the well directionally drilled? ☒ Yes ☐ No If yes, show coordinates at total depth. **124' South & 3648' East (See dir. survey)**

Commenced drilling (date)
12-14-05

Completed drilling (date)
1-10-06

Total depth: (1st hole) **8815'** (2nd) (3rd)

Depth measurements taken from top of:
☐ Derrick Floor ☐ Rotary Table ☒ Kelly Bushing

Which is **16'** feet above ground

Commenced production/injection (date)
1-13-06

Present effective depth **8746'**

Production mode: ☐ Flowing ☒ Pumping ☐ Gas lift

Junk
None

Name of production/injection zone(s)
Hauser

GEOLOGICAL MARKERS	DEPTH
Hauser H104	**6,895' MD**
Hauser H200	**7,079' MD**
Hauser H300	**7,590' MD**
Pi	**8,765' MD**

Formation and age at total depth
Miocene Hauser

Base of fresh water
600'

	Clean Oil (bbl per day)	API Gravity (clean oil)	Percent Water (including emulsion)	Gas (Mcf per day)	Tubing Pressure	Casing Pressure
Initial Production	375	17	56%	294	140 psi	450 psi
Production After 30 days	180		49%	213	90 psi	30 psi

CASING AND CEMENTING RECORD (Present Hole)

Size of Casing (API)	Top of Casing	Depth of Shoe	Weight of Casing	Grade and Type of Casing	New (N) or Used (U)	Size of Hole Drilled	Number of Sacks or Cubic Feet of Cement	Depth of Cementing (if through perforations)	Top(s) of Cement in Annulus
10-3/4"	Surf.	878'	40.5#	n/a	New	14-3/4"	506cf	n/a	Surf
7"	Surf.	8600'	26#	N-80	New	9-7/8"	1041cf	n/a	3540' (Theoretical)
5"	6798'	8747'	18#	L-80	New	6"	n/a	n/a	n/a

PERFORATED CASING (Size, top, bottom, perforated intervals, size and spacing of perforations, and method.)

5" liner slotted with 2"x0.030", 48R, 6"C slots 6863'-8699'.

Logs/surveys run? ☒ Yes ☐ No If yes, list type(s) and depth(s).
1-4-06 (8768'-6852'), Schlumberger Platform Express
12-20-05 to 1-6-06 (5000'-8815'), Petrolog mud log

In compliance with Sec. 3215, Division 3, of the *Public Resources Code*, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Name	Title	
Chris Williamson	**VP of Operations**	
Address	City/State	Zip Code
515 South Flower St. Suite 4800	**Los Angeles**	**90071**
Telephone Number	Signature	Date
213-225-5900	Chris Williamson	**3-18-2006**

OG100 (1/98/GSR/1M)
Printed on recycled paper.

SUBMIT IN DUPLICATE

RECEIVED
MAR 23 2006
DIVISION OF OIL, GAS
GEOTHERMAL RESOURC

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Breitburn Energy Company LLC Field East Beverly Hills County Los Angeles
Well WP58 Sec. 30 T. 1S R. 14W S.B. B.&M.
A.P.I. No. 037-26615 Name Chris Williamson (Person submitting report) Title Agent (President, Secretary, or Agent)
Date 3/18/2006 (Month, day, year)
Signature Chris Williamson
Address 515 S. Flower St., Suite 4800 Los Angeles, CA 90071 Telephone Number (213) 225-5900

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Casing:	10-3/4", 40.5# , stc 8rd casing cemented surface to 878'.
	7", 26#, N-80 csg from surface to 8600', cemented with 1041cf. Estimated TOC at 3540' (theoretical).
	5", 18#, L-80 Hydril 511 liner landed at 8747', top at 6798'. ECP at 8730'.
Plugs:	None
Perforations:	5" slotted w/2"x0.030",48R,6"C slots 6863'-8699'.
Junk:	None

Drill and Complete - WP-58

Date:	Operations:	Wt. / Vis / FL
Drilling Operations		
12/12/2005	Prepped to move rig to WP-58. Installed south cellar beams. Moved rig to WP-58. Tightened quill to 32K, and all clamps on quill. Cleared all tbg and rod equipment from rig floor and derrick. Serviced rig. Changed out guide sheave on hydraulic tugger line. Inspected and tighten bolts in mast.	
12/13/2005	PU BOPE and removed x-over flange. Installed hammer unions on new suction hoses. Tack welded collars on 1st 3 jts 10-3/4" csg. Cut and revamped grading above WP-58 to install and weld 20" riser. Welded on flow line. Installed suctions, and fill line. Installed new lines on super suckers. Cleaned south cellar. Continued inspecting and tightening bolts in derrick.	
12/14/2005	Welded on flow line, and fitted to flow line for choke. Welded shoe on 10-3/4" csg. Welded shaker frame and step. PU, MU 2jts 5" HWDP. Conditioned mud. Cleaned out conductor to 53'. MU 7" magnet on 2jts 5" HWDP. RIH w/ 7" magnet, made several runs, recovered 1/2 of 5gal bucket small pieces metal, 1-1/4" shackle, bolts & nuts. PU 12jts 5" HWDP from bay, stood back in derrick. PU, MU Sperry directional tools. Drilled 53'-58', unable to make hole. RIH w/7" magnet, made several runs, recovered 5gal bucket small pieces metal, 9" valve wheel, 6" API ring, bolts and nuts.	8.5 / 45 / n/a

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12/15/2005	Serviced EDM tower and lubricated rig. Made several runs w/7" magnet, recovered 5gal bucket full of metal. Ran 11-1/2" junk basket, no recovery. Ran used 12-1/4"bit w/junk sub, drilled 58'-68'. POH, recovered small pieces metal in junk sub. RIH w/14-3/4" H.O. w/6' extended BN. Opened to 14-3/4" 53'-60'. POH. Made several runs w/14" & 7" magnet, no metal, clean runs. POH, LD tools. PU BHA, drilled 9-7/8" hole 68'-78'. MU MWD tools, drilled 9-7/8" hole 78'-118'. RU sheaves to run Scientific gyro. Drilled and surveyed w/Scientific gyro 118'-653'. Circulated hole clean. POH to shoe. W/O mud bins.	8.5 / 39 / n/a
12/16/2005	W/O cutting bins. RIH w/9-7/8" bit and BHA to 653'. Drilled 653'-878'. Ran gyro to verify/coordinated direction. POH. RD gyro equipment. MU 14-3/4" bull nosed hole opener and RIH to 72'. Opened hole, circ hole clean. Wiped hole 878' to HO & RIH to 878'. Tight spot @350'. Circ hole clean. Trip, POH, break and LD HO. HSM & RU csg equipment. PU & RIH w/10-3/4" csg. Rig circ equipment & circ csg while RD csg equipment. W/O cementers.	9.5 / 35 / n/a
12/17/2005	HSM & RU cement equipment. Circ w/rig pump while RU. Test lines to 2500psi, pump 30bbls H2O & 18bbls mud clean. Mix and pump 66bbls (lead) cement @4.5bpm. Mix & pump 24bbls (tail) cement @4bpm, max pressure 350psi. NOTE: All lead cmt @12.5ppg & tail @14.5ppg. Cmt properties as per program, pumped 1bbl over theoretical. Did not bump plug (float would not hole) CIP @08:30, shut well in (cement to surface). RD cementers, W/O cmt. Loaded out csg equipment & cleaned cellar). Slacked off on csg. Removed cmt head, cut & removed conductor. Rough cut 10-3/4" csg & set out same. Installed wellhead & weld same. Tested weld to 3000psi (OK). Good, hard cmt around 10-3/4" csg. Set in & NU BOPE. Revamp flow line & kill line w/welder. Changed out pipe rams to 5" DP & function tested BOPE. Set test plug & tested blind rams and choke lines to 1000psi. Notified DOGGR & bled pressure & removed test plug. Made up BHA w/directional tools. NOTE: PU jars & new stab.	9.5 / 35 / n/a
12/18/2005	Tested BOPE (pipe & annular) to 1500psi. DOGGER witnessed & approved test. Continued MU BHA, scribe MWD & oriented mud mtr. PU jars & RIH w/HWDP, tag cmt @855' (did not see float). Installed rotating head rubber and lubricator. Clean out cmt to 865' (shoe), drilled out shoe. Drilled 9-7/8" hole 865'-1045'. Cleaned rubber from vac lines for cuttings (plugged). Cont dir drlg 1045'-1228'. Circ hole clean. RU & run gyro to correct surveys. Wipe hole 1228'-865'. RIH to 1228'. Cont dir drlg 1228'-1825'.	9.1 / 39 / n/a
12/19/2005	Dir drilled 1825'-2070'. Circ hole clean. Deviation survey surface to 2037'. Circ hole clean while RD gyro equipment. POH to shoe (865'). Repair rig (weld crack in cent line & repair hose to #1 pump). RIH to 1789', break circ and cont RIH to 2039'. Break circ & safety ream to 2070'. Dir drilled 2070'-2793' (survey every 60') NOTE: Some surveys still hot. Changed out grease fitting a& service swivel packing. Cont dir drlg 2793'-3545'.	9.3 / 41 / 5.6
12/20/2005	Dir drilled to 3608'. Circ clean. Wiper trip to shoe (tight 3355'-2039'). Circ @shoe. Ship 80bbls mud to storage. Serviced EDM tower. Trip in hole, stopped @1966'. Spot ream & circ to 3608'. Dir drilled 3608'-4238'. Wipe hole 4238'-3167' (tight hole to 3545'). RIH, spot reamed @3608' & 3648'. RIH to 4000'.	9.4 / 39 / 5.4
12/21/2005	Cont RIH to 4150'. Safety reamed & circ to 4238'. Dir drilled 4238'-4616'. Circ & cond mud for wiper trip. Wipe hole to 3000'. RIH (tight spot @3587'). Safety reamed and circ 4555'-4616'. Serviced EDM rig. Dir drilled 4616'-4933'. Circ & cond mud for wiper trip. Wipe hole 4933'-2010' (tight 4860'-4933'). Break circ & safety reamed 4875'-4933'. Started drilling.	9.3 / 38 / 5.2
12/22/2005	Dir drilled 4933'-4953'. Tripped (looking for DP wash out). Wash out @3608', jt #47. LD bad jt & RIH to 4953'. Dir drilled 4953'-5500'. Circ & cond for trip. POH (tight 4900'-4600'). Break out and LD MWD & dir tools, break bit. PU new MM & MU MWD & new BHA.	9.3 / 41 / 5.4
12/23/2005	Cont MU BHA. Scribe MM & MWD. RIH to shoe, test MWD. Serviced rig & repaired hydraulic leak on top drive. RIH to 4500' (break circ @2000', 3000', & spot reamed @3500'). Spot reamed 4500'-5500'. Circ bottoms up. Dir drilled 5500'-5937'. Circ & unplugged vac line for super sucker. Wiped hole 5937'-5400' (no problems). Dir drilled 5937'-6098'.	9.3 / 40 / 5.4
12/24/2005	Dir drilled 6098'-6410'. Cond mud & circ bottoms up. Wiped hole 5716'-6410' (tight spot 6350'-5900'). Circ out gas. Dir drilled 6410'-6696'. Circ bottoms up & cond mud. POH (back ream 6696'-6346').	9.4 / 37 / 5.2
12/25/2005	Cont POH to BHA. Serviced EDM tower & rig. POH & changed MM to 1.1 bend & changed stab to 9.5". RIH, fill pipe & break circ every 1500' (spot reamed when necessary). Reamed 6190'-6696'. Drilled tangent (maintained less than 2 degrees) 6696'-6888'. Circulate.	9.4 / 37 / 5.2
12/26/2005	POH to dir tools. LD all dir tools. MU NBHO, & C/O BHA as above. Trip in hole to shoe. Rig repairs, replaced motor on centrifuge. RIH w/ C/O assembly (fill pipe & break circ every 1000'). Circ bottoms up @3500' & 5500'. Reamed & C/O w/HO & stab 5500'-6886'. Circ & cond mud for csg. Trip out for csg.	9.5 / 39 / 5.2

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12/27/2005	POH & LD stab & HO. Removed wear bushing. HSM w/csg crew & RU csg equipment. PU & RIH w/7"26# csg as per program. Broke circ @865', 1500', & 2700'. Cont RIH w/csg (broke circ @ 3500', 4400', 5500'). Cont RIH w/csg to TD (6878'). NOTE: Jts 4,5,&6 from surface Baker locked. Break circ & reciprocated pipe @6878' (no fluid loss). Up wt 220k, down wt 130k. Circ & reciprocated pipe.	9.5 / 39 / 5.2
12/28/2005	Circ & reciprocated pipe while RU csg cementers. HSM. Csg stuck (full circ), work csg trying to free up (no success). Pulled 400K (string wt 178K). Tried to rotate w/rotary table. RU cementers (25' above rotary). Started cmt job. Mixed & pumped 10bbls H2O, pressure tested lines, pumped 36bbls mud clean flush, 10bbls H2O. Mixed & pumed 152bbls lead slurry, 40bbls tail slurry. Dropped plug & displaced cmt to float collar w/260bbls H2O. Bumped plug w/1600psi. Cont pressure to 2100psi, checked float (OK). CIP @1300hrs 12/27/05. NOTE: Full circ throughout job, no reciprocation). RD cementers, make rough cut on csg above rotary. Rig csg fill tool, long links, & elevators. Load out csg equipment. ND BOPE and PU wellhead (make rough cut on csg). Set BOPE down & secure. LD cut csg and ND and set out BOPE. Make final cut on csg & dress for tbg head. Install tbg head & test to 3000psi (good). Secure well. Serviced EDM tower & rig components. Prep to move rig and skid rig to north cellar. Removed south skid beam (prep to skid rig to east end of north cellar)	9.5 / 39 / 5.2
12/29/2005	Moved rig to WP16. RU & LD V-door ext. ND wellhead and install BOPE> RU to LD HWDP. RIH w/HWDP & jars. POH, LD same (38jts HWDP & jars). Removed rotating rubber & RIH w/71stds 5" DP (4486'). Land DP in wellhead on donut. ND & set out BOPE, secure well. PU V-door ext & prep for move. Skid rig down north cellar across from WP58. Install skid beams and move to south cellar. Prepare to skid rig to WP58	9.5 / 39 / 5.2
12/30/2005	RU ext beams for rig. Cleaned mud pits. Loaded out 5" HWDP. Unloaded 3-1/2" DP. Moved rig to WP58. RU V-door ext. NU BOPE. Removed studs from gate to clear and install riser. Finished installing BOPE. Changed pipe rams to 3-1/2". Cleaned pits and sand trap. Filled pits w/water, flushed out charge pump lines.	
12/31/2005	Unloaded 3-1/2" DP. Revamped kill line. Pumped out south cellar. Revamped & welded flowline. Unloaded 4-3/4" DC's & 3-1/2" HWDP. Tested BOPE, tested blind rams, csg, choke & check valve to 1000psi for 15mins, good. Measured 4-3/4" DC's. PU, stood back 30jts 3-1/2" HWDP. Rabbited in hole. PU, stood back 6jts 4-3/4" DC's. Rabbited in hole. Removed thread protectors on 3-1/2" DP. PU, RIH w/112jts 3-1/2" DP. Rabbited in hole. POH w/3-1/2" DP, stood back in derrick.	
1/1/2006	PU, RIH w/3-1/2" X95 DP. Rabbited in hole. Changed out drive sub on top drive. Cont PU, RIH w/148jts 3-1/2" X95 DP. Rabbited in hole. POH w/3-1/2" X95 DP. Notified DOGGR, Mel Saw waved BOPE test. Serviced top drive and EDM tower, lubricated rig. MU MWD tools. Tested tools & install rotating rubber. RIH, tagged cmt at 6737'. Cleaned out cmt, float collar at 6770', and shoe at 6852'.	8.4 / 36 / n/a
1/2/2006	Drilled out shoe at 6852'. Cleaned out to 6886'. Pulled to shoe W/O mud logger. Surveyed & dir drilled 6" hole 6886'-7250'. Circ & cond KCl/Clarizan fluid. Wiped hole, pulled 25/45K over to 7000', free to shoe. Surveyed & dir drilled 6" hole 7250'-7500'. Swivel packing leaking. Pulled to shoe. Replaced & repaired swivel packing, tested ok. RIH survey & dir drilled 6" hole 7500'-7531'.	8.4 / 35 / n/a
1/3/2006	Surveyed & dir drilled 6" hole 7531'-7866'. Circ & cond KCl/Clarizan fluid. Wiped hole, pulled 20/40K to 7000', free to shoe. RIH survey & dir drilled 6" hole 7866'-8126'. Circ & cond KCl/Clarizan fluid. Wiped hole, pulled 20/50K to 7000', free to shoe. RIH, surveyed & dir drilled 6" hole 8126'-8251'. Troubleshoot noise, check pumps, ok. Changed transducer on stand pipe. Surveyed & dir drilled 6" hole 8251'-8282'.	8.6 / 36 / n/a
1/4/2006	Surveyed & dir drilled 6" hole to 8314'. Wiped hole, pulled 30/60K to 7000', free to shoe. Serviced EDM tower, greased rack, lubed rig. RIH to 8314'. Surveyed & dir drilled 6" hole 8314'-8565'. Cond & circ bottoms up. Wiped hole, pulled 30/60K to 7000', free to shoe. Serviced EDM tower, greased rack, lubed rig. Broke out to replace saver sub, quill clamps would not fit. Sent in new saver sub to be turn down. MU new saver sub. RIH to 8565'. Surveyed & dir drilled 6" hole 8565'-8750'.	8.6 / 36 / n/a
1/5/2006	Surveyed & dir drilled 6" hole 8750'-8815' (TD). Lost 150bbls. Pulled to shoe, pulled 30/60K over. Built KCl/Clarizan volume. Circ, took 66bbls to get circ. RIH to 8785'. POH (pulled 30/60K to 7000', free to shoe). Serviced EDM tower, lubed rig. Cont POH. RU Schlumberger to run PEX logs. HSM w/Schlumberger and rig crew. Tested tools. RIH w/Schlumberger PEX tool pusher logs	8.6 / 38 / n/a
1/6/2006	RIH w/Schlumberger PEX tool pusher tools. Removed rotating rubber. RIH w/Schlumberger loggers. MU side entry sub. Pumped wire line down pipe, latched tools and tested. RIH w/Schlumberger, logged 8776'-6852'. POH, removed side entry sub. POH w/Schlumberger wireline, LD tools and sheaves. RD loggers. POH, LD Schlumberger PEX tool pusher log tools. MU, RIH w/6" BHA drill assembly.	8.6 / 35 / n/a

1/7/2006	RIH w/ 6" BHA drill assembly. Loaded out excess 3-1/2" DP. RIH w/6" BHA drill assembly to 8763'. POH w/ 6" BHA. Unload & measure 2-7/8" tbg and 5" L-80 Hydril 511 liner. LD 6" BHA. RU B&L Tongs. Serviced EDM tower. HSM w/B&L, Chancellor oil tool, Hydril, and rig crew. PU, RIH w/51jts 5" 18# L-80 Hydril 511 flush liner w/5" slotted packoff assy + 4-3/8"OD ECP on bottom of liner. PU, RIH w/2-7/8" Hydril 511 inner tbg string (61jts + 6" stinger on bottom). PU, MU Chancellor 5"x 7" Hydril liner hanger + 5"x 7" top packer. RIH w/5" liner on 3-1/2" DP. 5" Liner Detail : Round Nose Landing Collar 0.87 3.5 NU Box x 3 1/2" EU Pin 0.55 ECP Lower Mandrel 2.75 ECP Body 10' Element 12.85 ECP Upper Mandrel 0.59 3.5 EU Box x 3.5 NU Box 0.48 3 1/2" EU 8rd Lifter 4.18 3.5 NU Pin x 3.5 EU 8rd Pin 14.65 5" LTC Box x 3.5 NU Box 2.75 Dual Packoff Slotted Sub 5.10 5" LTC Coupling 0.65 5" Hyd 511 Box x 5" LTC Pin 1.75 51 Jts 5" 18# L-80 Hyd 511 Flush Liner 1836.71 5" x 7" Hyd Liner Hanger 7.00 5" x 7" Liner Top Packer 2.50 Setting Sleeve 6.70 TBR 10.00 Running Tool 7.65 3 1/2" D/P	8.6 / 35 / n/a
1/8/2006	RIH w/5" 18# L-80 Hydril 511 flush liner on 3-1/2" DP to 7464'. 5" liner stuck at 7464'. Worked liner at 258k, pulled free. POH w/5" liner to hanger. LD top pkr and hanger. RU tbg equipment. POH w/2-7/8" Hydril 511 inner tbg string + 6' stinger. Loaded out hanger and top pkr. RU B&L equipment to LD liner. POH, LD 5" liner. RD B&L Tong Service. MU reamer BHA. RIH on 3-1/2" DP to 4400'. NOTE: 5" liner, equipment, & 2-7/8" Hydril 511 inner tbg string ckecked good. Found crack in 6' 2-7/8" tbg stinger on collar end.	8.6 / 35 / n/a
1/9/2006	RIH w/ 6" reamer BHA to 6705'. Changed out joy stick on drilling console. Changed oil filter on top drive lube pump. RIH to 6852'. Reamed 6852'-8763'. Down wt 117k, up wt 150k-175k. Back reamed 8763'-6852'. Up wt 134k. POH to 6800'. Cond hole fluid, circ bottoms up. POH, LD 6" BN/HO & 5-7/8" roller reamer. Serviced EDM tower, greased rack, lubed rig. NOTE: Lost total 317bbls (86bbls to fill hole, 231bbls reaming).	8.5 / 36 / n/a
1/10/2006	RU B&L equipment to run 5" liner. HSM w/Chancellor Oil Tool, B&L Tongs, Hydril, and rig crew. PU, MU Chancellor ECP and circulating shoe assembly. PU, RIH s/51jts 5" 18# L-80 Hydril 511 flush liner. RD B&L equipment. RU tbg equipment. RIH w/2-7/8" Hydril 511 inner tbg string (61jts + 2-3/8" stinger). PU, MU Chancellor 5"x7" Hydril liner hanger + 5"x7" top packer. RIH w/5" liner on 3-1/2" DP. Set bottom BN shoe at 8746', center ECP at 8736', TLH at 6798'. Filled hole, drop 1-3/4" dart, set ECP at 1000psi. Pressured to 1800psi, set hanger. Changed well over to lease water. Stung into packoff sub, spot breaker behind liner. Set top packer w/50k. Pressure csg to 500psi for 5mins, good. POH, LD running tools. POH, LD 2-7/8" Hydril 511 tbg. LD 3-1/2" HWDP and 4-3/4" DC's. NOTE: slots = 0.030", 48R, 6" S, 2"C. NOTE: Breaker = 3, 50lb buckets of bleach mixed w/100bbls of lease water (~2 lbs/bbl of breaker)	8.3 / n/a / n/a
1/11/2006	LD 3-1/2" HWDP & 4-3/4" DC's. Loaded out excess 5" liner (shipped to Sawtelle), 4-3/4" DC's, 3-1/2" HWDP, 2-7/8" Hydril tbg; unload 2-7/8" 8rd tbg. Removed thread protectors & RU tbg tools. PU, RIH w/2-7/8", 6.5#, J55, 8rd EUE tbg (rabbit tbg). Unload Schlumberger ESP pump & cable. Cont PU tbg & tag liner @6798'. POH to 1950'. Shut well in for night.	8.3 / n/a / n/a

1/12/2006	POH w/2-7/8" 8rd J-55 tbg. HSM w/Schlumberger and rig crew. Serviced EDM tower & lubed rig. RU spooler. PU, MU Schlumberger ESP assembly. RU sheaves and ESP cable. RIH w/Schlumberger ESP on 208jts 2-7/8" 8rd J-55 Tbg. RD sheaves. Installed lower mandrel connector to cable. Landed bottom of Schlumberger ESP assembly at 6772'. Shut in and secured well. Schlumberger ESP BHA: Sensor 1.85 Motor 22.05 Btm Protector 8.12 Top Protector 8.51 Intake 2.25 AGH 6.34 Btm Pump 17.60 Top Pump 18.07 208 Jts 2 7/8" 8rd J-55 Tbg 6663.43 Donut 1.00 KB 23.00 ESP setting depth 6772.22 NOTE : Total used 15 flat guards, 93 SS flat bands, 352 preformed bands.	8.3 / n/a / n/a
1/13/2006	W/O welder. RD choke, kill & suction lines. Prep to move rig. Cut flowline & ND BOPE. Tear down rig V-door ext. Release rig @1500 hours.	8.3 / n/a / n/a

Bit Record

Bit No.	Size	Mfr.	Type	Ser. No.	Jet Sizes	Depth In	Depth Out	Footage	Hrs.	Ft/Hr.
1	9-7/8"	Hughes	MXC-1	5085173	1-10;3-15's	58'	878'	820'	10	82
HO#1	14-3/4"	Smith	9-7/8" x 14-3/4"			58'	878'	820'	5.5	149
RR#1	9-7/8"	Hughes	MXC-1	5085173	1-12;3-16's	878'	5500'	4622'	60	77
2	9-7/8"	Hughes	MXC-1		4-14's	5500'	6888'	1388'	33	42
3	6"	Hughes	MXC-1	5084680	3-16's	6888'	8815'	1929'	46.5	42

Production Data

	Clean oil per day	Gravity Clean Oil	Per Cent Water	Gas (mcf/day)	Tubing Pressure	Casing Pressure
Initial Production	**375 bopd**	**17 deg API**	**56%**	**294 mcfd**	**140 psi**	**450 psi**
Production after 30 days	**180 bopd**		**49%**	**213 mcfd**	**90 psi**	**30 psi**

BREITBURN ENERGY COMPANY LP

Directional Survey Calculations

Minimum Curvature Method

Well: West Pico WP-58

MD	Inc	Azimuth	TVD	Subsea	Latitude	Northings	Departure	Eastings	Vert Sec	Dogleg
0.00	0.00	0.00	0.00	187.00	0.00	202370.44	0.00	1882022.08	0.00	0.00
25.00	0.19	209.20	25.00	162.00	-0.04	202370.40	-0.02	1882022.06	-0.02	0.76
50.00	0.37	209.20	50.00	137.00	-0.14	202370.30	-0.08	1882022.00	-0.08	0.72
75.00	0.56	209.20	75.00	112.00	-0.32	202370.12	-0.18	1882021.90	-0.17	0.76
100.00	0.74	209.20	100.00	87.00	-0.57	202369.87	-0.32	1882021.76	-0.30	0.72
125.00	0.66	246.02	125.00	62.00	-0.77	202369.67	-0.53	1882021.55	-0.50	1.79
150.00	0.71	207.98	149.99	37.01	-0.96	202369.48	-0.73	1882021.35	-0.70	1.80
175.00	0.91	206.25	174.99	12.01	-1.28	202369.16	-0.89	1882021.19	-0.85	0.81
200.00	1.51	203.08	199.99	-12.99	-1.76	202368.68	-1.11	1882020.97	-1.05	2.41
225.00	2.18	211.13	224.97	-37.97	-2.47	202367.97	-1.48	1882020.60	-1.40	2.87
250.00	2.92	218.13	249.95	-62.95	-3.38	202367.06	-2.12	1882019.96	-2.01	3.21
275.00	3.61	224.69	274.91	-87.91	-4.44	202366.00	-3.07	1882019.01	-2.92	3.13
300.00	4.50	226.77	299.84	-112.84	-5.67	202364.77	-4.34	1882017.74	-4.15	3.61
325.00	5.88	229.28	324.74	-137.74	-7.18	202363.26	-6.02	1882016.06	-5.79	5.59
350.00	6.49	231.76	349.60	-162.60	-8.89	202361.55	-8.10	1882013.98	-7.81	2.66
375.00	6.82	234.81	374.43	-187.43	-10.61	202359.83	-10.43	1882011.65	-10.07	1.93
400.00	7.07	240.97	399.24	-212.24	-12.22	202358.22	-12.98	1882009.10	-12.58	3.14
425.00	7.10	244.98	424.05	-237.05	-13.62	202356.82	-15.73	1882006.35	-15.28	1.98
450.00	7.06	246.98	448.86	-261.86	-14.87	202355.57	-18.54	1882003.54	-18.05	1.00
475.00	6.81	250.69	473.68	-286.68	-15.96	202354.48	-21.36	1882000.72	-20.82	2.05
500.00	6.50	253.95	498.51	-311.51	-16.84	202353.60	-24.12	1881997.96	-23.55	1.95
525.00	6.15	258.70	523.36	-336.36	-17.50	202352.94	-26.79	1881995.29	-26.20	2.52
550.00	6.06	262.17	548.22	-361.22	-17.94	202352.50	-29.41	1881992.67	-28.81	1.52
575.00	6.01	265.07	573.08	-386.08	-18.23	202352.21	-32.02	1881990.06	-31.41	1.24
600.00	6.16	267.22	597.94	-410.94	-18.41	202352.03	-34.66	1881987.42	-34.05	1.09
625.00	6.06	269.41	622.80	-435.80	-18.49	202351.95	-37.32	1881984.76	-36.70	1.01
650.00	6.16	270.80	647.65	-460.65	-18.48	202351.96	-39.98	1881982.10	-39.36	0.71
675.00	6.21	271.51	672.51	-485.51	-18.43	202352.01	-42.68	1881979.40	-42.05	0.37
700.00	6.53	271.63	697.35	-510.35	-18.35	202352.09	-45.45	1881976.63	-44.83	1.28
725.00	7.18	276.02	722.18	-535.18	-18.15	202352.29	-48.42	1881973.66	-47.81	3.34
750.00	7.88	277.96	746.96	-559.96	-17.75	202352.69	-51.68	1881970.40	-51.07	2.98
775.00	8.32	279.37	771.71	-584.71	-17.22	202353.22	-55.16	1881966.92	-54.57	1.93
800.00	8.56	280.73	796.44	-609.44	-16.57	202353.87	-58.77	1881963.31	-58.20	1.25
825.00	8.73	281.05	821.16	-634.16	-15.86	202354.58	-62.46	1881959.62	-61.91	0.71
850.00	8.84	282.55	845.86	-658.86	-15.08	202355.36	-66.20	1881955.88	-65.67	1.02
875.00	8.82	285.45	870.57	-683.57	-14.16	202356.28	-69.92	1881952.16	-69.42	1.78
900.00	8.50	288.92	895.28	-708.28	-13.05	202357.39	-73.51	1881948.57	-73.05	2.45
925.00	7.97	293.92	920.02	-733.02	-11.74	202358.70	-76.85	1881945.23	-76.42	3.56
950.00	7.27	299.76	944.80	-757.80	-10.26	202360.18	-79.80	1881942.28	-79.43	4.17
975.00	6.71	305.49	969.62	-782.62	-8.62	202361.82	-82.37	1881939.71	-82.04	3.57
1000.00	6.16	311.30	994.46	-807.46	-6.89	202363.55	-84.56	1881937.52	-84.29	3.41
1025.00	5.44	317.59	1019.33	-832.33	-5.13	202365.31	-86.37	1881935.71	-86.16	3.84
1050.00	4.82	326.87	1044.23	-857.23	-3.37	202367.07	-87.74	1881934.34	-87.59	4.14

1075.00	4.44	336.26	1069.15	-882.15	-1.61	202368.83	-88.71	1881933.37	-88.61	3.39
1100.00	4.32	349.83	1094.08	-907.08	0.20	202370.64	-89.26	1881932.82	-89.22	4.16
1125.00	4.47	1.57	1119.01	-932.01	2.10	202372.54	-89.40	1881932.68	-89.42	3.64
1150.00	4.83	9.23	1143.92	-956.92	4.12	202374.56	-89.21	1881932.87	-89.29	2.87
1175.00	5.40	16.37	1168.82	-981.82	6.28	202376.72	-88.71	1881933.37	-88.87	3.41
1200.00	6.11	21.38	1193.70	-1006.70	8.65	202379.09	-87.89	1881934.19	-88.13	3.48
1225.00	6.52	22.67	1218.55	-1031.55	11.20	202381.64	-86.86	1881935.22	-87.18	1.74
1250.00	6.76	23.34	1243.38	-1056.38	13.86	202384.30	-85.73	1881936.35	-86.14	1.01
1275.00	6.96	24.46	1268.20	-1081.20	16.59	202387.03	-84.52	1881937.56	-85.01	0.96
1300.00	7.28	26.21	1293.01	-1106.01	19.39	202389.83	-83.19	1881938.89	-83.78	1.55
1325.00	7.56	29.30	1317.80	-1130.80	22.25	202392.69	-81.69	1881940.39	-82.37	1.95
1350.00	7.93	32.31	1342.57	-1155.57	25.14	202395.58	-79.96	1881942.12	-80.74	2.20
1375.00	8.27	35.80	1367.32	-1180.32	28.05	202398.49	-77.99	1881944.09	-78.86	2.39
1400.00	8.83	40.99	1392.04	-1205.04	30.96	202401.40	-75.68	1881946.40	-76.65	3.81
1425.00	9.45	44.64	1416.73	-1229.73	33.87	202404.31	-72.98	1881949.10	-74.04	3.39
1450.00	10.38	46.91	1441.35	-1254.35	36.87	202407.31	-69.89	1881952.19	-71.05	4.03
1475.00	11.38	47.92	1465.90	-1278.90	40.06	202410.50	-66.41	1881955.67	-67.69	4.07
1500.00	12.34	48.80	1490.37	-1303.37	43.47	202413.91	-62.57	1881959.51	-63.96	3.91
1525.00	12.95	49.87	1514.76	-1327.76	47.04	202417.48	-58.42	1881963.66	-59.92	2.61
1550.00	13.92	50.60	1539.08	-1352.08	50.75	202421.19	-53.96	1881968.12	-55.58	3.94
1575.00	14.79	51.20	1563.30	-1376.30	54.66	202425.10	-49.15	1881972.93	-50.90	3.53
1600.00	15.41	51.48	1587.43	-1400.43	58.73	202429.17	-44.06	1881978.02	-45.95	2.50
1625.00	15.79	52.00	1611.51	-1424.51	62.89	202433.33	-38.78	1881983.30	-40.81	1.62
1650.00	15.95	52.73	1635.56	-1448.56	67.07	202437.51	-33.37	1881988.71	-35.54	1.02
1675.00	15.96	54.25	1659.60	-1472.60	71.15	202441.59	-27.84	1881994.24	-30.15	1.67
1700.00	15.82	56.92	1683.64	-1496.64	75.02	202445.46	-22.20	1881999.88	-24.63	2.98
1725.00	15.68	59.51	1707.70	-1520.70	78.60	202449.04	-16.43	1882005.65	-18.99	2.87
1750.00	15.41	62.23	1731.79	-1544.79	81.86	202452.30	-10.58	1882011.50	-13.25	3.11
1775.00	15.28	65.30	1755.90	-1568.90	84.78	202455.22	-4.65	1882017.43	-7.41	3.29
1800.00	15.37	68.23	1780.01	-1593.01	87.39	202457.83	1.42	1882023.50	-1.43	3.12
1825.00	15.59	70.97	1804.10	-1617.10	89.71	202460.15	7.67	1882029.75	4.74	3.05
1850.00	16.00	73.91	1828.16	-1641.16	91.76	202462.20	14.16	1882036.24	11.16	3.60
1875.00	16.14	76.49	1852.18	-1665.18	93.53	202463.97	20.85	1882042.93	17.79	2.91
1900.00	16.42	79.92	1876.18	-1689.18	94.96	202465.40	27.71	1882049.79	24.59	4.01
1925.00	16.40	83.42	1900.16	-1713.16	95.98	202466.42	34.69	1882056.77	31.54	3.96
1950.00	16.61	86.47	1924.13	-1737.13	96.61	202467.05	41.76	1882063.84	38.59	3.57
2160.00	19.30	89.90	2123.89	-1936.89	98.52	202468.96	106.44	1882128.52	103.17	1.38
2413.00	19.50	88.50	2362.53	-2175.53	99.69	202470.13	190.46	1882212.54	187.11	0.20
2476.00	19.50	88.70	2421.92	-2234.92	100.21	202470.65	211.49	1882233.57	208.10	0.11
2726.00	19.10	91.30	2657.87	-2470.87	100.23	202470.67	294.09	1882316.17	290.67	0.38
2914.00	18.50	93.10	2835.84	-2648.84	97.92	202468.36	354.63	1882376.71	351.25	0.44
3038.00	18.70	93.00	2953.37	-2766.37	95.81	202466.25	394.12	1882416.20	390.79	0.16
3163.00	18.90	93.90	3071.70	-2884.70	93.39	202463.83	434.33	1882456.41	431.06	0.28
3352.00	19.50	92.60	3250.18	-3063.18	89.87	202460.31	496.39	1882518.47	493.19	0.39
3415.00	19.60	92.00	3309.55	-3122.55	89.03	202459.47	517.45	1882539.53	514.27	0.36
3479.00	19.90	91.70	3369.79	-3182.79	88.33	202458.77	539.06	1882561.14	535.90	0.49
3542.00	20.10	91.40	3428.99	-3241.99	87.75	202458.19	560.60	1882582.68	557.44	0.36
3606.00	20.50	91.20	3489.01	-3302.01	87.24	202457.68	582.80	1882604.88	579.65	0.63
3666.00	20.50	91.50	3545.21	-3358.21	86.75	202457.19	603.81	1882625.89	600.66	0.18
3730.00	19.70	93.30	3605.32	-3418.32	85.83	202456.27	625.78	1882647.86	622.65	1.58
3793.00	19.70	93.30	3664.63	-3477.63	84.61	202455.05	646.98	1882669.06	643.88	0.00
3855.00	18.90	92.50	3723.14	-3536.14	83.57	202454.01	667.45	1882689.53	664.37	1.36
3919.00	18.90	92.90	3783.69	-3596.69	82.59	202453.03	688.16	1882710.24	685.10	0.20

3982.00	18.90	94.20	3843.30	-3656.30	81.33	202451.77	708.52	1882730.60	705.49	0.67
4046.00	19.10	94.20	3903.81	-3716.81	79.81	202450.25	729.30	1882751.38	726.31	0.31
4109.00	18.30	93.50	3963.48	-3776.48	78.45	202448.89	749.45	1882771.53	746.50	1.32
4141.00	17.60	92.70	3993.93	-3806.93	77.91	202448.35	759.30	1882781.38	756.36	2.32
4173.00	16.90	93.10	4024.49	-3837.49	77.43	202447.87	768.78	1882790.86	765.84	2.22
4235.00	16.20	94.00	4083.92	-3896.92	76.34	202446.78	786.41	1882808.49	783.50	1.20
4299.00	14.60	92.40	4145.62	-3958.62	75.38	202445.82	803.37	1882825.45	800.49	2.59
4362.00	13.00	91.70	4206.80	-4019.80	74.84	202445.28	818.39	1882840.47	815.51	2.55
4423.00	12.00	88.40	4266.35	-4079.35	74.81	202445.25	831.59	1882853.67	828.70	2.01
4487.00	9.90	86.00	4329.18	-4142.18	75.38	202445.82	843.73	1882865.81	840.82	3.36
4550.00	7.40	85.50	4391.46	-4204.46	76.08	202446.52	853.18	1882875.26	850.24	3.97
4614.00	4.90	88.70	4455.09	-4268.09	76.46	202446.90	860.02	1882882.10	857.07	3.94
4677.00	2.40	93.10	4517.96	-4330.96	76.45	202446.89	864.03	1882886.11	861.07	3.99
4740.00	1.50	143.20	4580.92	-4393.92	75.72	202446.16	865.84	1882887.92	862.91	2.92
4804.00	1.50	215.40	4644.91	-4457.91	74.37	202444.81	865.85	1882887.93	862.97	2.76
4866.00	1.50	226.50	4706.88	-4519.88	73.15	202443.59	864.79	1882886.87	861.95	0.47
4930.00	1.70	244.90	4770.86	-4583.86	72.17	202442.61	863.33	1882885.41	860.51	0.86
4993.00	1.90	248.00	4833.83	-4646.83	71.38	202441.82	861.51	1882883.59	858.73	0.35
5055.00	2.00	251.00	4895.79	-4708.79	70.64	202441.08	859.54	1882881.62	856.78	0.23
5117.00	2.40	249.20	4957.75	-4770.75	69.83	202440.27	857.30	1882879.38	854.57	0.65
5180.00	2.30	240.50	5020.69	-4833.69	68.74	202439.18	854.97	1882877.05	852.27	0.59
5244.00	2.00	236.00	5084.65	-4897.65	67.48	202437.92	852.92	1882875.00	850.27	0.54
5307.00	1.70	232.50	5147.62	-4960.62	66.30	202436.74	851.27	1882873.35	848.66	0.51
5370.00	1.50	234.00	5210.59	-5023.59	65.25	202435.69	849.86	1882871.94	847.28	0.32
5434.00	1.50	236.80	5274.57	-5087.57	64.29	202434.73	848.48	1882870.56	845.93	0.11
5463.00	1.50	239.30	5303.56	-5116.56	63.89	202434.33	847.84	1882869.92	845.30	0.23
5526.00	0.30	102.20	5366.55	-5179.55	63.44	202433.88	847.29	1882869.37	844.77	2.75
5557.00	1.30	92.60	5397.55	-5210.55	63.40	202433.84	847.72	1882869.80	845.20	3.24
5587.00	1.60	93.10	5427.54	-5240.54	63.37	202433.81	848.48	1882870.56	845.96	1.00
5618.00	1.90	93.20	5458.53	-5271.53	63.31	202433.75	849.43	1882871.51	846.91	0.97
5649.00	3.30	86.80	5489.49	-5302.49	63.33	202433.77	850.83	1882872.91	848.31	4.61
5680.00	6.00	82.20	5520.39	-5333.39	63.60	202434.04	853.33	1882875.41	850.80	8.79
5713.00	9.20	80.30	5553.09	-5366.09	64.28	202434.72	857.64	1882879.72	855.08	9.73
5745.00	12.00	81.30	5584.54	-5397.54	65.22	202435.66	863.45	1882885.53	860.86	8.77
5776.00	15.30	80.10	5614.67	-5427.67	66.41	202436.85	870.66	1882892.74	868.03	10.68
5808.00	18.70	79.20	5645.26	-5458.26	68.10	202438.54	879.86	1882901.94	877.18	10.66
5840.00	21.40	80.90	5675.32	-5488.32	69.98	202440.42	890.67	1882912.75	887.91	8.63
5872.00	24.40	81.30	5704.80	-5517.80	71.90	202442.34	902.97	1882925.05	900.15	9.39
5904.00	26.80	80.80	5733.65	-5546.65	74.06	202444.50	916.63	1882938.71	913.73	7.53
5936.00	29.30	83.20	5761.89	-5574.89	76.14	202446.58	931.53	1882953.61	928.55	8.57
5968.00	32.10	84.50	5789.40	-5602.40	77.88	202448.32	947.77	1882969.85	944.72	8.99
6000.00	35.20	86.60	5816.04	-5629.04	79.24	202449.68	965.44	1882987.52	962.35	10.35
6031.00	38.30	89.10	5840.88	-5653.88	79.92	202450.36	983.97	1883006.05	980.84	11.10
6063.00	41.30	91.50	5865.46	-5678.46	79.80	202450.24	1004.45	1883026.53	1001.31	10.53
6093.00	43.80	93.80	5887.56	-5700.56	78.86	202449.30	1024.71	1883046.79	1021.59	9.81
6126.00	46.10	94.80	5910.91	-5723.91	77.10	202447.54	1047.96	1883070.04	1044.89	7.29
6156.00	49.00	95.40	5931.16	-5744.16	75.13	202445.57	1070.00	1883092.08	1066.98	9.78
6186.00	51.90	96.00	5950.26	-5763.26	72.83	202443.27	1093.02	1883115.10	1090.06	9.79
6218.00	55.30	96.60	5969.25	-5782.25	70.01	202440.45	1118.61	1883140.69	1115.74	10.73
6251.00	59.20	97.50	5987.10	-5800.10	66.60	202437.04	1146.15	1883168.23	1143.37	12.04
6281.00	62.70	98.00	6001.66	-5814.66	63.06	202433.50	1172.13	1883194.21	1169.45	11.76
6313.00	66.30	97.20	6015.44	-5828.44	59.24	202429.68	1200.76	1883222.84	1198.19	11.47
6343.00	69.00	96.30	6026.84	-5839.84	55.98	202426.42	1228.31	1883250.39	1225.83	9.42

6374.00	71.90	95.50	6037.22	-5850.22	52.98	202423.42	1257.37	1883279.45	1254.97	9.67
6406.00	74.90	94.60	6046.36	-5859.36	50.28	202420.72	1287.91	1883309.99	1285.58	9.75
6437.00	77.00	94.40	6053.88	-5866.88	47.93	202418.37	1317.89	1883339.97	1315.62	6.80
6469.00	78.60	93.70	6060.65	-5873.65	45.72	202416.16	1349.09	1883371.17	1346.88	5.44
6533.00	80.60	93.10	6072.20	-5885.20	41.98	202412.42	1411.92	1883434.00	1409.80	3.26
6564.00	81.60	92.80	6076.99	-5889.99	40.41	202410.85	1442.51	1883464.59	1440.42	3.36
6596.00	82.70	92.50	6081.36	-5894.36	38.94	202409.38	1474.17	1883496.25	1472.12	3.56
6631.00	83.80	92.50	6085.48	-5898.48	37.43	202407.87	1508.90	1883530.98	1506.87	3.14
6658.00	85.10	92.70	6088.09	-5901.09	36.21	202406.65	1535.74	1883557.82	1533.74	4.87
6689.00	86.10	92.50	6090.47	-5903.47	34.81	202405.25	1566.62	1883588.70	1564.65	3.29
6720.00	85.90	92.30	6092.63	-5905.63	33.51	202403.95	1597.51	1883619.59	1595.57	0.91
6751.00	85.30	92.40	6095.01	-5908.01	32.24	202402.68	1628.40	1883650.48	1626.48	1.96
6783.00	85.10	92.50	6097.69	-5910.69	30.88	202401.32	1660.26	1883682.34	1658.36	0.70
6815.00	84.50	92.60	6100.59	-5913.59	29.46	202399.90	1692.09	1883714.17	1690.23	1.90
6880.00	83.80	92.70	6107.21	-5920.21	26.47	202396.91	1756.68	1883778.76	1754.89	1.09
6943.00	82.40	94.80	6114.78	-5927.78	22.38	202392.82	1819.09	1883841.17	1817.39	3.99
7005.00	78.60	95.80	6125.01	-5938.01	16.74	202387.18	1879.96	1883902.04	1878.42	6.33
7068.00	76.70	96.10	6138.49	-5951.49	10.36	202380.80	1941.17	1883963.25	1939.80	3.05
7131.00	78.40	95.40	6152.07	-5965.07	4.20	202374.64	2002.38	1884024.46	2001.18	2.91
7193.00	78.70	95.00	6164.38	-5977.38	-1.31	202369.13	2062.89	1884084.97	2061.84	0.80
7256.00	76.30	92.90	6178.01	-5991.01	-5.55	202364.89	2124.25	1884146.33	2123.30	5.01
7318.00	75.70	92.70	6193.01	-6006.01	-8.49	202361.95	2184.33	1884206.41	2183.45	1.02
7381.00	76.10	92.80	6208.36	-6021.36	-11.42	202359.02	2245.36	1884267.44	2244.54	0.65
7444.00	75.50	94.00	6223.81	-6036.81	-15.04	202355.40	2306.33	1884328.41	2305.59	2.08
7506.00	77.00	95.20	6238.55	-6051.55	-19.87	202350.57	2366.36	1884388.44	2365.75	3.06
7569.00	77.90	94.30	6252.24	-6065.24	-24.96	202345.48	2427.64	1884449.72	2427.16	2.00
7632.00	78.30	94.70	6265.23	-6078.23	-29.80	202340.64	2489.09	1884511.17	2488.74	0.89
7694.00	79.50	94.80	6277.17	-6090.17	-34.84	202335.60	2549.72	1884571.80	2549.50	1.94
7757.00	80.10	95.60	6288.32	-6101.32	-40.46	202329.98	2611.47	1884633.55	2611.40	1.57
7819.00	80.70	96.20	6298.66	-6111.66	-46.74	202323.70	2672.28	1884694.36	2672.38	1.36
7882.00	82.10	96.00	6308.08	-6121.08	-53.36	202317.08	2734.22	1884756.30	2734.50	2.24
7944.00	82.70	95.30	6316.28	-6129.28	-59.41	202311.03	2795.37	1884817.45	2795.82	1.48
8007.00	83.30	94.40	6323.96	-6136.96	-64.70	202305.74	2857.68	1884879.76	2858.27	1.71
8070.00	82.40	92.80	6331.80	-6144.80	-68.62	202301.82	2920.06	1884942.14	2920.75	2.90
8132.00	82.30	91.00	6340.06	-6153.06	-70.66	202299.78	2981.48	1885003.56	2982.19	2.88
8195.00	81.30	90.30	6349.04	-6162.04	-71.37	202299.07	3043.83	1885065.91	3044.53	1.93
8258.00	80.90	90.40	6358.79	-6171.79	-71.75	202298.69	3106.07	1885128.15	3106.75	0.65
8320.00	79.00	90.80	6369.61	-6182.61	-72.39	202298.05	3167.11	1885189.19	3167.78	3.13
8383.00	78.60	91.80	6381.85	-6194.85	-73.79	202296.65	3228.89	1885250.97	3229.58	1.68
8446.00	78.90	94.30	6394.14	-6207.14	-77.08	202293.36	3290.59	1885312.67	3291.35	3.92
8508.00	79.90	96.40	6405.54	-6218.54	-82.76	202287.68	3351.26	1885373.34	3352.18	3.70
8571.00	82.20	98.30	6415.35	-6228.35	-90.73	202279.71	3412.97	1885435.05	3414.12	4.71
8633.00	83.80	98.40	6422.90	-6235.90	-99.66	202270.78	3473.86	1885495.94	3475.26	2.59
8696.00	84.50	98.20	6429.32	-6242.32	-108.71	202261.73	3535.87	1885557.95	3537.54	1.16
8760.00	84.70	97.80	6435.35	-6248.35	-117.58	202252.86	3598.97	1885621.05	3600.89	0.70
8810.00	84.70	97.80	6439.96	-6252.96	-124.33	202246.11	3648.29	1885670.37	3650.41	0.00

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MAR 23 2005
DIVISION OF OIL, GAS &
GEOTHERMAL RESOURCES

STATE OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

REPORT ON PROPOSED CHANGE OF WELL DESIGNATION

Cypress, California
December 21, 2005

Chris Williamson
BREITBURN ENERGY CO. LP
515 South Flower St., Suite 4800
Los Angeles, CA 90071

Your request, dated **12/7/2005**, proposing to change the designation of well(s) in Sec. **30**, T. **1**S, **14**W, SB B. & M., **Beverly Hills** Field, **Los Angeles** County, District 1, has been received.

The proposed change in designation, in accordance with Section 3203, Public Resources Code, is authorized as follows:

"West Pico" 46 API No. **037-26615** shall be known hereafter as **"West Pico" 58**.

Hal Bopp
State Oil and Gas Supervisor

By [signature]
For R. K. Baker, *Deputy Supervisor*

FL:vm

cc: Update
EDP
Conservation Committee
File

MAPPING	PARADOX	WELL HISTORY	FOLDERS WELL	FOLDERS LOG	EDP
#122 WC 3-10-06	12/21/05 vm	12/21/05 vm	12/21/05 vm	12/21/05 vm	2-24-06

OGD157 2/98

RESOURCES AGENCY OF CALIFORNI.
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

REQUEST FOR CHANGE OF WELL DESIGNATION

12-7-05
Date

This is a request for a change of well designation for the following well(s):

Sec. 30 , T. 1S , R. 14W , S.B B. & M., Beverly Hills field,

County.

OLD DESIGNATION	NEW DESIGNATION
West Pico 46	West Pico 58

BreitBurn Energy Company LP
(Name of Operator)
515 South Flower St., Suite 4800
(Address)
Los Angeles Ca. 90071

By Chris Williamson - Agent

OG16 (11/98)

21

BREITBURN

December 7, 2005

To: Department of Conservation
Division of Oil, Gas and Geothermal Resources
5816 Corporate Ave., Suite #200
Cypress, Ca. 90630-4731

From: BreitBurn Energy Company LP
515 South Flower St. Suite 4800
Los Angeles, Ca. 90071

Re: **Well Name Change** - West Pico 46 to the West Pico 58
API #037-20615, Sec. 30-T1S-R14W

Please find the enclosed **DOG Form OG16** for a well name change. BreitBurn Energy requests the well,"West Pico" 46 API #037-20615, be changed to "West Pico" 58. Please review our request and approve at your earliest convenience. If you have any questions, please feel free to contact me at (213) 255-5900, extension 206.

Sincerely,

Chris Williamson
Vice President of Operations
BreitBurn Energy Company LP
a subsidiary of Provident Energy Trust
Phone: (213)-225-5900 ext. 206
Fax: (213) 225-5916

RECEIVED

DEC 8 2005

DIVISION OF OIL, GAS
& GEOTHERMAL RESOURCES
CYPRESS

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

REPORT OF PROPERTY AND WELL TRANSFER

Field or County		District
ROSECRANS, SANTA FE SPRINGS, BEVERLY HILLS, SAWTELLE, SEAL BEACH, LONG BEACH, SOUTH ROSECRANS, SAWTELLE, DOMINGUEZ, LOS ANGELES COUNTY, EAST COYOTE, BREA-OLINDA,		District 1 (Cypress, California)
Former owner		Date
Breitburn Energy Company. LLC	B6127	November 7, 2005

Well Name	API Number	Section Township Range
See Attached List all Wells (779)	See Attached List all Wells (779)	See Attached List all Wells (779)

Description of the land upon which the well (s) is (are) located.
Various

Date of transfer	New owner		Type of organization
November 7, 2005		Breitburn Energy Company, L.P.	Partnership
	Address:	515 S. Flower Street, Suite 4800 Los Angeles, CA 90071	Telephone 213/225-5900
Reported by	OG30A, received 10/27/2005 signed by both parties		
Confirmed by	Same as above		
New operator new status **PA**	Designation of Agent Chris Williamson, Agent		
Old operator new status **AB**	Remarks Note: Operator Name Change. For further details see operator file (B6127) Brietburn Energy Company L.P.		

OPERATOR STATUS ABBREVIATIONS
PA – Producing Active
NPA- No potential, Active
PI- Potential Inactive
NPI-No potential, Inactive
AB-Abandoned or No More Wells

cc: Update; Envir Desk (2); File
Conservation Committee
Harold W. Bertholf, Inc.
L.A. and Orange County Assessors
Cypress, WellStats – District 1
Sacramento, WellStats, HQS

Deputy Supervisor: R. K. Baker

Signature: Richard K. Baker, District Deputy

FORM AND RECORD CHECK LIST

Form or Record	Initials	Date	Form or Record	Initials	Date
Form OGD121			Map and Book	Forward 11/21/05	
Operator Card		11-21-05	Notice cancellations	N/A	
Well Records		11-21-05	Bond Status		11-21-05
Log Records		11-21-05	EDP		11-21-05
Production Reports	N/A		Data Base		11-21-05

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

No. T 106-0091

REPORT ON OPERATIONS

Cypress, California
May 1, 2006

Chris E. Williamson, Agent
BREITBURN ENERGY CO. L.P.
515 S. Flower Street, Suite 4800
Los Angeles, CA 90017

Your operations at well **"West Pico" 58,** A.P.I. No. **037-26615**, Sec. **30**, T. **1**S., R. **14**W, S.B. B. & M., **Beverly Hills** Field, **Los Angeles** County, were witnessed on **12/17/05**. **J. Huff**, representative of the supervisor, was present from **0715** to **1000**. There was also present **Bill Thompson**, **Consultant**.

Present condition of well: **16" cem 60'; 10 3/4" cem 865'. TD 878' (drilling).**

The operations were performed for the purpose of testing the blowout prevention equipment and installation.

DECISION: APPROVED.

DEFICIENCIES: None.

CONTRACTOR: Ensign

FL:bw

cc: Update

Hal Bopp
State Oil and Gas Supervisor

By:
For: R. K. Baker, *Deputy Supervisor*

API No. 037-26615 DIV OF OIL, GAS, AND GEOTHERMAL RESOURCES OKN T 106-0091

BLOWOUT PREVENTION EQUIPMENT MEMO

Operator Breitburn Energy Co. LP Well "West Pico" 58 Sec. 30 T. 1S R. 14W
Field Beverly Hills County Los Angeles Spud Date 12/14/2005

VISITS:	Date	Engineer	Time	Operator's Rep.	Title
1st	12/17/05	J. Huff	(715 to 1000)	Bill Thompson	Consultant
2nd			(to)		

Contractor Ensign Rig# 602 Contractor's Rep. & Title Lee Ramsey Toolpusher
Casing record of well: 16" cem 60'; 10 3/4" cem 865'. TD 878' (Drilling).

OPERATION: Testing ~~(inspecting)~~ the blowout prevention equipment and installation. Critical well? Y X N ___
DECISION: The blowout prevention equipment and its installation on the 10 3/4 " casing are approved.

Proposed Well Opns: New Drill . MACP: ___ psi
Hole size: 14 3/4 " fr. 0 ' to 878 ' , ___ " to ___ ' & ___ " to ___ '

REQUIRED BOPE CLASS: III B 3M

CASING RECORD OF BOPE ANCHOR STRING					Cement Details	Top of Cement	
Size	Weight(s)	Grade(s)	Shoe at	CP at		Casing	Annulus
10 3/4	40.5	J-55	865'		lead: 178 sx	828'	0'
					tail: 99 sx		
					cem ret: 1 bbl to surface		

BOP STACK

API Symb.	Ram Size (in.)	Manufacturer	Model or Type	Vert. Bore Size (in.)	Press. Rtg.	Date Last Overhaul
A	CSO	Hydril	GK-17	13 5/8	3M	
Rd	5	Shaffer	E	13 5/8	3M	
Rd	CSO	Shaffer	E	13 5/8	3M	

TEST DATA

Gal. to Close	Recovery Time (Min.)	Calc. GPM Output	psi Drop to Close	Secs. to Close	Test Date	Test Press.
9.66					12/17	1M
3.55					12/17	1M
3.55					12/17	1200 *

TOTAL: 16.76

ACTUATING SYSTEM

Accumulator Unit(s) Working Pressure 2400 psi
Total Rated Pump Output ___ gpm Fluid Level ok
Distance From Well Bore 60 ft.

	Accum. Manufacturer	Capacity	Precharge
1	Koomey	120 gal.	1000 psi
2		gal.	psi

	CONTROL STATIONS	Elec.	Hyd.	Pneu.
X	Manifold at accumulator unit		X	
X	Remote at Driller's station			X
	Other:			

	EMERG. BACKUP SYSTEM			Press.	Wkg. Fluid
X	N_2 Cylinders	1	L=51"	2250	6.5 gal.
	Other:	2	L=51"	2500	8 gal.
		3	L=51"	2550	8 gal.
		4	L=51"	2500	8 gal.
		5	L= "		gal.
		6	L= "		gal.

TOTAL: 30.5 gal.

AUXILIARY EQUIPMENT

		No.	Size (in.)	Rated Press.	Connections: Weld	Flange	Thread	Test Press.
X	Fill-up Line							
X	Kill Line		2	3M			X	1M
X	Control Valve(s)	1		3M			X	—
X	Check Valve(s)	1		3M			X	1M
X	Aux. Pump Connect.			3M			X	1M
X	Choke Line		3	3M		X	X	1M
X	Control Valve(s)	10		3M			X	1M
X	Pressure Gauge						X	
X	Adjustable Choke(s)	2	2	3M		X	X	1M
X	Bleed Line		2		X		X	
X	Upper Kelly Cock							1M
	~~Lower Kelly Cock~~							
X	Standpipe Valve							1M
X	Standpipe Press. Gauge							
X	Pipe Safety Valve		5	3M				1M
X	Internal Preventer		5	3M				1M

	HOLE FLUID MONITORING EQUIPMENT	Alarm Audible	Alarm Visual	Class
X	Calibrated Mud Pit	X	X	A
X	Pit Level Indicator	X	X	B
X	Pump Stroke Counter	X	X	
X	Pit Level Recorder	X	X	
X	Flow Sensor	X	X	C
	Mud Totalizer			
	Calibrated Trip Tank			
	Other:			

Hole Fluid Type	Weight	Storage Pits (Type & Size)
Mud	9.0	400 bbl pit
freshwater		

REMARKS AND DEFICIENCIES:
* Blind rams tested to 1200 psi for 15 min from drillers console

OGD9 (4/03/UCP/3M)

4

1799-091

CONTRACTOR: Ensign

UNCORRECTABLE DEFICIENCIES: NONE

DEFICIENCIES NOTED AND TO BE CORRECTED:

DEFICIENCIES NOTED AND CORRECTED:

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

No. P 105-0829

054 (Field Code)

03 (Area Code)

10 (New Pool Code)

10 (Old Pool Code)

PERMIT TO CONDUCT WELL OPERATIONS

Production Well

Chris Williamson
BREITBURN ENERGY COMPANY
515 South Flower St., Suite 4800
LOS ANGELES CA 90071

Cypress, California
November 16, 2005

Your proposal to **drill** well **"West Pico" 46**, A.P.I. No. **037-26615**, Section **30**, T. **1S**, R. **14W**, **S.B.** B. & M., **Beverly Hills** Field, **East** area, **Miocene(Hauser)** pool, **Los Angeles** County, dated **11/4/2005**, received **11/8/2005** has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED:

1. Blowout prevention equipment with hydraulic controls, equivalent to this Division's Class **IIIB3M** requirements, or better, shall be installed and maintained in operating condition.
2. Drilling fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used while redrilling.
3. All oil, gas or freshwater sands behind the **7"** casing shall be protected by either lifting cement or by multiple stage cementing.
4. A directional survey shall be made and filed with this Division.
5. This Division shall be consulted and a Supplementary Notice may be required before making any changes in the proposed program.
6. **THIS DIVISION SHALL BE NOTIFIED TO:**
   a. Witness a test of the installed blowout prevention equipment prior to drilling out of the **10-3/4"** casing.
   b. Witness a production water shutoff test within **60** days after the well is placed on production.

NOTE:

1. The base of the fresh water is above **500'**.
2. A crew drill may be required at the time of the blowout prevention equipment test and/or inspection.

FML:fl
cc: Update
EDP
BLANKET BOND

Engineer: Floyd Leeson

Phone: 714/816-6847

Hal Bopp
State Oil and Gas Supervisor

By _____
For R. K. Baker, *Deputy Supervisor*

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

OG 111

17

OG/FL

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

NOTICE OF INTENTION TO DRILL NEW WELL

P#105-0829

C.E.Q.A. INFORMATION			
EXEMPT ☐ CLASS ____	NEG. DEC. ☐ S.C.H. NO. ____	E.I.R. ☐ S.C.H. NO. ____	DOCUMENT NOT REQUIRED BY LOCAL JURISDICTION ☒
See Reverse Side			

FOR DIVISION USE ONLY					
MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121
		—	BB m	11/10/05	11/12/05

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to commence drilling well West Pico #46, well type Oil, API No. 037-20615 (Assigned by Division)

Sec. 30, T. 1S, R. 14W, SBB.&M., East Beverly Hills Field, Los Angeles County.

Legal description of mineral-right lease, consisting of _____ acres (attach map or plat to scale), is as follows:

Do mineral and surface leases coincide? Yes ☒ No ☐. If answer is no, attach legal description of both surface and mineral leases, and map or plat to scale.

Location of well _____ feet _____ (Direction) along section ☐ / property ☐ (Check one) line and _____ feet _____ (Direction)

at right angles to said line from the _____ corner of section ☐ / property ☐ (Check one) _____ or

From the intersection of the center lines of Pico Blvd. and Oakhurst, 75' 9" north of the center line of Oakhurst, thence 112'6" east at 90o angle. Section 30-T1S/R14W SBB&M.

Is this a critical well according to the definition on the next page of this form? Yes ☒ No ☐

If well is to be directionally drilled, show proposed coordinates (from surface location) and true vertical depth at total drilled depth: 116 feet south (Direction) and 3568 feet east (Direction) Estimated true vertical depth 6437. Elevation of ground above sea level 171 feet. All depth measurements taken from top of kelly bushing (Derrick Floor, Rotary Table, or Kelly Bushing) that is 16 feet above ground.

PROPOSED CASING PROGRAM

SIZE OF CASING INCHES API	WEIGHT	GRADE AND TYPE	TOP	BOTTOM	CEMENTING DEPTHS	CALCULATED FILL BEHIND CASING (Linear Feet)
10-3/4"	40.5#	J-55	Surface	856'	856'	856'
7	26#	N80	Surface	6840'	6840'	~3000'
4-1/2"	10.5	K55	6740	8984	NA	NA

(A complete drilling program is preferred and may be submitted in lieu of the above program.)

Intended zone(s) of completion Hauser = ~1000 psi (Name, depth, and expected pressure) Estimated total depth 8984' (Feet)

It is understood that if changes to this plan become necessary, we are to notify you immediately.

Name of Operator	Type of Organization (Corporation, Partnership, Individual, etc.)	
BreitBurn Energy Company LLC	Corporation	
Address: 515 South Flower Street, Suite 4800	City: Los Angeles	Zip Code: 90071
Telephone Number: 213-255-5900 / Name of Person Filing Notice: Chris Williamson	Signature: Chris Williamson	Date: 11/4/05

This notice and an indemnity or cash bond shall be filed, and approval given, before drilling begins. If operations have not commenced within one year of receipt of the notice, this notice will be considered cancelled.

OG105 (5/98)

16

RECEIVED

NOV – 8 2005

DIVISION OF OIL, GAS
& GEOTHERMAL RESOURCES
CYPRESS

Information for compliance with the California Environmental Quality Act of 1970 (C.E.Q.A.).

If an environmental document has been prepared by the lead agency, please submit a copy of the document with this notice *or* supply the following information:

Lead Agency: _____

Lead Agency Contact Person: _____

Address: _____

_____

Phone: ( ) _____

FOR DIVISION USE ONLY
District review of environmental document (if applicable)? Yes ☐ No ☐
Remarks: _____
_____
_____

CRITICAL WELL

As defined in the California Administrative Code, Title 14, Section 1720 (a), "Critical well" means a well within:

(1) 300 feet of the following:
  (A) Any building intended for human occupancy that is not necessary to the operation of the well; or
  (B) Any airport runway.
(2) 100 feet of the following:
  (A) Any dedicated public street, highway, or nearest rail of an operating railway that is in general use;
  (B) Any navigable body of water or watercourse perennially covered by water;
  (C) Any public recreational facility such as a golf course, amusement park, picnic ground, campground, or any other area of periodic high-density population; or
  (D) Any officially recognized wildlife preserve.

Exceptions or additions to this definition may be established by the supervisor upon his own judgment or upon written request of an operator. This written request shall contain justification for such an exception.

Date: 11/4/2005

BREITBURN ENERGY COMPANY, LLC

WEST PICO – EAST BEVERLY HILLS
SUMMARY DRILLING PROGRAM

WEST PICO #46 HORIZONTAL

Section 30-T1S/R14W, SBB&M
Los Angeles, CA
GL Elev.: 171'

Surface to 856' (851' TVD) – 14-3/4" Hole:

A. Directionally drill 9-7/8" pilot hole to 10-3/4" casing point at ~856' (per attached Sperry Plan #6 dated 11/2/05). Open hole up from 9-7/8" to 14-3/4" with fixed, bullnose reamer.

B. Surface Casing: 856' – 10-3/4", 40.5#, J-55, STC.

C. Cement 10-3/4" Surface Casing: Sufficient slurry to fill to surface. [10-3/4" guide shoe, 10-3/4" insert valve, centralizers at 10' above shoe, 1st, 2nd, 4th, and last collar below surface].

D. Nipple up Class III, 5M BOP (min) on 11" 3M x 10-3/4" SOW casing head and install Type B hole monitoring equipment (fill up line above BOP). Before drilling out surface casing, test all BOPE - test to be witnessed and approved by CDOGGR representative.

Intermediate Hole Section - 856' to 6840' (6087' TVD) – 9-7/8" Hole:

A. Drilling:

1. Directionally drill 9-7/8" hole to 6840'.

2. Wipe hole as conditions dictate.

3. Electric Logs: none to be run on intermediate casing point.

B. Intermediate Casing (7" at 6840'):

Casing Design: 7", 26#, N80, LTC-Buttress [type design]

Sec	Length	Interval	Wt.	Grade	Thrd
2	5500'	0- 5500'	26.0	N-80	LTC
1	1340'	5500-6840'	26.0	N-80	Butt

C. Cement 7" Production Casing:

Cement 7" casing with annular volume to fill to 500' (minimum) above the top of any hydrocarbon bearing zone. Slurry design to be determined.

D. Land 7" casing in slips with tension. N/D BOPE.

E. Install 11" 3M x 7-1/16" 5M tubing spool and test seal. NU BOPE and retest system for CDOGGR representative.

Production Hole Section - 6840' to 8984' (6437' TVD) – 6" Hole:

A. Drilling:

1. Directionally drill 6" hole to 8984'.

2. Wipe hole as conditions dictate.

3. Electric Logs: Platform Express (Induction, Density/Neutron, GR, caliper) on drillpipe.

B. Production Liner (4-1/2" at 8984'):

Casing Design: 4-1/2", 10.5#, K55, LTC [type design] – slotted (to be determined)

Drilling Fluids:

Spud mud, fresh water gel system, will be employed on surface hole section. An LSND water base mud system to be utilized for intermediate hole section. A 3% KCl Xanvis to be employed for the production hole. Recommended mud properties as follows:

Depth (TVD)	Type	Weight	Visc	F/L
0'- 1600'	Gel System	8.4-9.0	45-55	n/c
1600'- 6840'	LSND WBM	9.0-9.5	35-45	6-10
6840'- 8984'	3% KCl Xanvis	8.6-8.9	30-35	10-12

[*Mud weights are a reference, use mud weight as required for hole stability and to maintain well control.*]

Prepared by: JPF

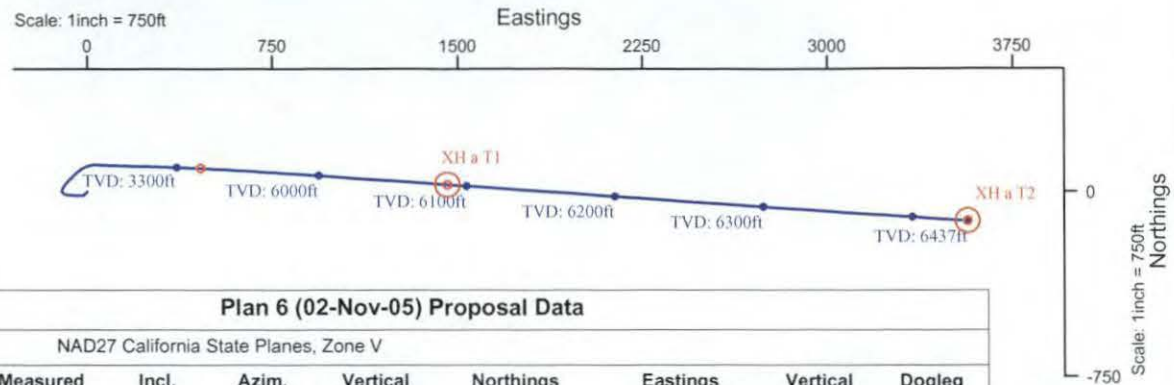
DRILTEK
PROFESSIONAL DRILLING MANAGEMENT

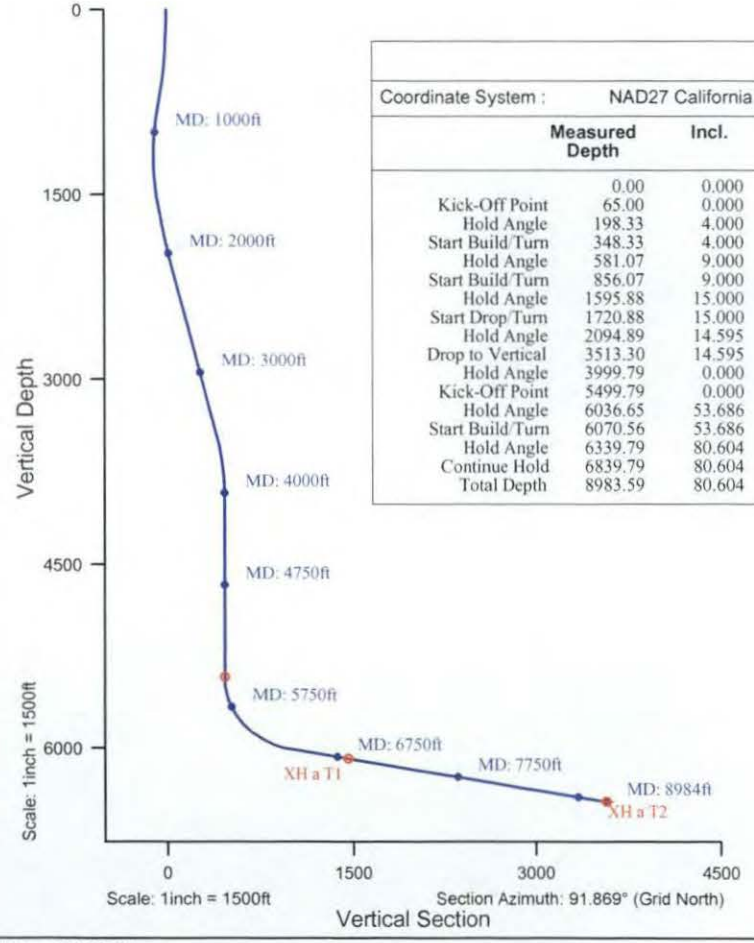
HALLIBURTON

BreitBurn Energy

DrillQuest
Sperry-Sun

Los Angeles County
West Pico
WP-807
Plan 6 (02-Nov-05)





Plan 6 (02-Nov-05) Proposal Data

Coordinate System : NAD27 California State Planes, Zone V

	Measured Depth	Incl.	Azim.	Vertical Depth	Northings	Eastings	Vertical Section	Dogleg Rate
	0.00	0.000	0.000	0.00	0.00 N	0.00 E	0.00	
Kick-Off Point	65.00	0.000	0.000	65.00	0.00 N	0.00 E	0.00	0.000
Hold Angle	198.33	4.000	225.000	198.23	3.29 S	3.29 W	-3.18	3.000
Start Build/Turn	348.33	4.000	225.000	347.86	10.69 S	10.69 W	-10.33	0.000
Hold Angle	581.07	9.000	273.000	579.17	15.48 S	34.64 W	-34.11	3.000
Start Build/Turn	856.07	9.000	273.000	850.78	13.23 S	77.60 W	-77.12	0.000
Hold Angle	1595.88	15.000	47.000	1582.61	55.96 N	65.21 W	-67.00	3.000
Start Drop/Turn	1720.88	15.000	47.000	1703.35	78.02 N	41.55 W	-44.07	0.000
Hold Angle	2094.89	14.595	91.983	2066.11	109.50 N	41.21 E	37.61	3.000
Drop to Vertical	3513.30	14.595	91.983	3438.75	97.13 N	398.41 E	395.03	0.000
Hold Angle	3999.79	0.000	0.000	3920.00	95.00 N	460.00 E	456.66	3.000
Kick-Off Point	5499.79	0.000	0.000	5420.00	95.00 N	460.00 E	456.66	0.000
Hold Angle	6036.65	53.686	93.403	5881.68	81.13 N	693.23 E	690.22	10.000
Start Build/Turn	6070.56	53.686	93.403	5901.76	79.51 N	720.51 E	717.53	0.000
Hold Angle	6339.79	80.604	93.958	6005.37	63.61 N	965.81 E	963.22	10.000
Continue Hold	6839.79	80.604	93.958	6087.00	29.56 N	1457.92 E	1456.18	0.000
Total Depth	8983.59	80.604	93.958	6437.00	116.44 S	3567.92 E	3569.82	0.000

Current Well Properties

Well :	WP-807
Horizontal Coordinates:	
Ref. Global Coordinates :	202370.44 N, 1882022.08 E
Ref. Wellhead :	26.26 S, 34.38 E
Ref. Geographical Coordinates :	34.05545817° N, 118.38948611° W
RKB Elevation :	187.00ft above Mean Sea Level
	187.00ft above Mean Sea Level
Grid North Convergence :	-0.222°
North Reference :	Grid North
Units :	Feet (US)

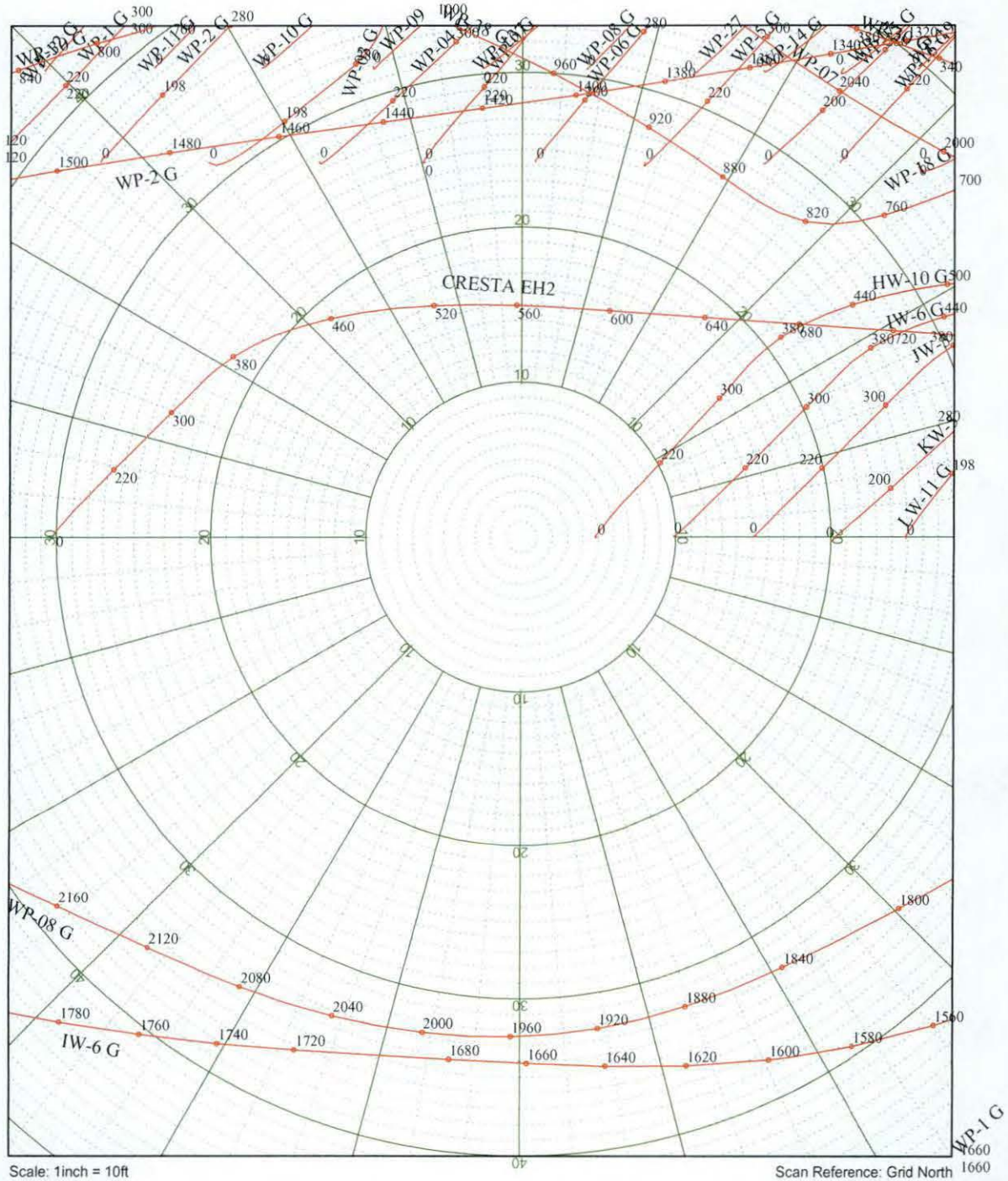
Prepared by:	Date/Time:	Checked:	Approved:
Admin	2 November, 2005 - 12:27		

HALLIBURTON

BreitBurn Energy

DrillQuest
Sperry-Sun

Los Angeles County
West Pico
WP-807
Plan 6 (02-Nov-05)



Scale: 1inch = 10ft
Scan Radius: 200.00ft

Scan Reference: Grid North
Scan Method: Minimum Distance

Prepared by:	Date/Time:	Checked:	Approved:
Admin	2 November, 2005 - 12:10		

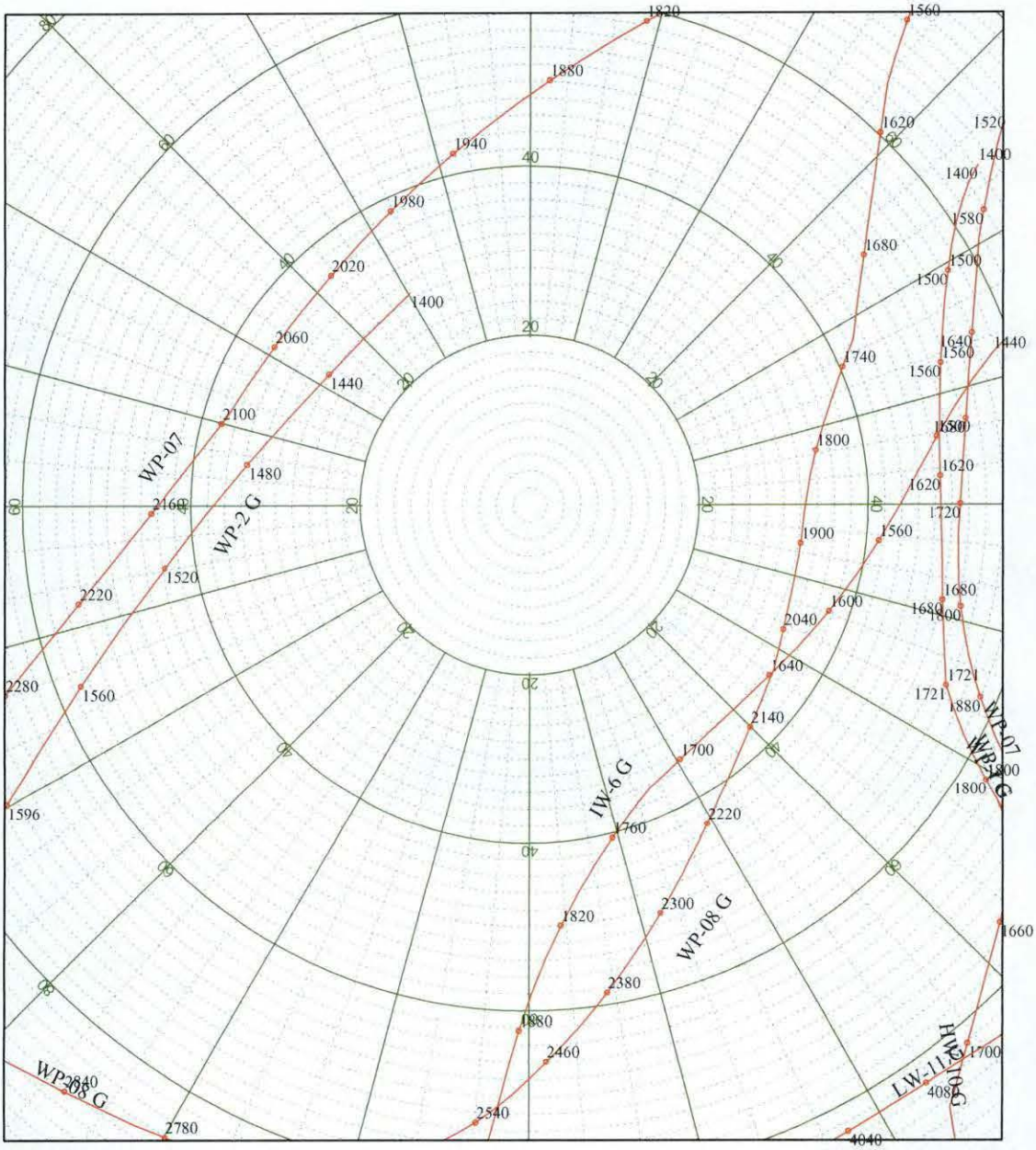
HALLIBURTON

BreitBurn Energy

DrillQuest Sperry-Sun

Los Angeles County
West Pico
WP-807
Plan 6 (02-Nov-05)

Plotted Data Starts at 1400' MD



Scale: 1inch = 20ft
Scan Radius: 200.00ft

Scan Reference: Highside
Scan Method: Minimum Distance

Prepared by:	Date/Time:	Checked:	Approved:
Admin	2 November, 2005 - 12:22		

DrillQuest 3.03.06.010

BreitBurn Energy
Los Angeles County
West Pico
WP-807 - Plan 6 (02-Nov-05)

Halliburton Sperry-Sun Proposal Report

2 November, 2005

Surface Coordinates: 202370.44 N, 1882022.08 E (34.05545817° N, 118.38948611° W)
Grid Coordinate System: NAD27 California State Planes, Zone V

RKB Elevation: 187.00ft above Mean Sea Level

Proposal Ref: pro149369

HALLIBURTON

Proposal Report for West Pico - WP-807 - Plan 6 (02-Nov-05)

Measured Depth (ft)	Incl.	Grid Azim.	Sub-Sea Depth (ft)	Vertical Depth (ft)	Local Coordinates Northings (ft)	Local Coordinates Eastings (ft)	Global Coordinates Northings (ft)	Global Coordinates Eastings (ft)	Dogleg Rate (°/100ft)	Vertical Section	Comment
0.00	0.000	0.000	187.00	0.00	0.00 N	0.00 E	202370.44 N	1882022.08 E		0.00	
65.00	0.000	0.000	122.00	65.00	0.00 N	0.00 E	202370.44 N	1882022.08 E	0.000	0.00	Kick-Off at 65.00ft
100.00	1.050	225.000	87.00	100.00	0.23 S	0.23 W	202370.21 N	1882021.85 E	3.000	-0.22	
198.33	4.000	225.000	-11.23	198.23	3.29 S	3.29 W	202367.15 N	1882018.79 E	3.000	-3.18	End of Build at 198.33ft
200.00	4.000	225.000	-12.89	199.89	3.37 S	3.37 W	202367.07 N	1882018.71 E	0.000	-3.26	
300.00	4.000	225.000	-112.64	299.64	8.30 S	8.30 W	202362.14 N	1882013.78 E	0.000	-8.03	
348.33	4.000	225.000	-160.86	347.86	10.69 S	10.69 W	202359.75 N	1882011.39 E	0.000	-10.33	Start Build/Turn at 348.33ft
400.00	4.693	243.433	-212.38	399.38	12.91 S	13.85 W	202357.53 N	1882008.23 E	3.000	-13.42	
500.00	6.878	264.309	-311.88	498.88	15.33 S	23.47 W	202355.11 N	1881998.61 E	3.000	-22.96	
581.07	9.000	273.000	-392.17	579.17	15.48 S	34.64 W	202354.96 N	1881987.44 E	3.000	-34.11	End of Build/Turn at 581.07ft
600.00	9.000	273.000	-410.86	597.86	15.33 S	37.59 W	202355.11 N	1881984.49 E	0.000	-37.07	
700.00	9.000	273.000	-509.63	696.63	14.51 S	53.22 W	202355.93 N	1881968.86 E	0.000	-52.71	
800.00	9.000	273.000	-608.40	795.40	13.69 S	68.84 W	202356.75 N	1881953.24 E	0.000	-68.36	
856.07	9.000	273.000	-663.78	850.78	13.23 S	77.60 W	202357.21 N	1881944.48 E	0.000	-77.12	Start Build/Turn at 856.07ft
900.00	7.880	277.743	-707.23	894.23	12.64 S	84.01 W	202357.80 N	1881938.07 E	3.000	-83.56	
1000.00	5.655	295.122	-806.54	993.54	9.63 S	95.27 W	202360.81 N	1881926.81 E	3.000	-94.90	
1100.00	4.453	326.949	-906.17	1093.17	4.28 S	101.85 W	202366.16 N	1881920.23 E	3.000	-101.66	
1200.00	5.064	3.013	-1005.85	1192.85	3.38 N	103.73 W	202373.82 N	1881918.35 E	3.000	-103.79	
1300.00	7.031	24.942	-1105.30	1292.30	13.34 N	100.92 W	202383.78 N	1881921.16 E	3.000	-101.30	
1400.00	9.549	36.405	-1204.25	1391.25	25.57 N	93.42 W	202396.01 N	1881928.66 E	3.000	-94.20	
1500.00	12.283	42.971	-1302.44	1489.44	40.03 N	81.24 W	202410.47 N	1881940.84 E	3.000	-82.50	
1595.88	15.000	47.000	-1395.61	1582.61	55.96 N	65.21 W	202426.40 N	1881956.87 E	3.000	-67.00	End of Build/Turn at 1595.88f.
1600.00	15.000	47.000	-1399.59	1586.59	56.69 N	64.43 W	202427.13 N	1881957.65 E	0.000	-66.25	
1700.00	15.000	47.000	-1496.18	1683.18	74.34 N	45.50 W	202444.78 N	1881976.58 E	0.000	-47.90	
1720.88	15.000	47.000	-1516.35	1703.35	78.02 N	41.55 W	202448.46 N	1881980.53 E	0.000	-44.07	Start Drop/Turn at 1720.88ft
1800.00	14.208	55.886	-1592.92	1779.92	90.45 N	26.02 W	202460.89 N	1881996.06 E	3.000	-28.96	
1900.00	13.727	68.178	-1689.98	1876.98	101.75 N	4.84 W	202472.19 N	1882017.24 E	3.000	-8.16	
2000.00	13.881	80.759	-1787.12	1974.12	108.09 N	18.02 E	202478.53 N	1882040.10 E	3.000	14.48	
2094.89	14.595	91.983	-1879.11	2066.11	109.50 N	41.21 E	202479.94 N	1882063.29 E	3.000	37.61	End of Drop/Turn at 2094.89ft
2100.00	14.595	91.983	-1884.06	2071.06	109.46 N	42.49 E	202479.90 N	1882064.57 E	0.000	38.90	

Proposal Report for West Pico - WP-807 - Plan 6 (02-Nov-05)

Measured Depth (ft)	Incl.	Grid Azim.	Sub-Sea Depth (ft)	Vertical Depth (ft)	Local Coordinates Northings (ft)	Local Coordinates Eastings (ft)	Global Coordinates Northings (ft)	Global Coordinates Eastings (ft)	Dogleg Rate (°/100ft)	Vertical Section	Comment
2200.00	14.595	91.983	-1980.83	2167.83	108.59 N	67.68 E	202479.03 N	1882089.76 E	0.000	64.10	
2300.00	14.595	91.983	-2077.60	2264.60	107.71 N	92.86 E	202478.15 N	1882114.94 E	0.000	89.30	
2400.00	14.595	91.983	-2174.38	2361.38	106.84 N	118.04 E	202477.28 N	1882140.12 E	0.000	114.50	
2500.00	14.595	91.983	-2271.15	2458.15	105.97 N	143.23 E	202476.41 N	1882165.31 E	0.000	139.69	
2600.00	14.595	91.983	-2367.92	2554.92	105.10 N	168.41 E	202475.54 N	1882190.49 E	0.000	164.89	
2700.00	14.595	91.983	-2464.69	2651.69	104.23 N	193.59 E	202474.67 N	1882215.67 E	0.000	190.09	
2800.00	14.595	91.983	-2561.47	2748.47	103.35 N	218.78 E	202473.79 N	1882240.86 E	0.000	215.29	
2900.00	14.595	91.983	-2658.24	2845.24	102.48 N	243.96 E	202472.92 N	1882266.04 E	0.000	240.49	
3000.00	14.595	91.983	-2755.01	2942.01	101.61 N	269.14 E	202472.05 N	1882291.22 E	0.000	265.69	
3100.00	14.595	91.983	-2851.79	3038.79	100.74 N	294.33 E	202471.18 N	1882316.41 E	0.000	290.88	
3200.00	14.595	91.983	-2948.56	3135.56	99.86 N	319.51 E	202470.30 N	1882341.59 E	0.000	316.08	
3300.00	14.595	91.983	-3045.33	3232.33	98.99 N	344.69 E	202469.43 N	1882366.77 E	0.000	341.28	
3400.00	14.595	91.983	-3142.11	3329.11	98.12 N	369.88 E	202468.56 N	1882391.96 E	0.000	366.48	
3500.00	14.595	91.983	-3238.88	3425.88	97.25 N	395.06 E	202467.69 N	1882417.14 E	0.000	391.68	
3513.30	14.595	91.983	-3251.75	3438.75	97.13 N	398.41 E	202467.57 N	1882420.49 E	0.000	395.03	Drop to Vertical at 3513.30ft
3600.00	11.994	91.983	-3336.12	3523.12	96.44 N	418.33 E	202466.88 N	1882440.41 E	3.000	414.96	
3700.00	8.994	91.983	-3434.44	3621.44	95.81 N	436.53 E	202466.25 N	1882458.61 E	3.000	433.18	
3800.00	5.994	91.983	-3533.57	3720.57	95.36 N	449.57 E	202465.80 N	1882471.65 E	3.000	446.22	
3900.00	2.994	91.983	-3633.25	3820.25	95.09 N	457.39 E	202465.53 N	1882479.47 E	3.000	454.05	
3999.79	0.000	0.000	-3733.00	3920.00	95.00 N	460.00 E	202465.44 N	1882482.08 E	3.000	456.66	End of Drop at 3999.79ft
4000.00	0.000	0.000	-3733.21	3920.21	95.00 N	460.00 E	202465.44 N	1882482.08 E	0.000	456.66	
4100.00	0.000	0.000	-3833.21	4020.21	95.00 N	460.00 E	202465.44 N	1882482.08 E	0.000	456.66	
4200.00	0.000	0.000	-3933.21	4120.21	95.00 N	460.00 E	202465.44 N	1882482.08 E	0.000	456.66	
4300.00	0.000	0.000	-4033.21	4220.21	95.00 N	460.00 E	202465.44 N	1882482.08 E	0.000	456.66	
4400.00	0.000	0.000	-4133.21	4320.21	95.00 N	460.00 E	202465.44 N	1882482.08 E	0.000	456.66	
4500.00	0.000	0.000	-4233.21	4420.21	95.00 N	460.00 E	202465.44 N	1882482.08 E	0.000	456.66	
4600.00	0.000	0.000	-4333.21	4520.21	95.00 N	460.00 E	202465.44 N	1882482.08 E	0.000	456.66	
4700.00	0.000	0.000	-4433.21	4620.21	95.00 N	460.00 E	202465.44 N	1882482.08 E	0.000	456.66	
4800.00	0.000	0.000	-4533.21	4720.21	95.00 N	460.00 E	202465.44 N	1882482.08 E	0.000	456.66	
4900.00	0.000	0.000	-4633.21	4820.21	95.00 N	460.00 E	202465.44 N	1882482.08 E	0.000	456.66	

Proposal Report for West Pico - WP-807 - Plan 6 (02-Nov-05)

Measured Depth (ft)	Incl.	Grid Azim.	Sub-Sea Depth (ft)	Vertical Depth (ft)	Local Coordinates Northings (ft)	Local Coordinates Eastings (ft)	Global Coordinates Northings (ft)	Global Coordinates Eastings (ft)	Dogleg Rate (°/100ft)	Vertical Section	Comment
5000.00	0.000	0.000	-4733.21	4920.21	95.00 N	460.00 E	202465.44 N	1882482.08 E	0.000	456.66	
5100.00	0.000	0.000	-4833.21	5020.21	95.00 N	460.00 E	202465.44 N	1882482.08 E	0.000	456.66	
5200.00	0.000	0.000	-4933.21	5120.21	95.00 N	460.00 E	202465.44 N	1882482.08 E	0.000	456.66	
5300.00	0.000	0.000	-5033.21	5220.21	95.00 N	460.00 E	202465.44 N	1882482.08 E	0.000	456.66	
5400.00	0.000	0.000	-5133.21	5320.21	95.00 N	460.00 E	202465.44 N	1882482.08 E	0.000	456.66	
5499.79	0.000	0.000	-5233.00	5420.00	95.00 N	460.00 E	202465.44 N	1882482.08 E	0.000	456.66	Kick-Off at 5499.79ft Target - XH a T0, Current Target
5500.00	0.021	93.403	-5233.21	5420.21	95.00 N	460.00 E	202465.44 N	1882482.08 E	10.000	456.66	
5600.00	10.021	93.403	-5332.70	5519.70	94.48 N	468.73 E	202464.92 N	1882490.81 E	10.000	465.39	
5700.00	20.021	93.403	-5429.16	5616.16	92.94 N	494.56 E	202463.38 N	1882516.64 E	10.000	491.27	
5800.00	30.021	93.403	-5519.66	5706.66	90.44 N	536.73 E	202460.88 N	1882558.81 E	10.000	533.49	
5900.00	40.021	93.403	-5601.45	5788.45	87.04 N	593.94 E	202457.48 N	1882616.02 E	10.000	590.79	
6000.00	50.021	93.403	-5672.04	5859.04	82.84 N	664.46 E	202453.28 N	1882686.54 E	10.000	661.41	
6036.65	53.686	93.403	-5694.68	5881.68	81.13 N	693.23 E	202451.57 N	1882715.31 E	10.000	690.22	End of Build at 6036.65ft
6070.56	53.686	93.403	-5714.76	5901.76	79.51 N	720.51 E	202449.95 N	1882742.59 E	0.000	717.53	Start Build/Turn at 6070.56ft
6100.00	56.629	93.477	-5731.58	5918.58	78.06 N	744.62 E	202448.50 N	1882766.70 E	10.000	741.68	
6200.00	66.627	93.698	-5779.04	5966.04	72.55 N	832.33 E	202442.99 N	1882854.41 E	10.000	829.52	
6300.00	76.626	93.888	-5810.52	5997.52	66.28 N	926.90 E	202436.72 N	1882948.98 E	10.000	924.25	
6339.79	80.604	93.958	-5818.37	6005.37	63.61 N	965.81 E	202434.05 N	1882987.89 E	10.000	963.22	End of Build/Turn at 6339.79ft
6400.00	80.604	93.958	-5828.20	6015.20	59.51 N	1025.07 E	202429.95 N	1883047.15 E	0.000	1022.58	
6500.00	80.604	93.958	-5844.53	6031.53	52.70 N	1123.49 E	202423.14 N	1883145.57 E	0.000	1121.18	
6600.00	80.604	93.958	-5860.85	6047.85	45.89 N	1221.92 E	202416.33 N	1883244.00 E	0.000	1219.77	
6700.00	80.604	93.958	-5877.18	6064.18	39.08 N	1320.34 E	202409.52 N	1883342.42 E	0.000	1318.36	
6800.00	80.604	93.958	-5893.50	6080.50	32.27 N	1418.76 E	202402.71 N	1883440.84 E	0.000	1416.95	
6839.79	80.604	93.958	-5900.00	6087.00	29.56 N	1457.92 E	202400.00 N	1883480.00 E	0.000	1456.18	Target - XH a T1, 50.00 Radius., Current Target
6900.00	80.604	93.958	-5909.83	6096.83	25.46 N	1517.18 E	202395.90 N	1883539.26 E	0.000	1515.55	
7000.00	80.604	93.958	-5926.16	6113.16	18.65 N	1615.61 E	202389.09 N	1883637.69 E	0.000	1614.14	
7100.00	80.604	93.958	-5942.48	6129.48	11.84 N	1714.03 E	202382.28 N	1883736.11 E	0.000	1712.73	
7200.00	80.604	93.958	-5958.81	6145.81	5.03 N	1812.45 E	202375.47 N	1883834.53 E	0.000	1811.33	
7300.00	80.604	93.958	-5975.13	6162.13	1.78 S	1910.88 E	202368.66 N	1883932.96 E	0.000	1909.92	
7400.00	80.604	93.958	-5991.46	6178.46	8.59 S	2009.30 E	202361.85 N	1884031.38 E	0.000	2008.51	

Proposal Report for West Pico - WP-807 - Plan 6 (02-Nov-05)

Measured Depth (ft)	Incl.	Grid Azim.	Sub-Sea Depth (ft)	Vertical Depth (ft)	Local Coordinates Northings (ft)	Local Coordinates Eastings (ft)	Global Coordinates Northings (ft)	Global Coordinates Eastings (ft)	Dogleg Rate (°/100ft)	Vertical Section	Comment
7500.00	80.604	93.958	-6007.79	6194.79	15.40 S	2107.72 E	202355.04 N	1884129.80 E	0.000	2107.10	
7600.00	80.604	93.958	-6024.11	6211.11	22.21 S	2206.15 E	202348.23 N	1884228.23 E	0.000	2205.70	
7700.00	80.604	93.958	-6040.44	6227.44	29.02 S	2304.57 E	202341.42 N	1884326.65 E	0.000	2304.29	
7800.00	80.604	93.958	-6056.77	6243.77	35.83 S	2402.99 E	202334.61 N	1884425.07 E	0.000	2402.88	
7900.00	80.604	93.958	-6073.09	6260.09	42.64 S	2501.41 E	202327.80 N	1884523.49 E	0.000	2501.47	
8000.00	80.604	93.958	-6089.42	6276.42	49.45 S	2599.84 E	202320.99 N	1884621.92 E	0.000	2600.07	
8100.00	80.604	93.958	-6105.74	6292.74	56.26 S	2698.26 E	202314.18 N	1884720.34 E	0.000	2698.66	
8200.00	80.604	93.958	-6122.07	6309.07	63.07 S	2796.68 E	202307.37 N	1884818.76 E	0.000	2797.25	
8300.00	80.604	93.958	-6138.40	6325.40	69.89 S	2895.11 E	202300.55 N	1884917.19 E	0.000	2895.84	
8400.00	80.604	93.958	-6154.72	6341.72	76.70 S	2993.53 E	202293.74 N	1885015.61 E	0.000	2994.44	
8500.00	80.604	93.958	-6171.05	6358.05	83.51 S	3091.95 E	202286.93 N	1885114.03 E	0.000	3093.03	
8600.00	80.604	93.958	-6187.37	6374.37	90.32 S	3190.37 E	202280.12 N	1885212.45 E	0.000	3191.62	
8700.00	80.604	93.958	-6203.70	6390.70	97.13 S	3288.80 E	202273.31 N	1885310.88 E	0.000	3290.22	
8800.00	80.604	93.958	-6220.03	6407.03	103.94 S	3387.22 E	202266.50 N	1885409.30 E	0.000	3388.81	
8900.00	80.604	93.958	-6236.35	6423.35	110.75 S	3485.64 E	202259.69 N	1885507.72 E	0.000	3487.40	
8983.59	80.604	93.958	-6250.00	6437.00	116.44 S	3567.92 E	202254.00 N	1885590.00 E	0.000	3569.81	Total Depth at 8983.59ft Target - XH a T2, 50.00 Radius., Current Target

All data is in Feet (US) unless otherwise stated. Directions and coordinates are relative to Grid North.
Vertical depths are relative to Well. Northings and Eastings are relative to Well.
Global Northings and Eastings are relative to NAD27 California State Planes, Zone V.

The Dogleg Severity is in Degrees per 100 feet (US).
Vertical Section is from Well and calculated along an Azimuth of 91.869° (Grid).

Based upon Minimum Curvature type calculations, at a Measured Depth of 8983.59ft.,
The Bottom Hole Displacement is 3569.81ft., in the Direction of 91.869° (Grid).

Proposal Report for West Pico - WP-807 - Plan 6 (02-Nov-05)

Comments

Measured Depth (ft)	Station Coordinates TVD (ft)	Northings (ft)	Eastings (ft)	Comment
65.00	65.00	0.00 N	0.00 E	Kick-Off at 65.00ft
198.33	198.23	3.29 S	3.29 W	End of Build at 198.33ft
348.33	347.86	10.69 S	10.69 W	Start Build/Turn at 348.33ft
581.07	579.17	15.48 S	34.64 W	End of Build/Turn at 581.07ft
856.07	850.78	13.23 S	77.60 W	Start Build/Turn at 856.07ft
1595.88	1582.61	55.96 N	65.21 W	End of Build/Turn at 1595.88ft
1720.88	1703.35	78.02 N	41.55 W	Start Drop/Turn at 1720.88ft
2094.89	2066.11	109.50 N	41.21 E	End of Drop/Turn at 2094.89ft
3513.30	3438.75	97.13 N	398.41 E	Drop to Vertical at 3513.30ft
3999.79	3920.00	95.00 N	460.00 E	End of Drop at 3999.79ft
5499.79	5420.00	95.00 N	460.00 E	Kick-Off at 5499.79ft
6036.65	5881.68	81.13 N	693.23 E	End of Build at 6036.65ft
6070.56	5901.76	79.51 N	720.51 E	Start Build/Turn at 6070.56ft
6339.79	6005.37	63.61 N	965.81 E	End of Build/Turn at 6339.79ft

Targets associated with this wellpath

Target Name		Target Entry Coordinates TVD (ft)	Northings (ft)	Eastings (ft)	Distance (ft)	Direction (°Grid)
XH a T0 (Point)		5420.00	95.00 N	460.00 E	469.71	78.331
	Mean Sea Level/Global Coordinates:	-5233.00	202465.44 N	1882482.08 E		
	Geographical Coordinates:		34.05572411° N	118.38796872° W		

Proposal Report for West Pico - WP-807 - Plan 6 (02-Nov-05)

Targets associated with this wellpath (Continued)

Target Name		TVD (ft)	Target Entry Coordinates Northings (ft)	Eastings (ft)	Distance (ft)	Direction (°Grid)
XH a T1 (Circle)		6087.00	29.56 N	1457.92 E	1458.22	88.838
	Mean Sea Level/Global Coordinates:	-5900.00	202400.00 N	1883480.00 E		
	Geographical Coordinates:		34.05555482° N	118.38467344° W		
	Target Radius:	50.00ft				
XH a T2 (Circle)		6437.00	116.44 S	3567.92 E	3569.82	91.869
	Mean Sea Level/Global Coordinates:	-6250.00	202254.00 N	1885590.00 E		
	Geographical Coordinates:		34.05517562° N	118.37770584° W		
	Target Radius:	50.00ft				

North Reference Sheet for West Pico - WP-807

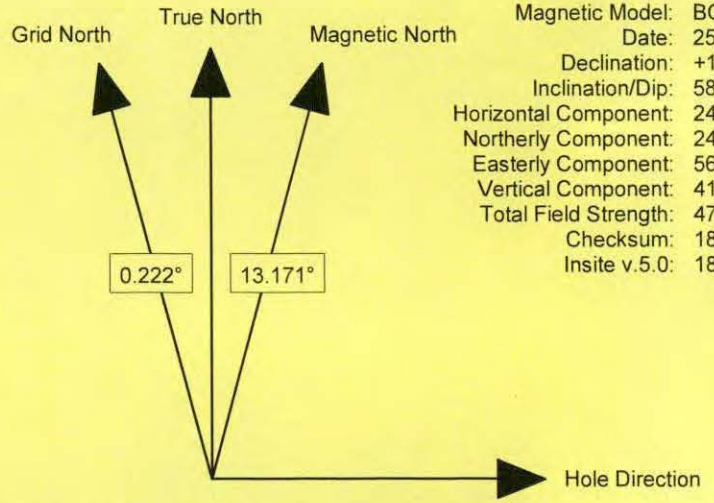
Coordinate System is NAD27 California State Planes, Zone V, US Foot
Source: Snyder, J.P., 1987, Map Projections - A Working Manual

Datum is North American Datum of 1927 (US48, AK, HI, and Canada)

Spheroid is Clarke - 1866
Equatorial Radius: 6378206.400m.
Polar Radius: 6356583.800m.
Inverse Flattening: 294.978698213901

Projection method is Lambert Conformal Conic Projection
Central Meridian is -118.000°
Longitude Origin: -118.000°
Latitude Origin: 33.500°
False Easting: 609600.00m
False Northing: 0.00m
Scale Reduction: 1.00000000

Grid Coordinates of Well: 202370.44 N, 1882022.08 E
Geographical Coordinates of Well: 34.05545817° N, 118.38948611° W
Surface Elevation of Well: 187.00ft
Grid Convergence at Surface is -0.222°
Magnetic Convergence at Surface is -13.393° (25 October, 2005)



Magnetic Model:	BGGM2004
Date:	25-Oct-05
Declination:	+13.171
Inclination/Dip:	58.909
Horizontal Component:	24752 nT
Northerly Component:	24100 nT
Easterly Component:	5640 nT
Vertical Component:	41045 nT
Total Field Strength:	47930 nT
Checksum:	1826196
Insite v.5.0:	1826196

Grid North is 0.222° West of True North (Grid Convergence)
Magnetic North is 13.171° East of True North (Magnetic Declination)
Magnetic North is 13.393° East of Grid North (Magnetic Convergence)

To convert a True Direction to a Grid Direction, Add 0.222 degrees
To convert a Magnetic Direction to a True Direction, Add 13.171 degrees
To convert a Magnetic Direction to a Grid Direction, Add 13.393 degrees

April 17, 2019

VIA EMAIL ONLY

Mr. Thomas McCollum, Agent
Pacific Coast Energy Company LP (B6127)
1555 Orcutt Hill Road
Orcutt, CA 93455
tmccollum@pceclp.com

Dear Mr. McCollum:

SAFETY SYSTEMS AND ENVIRONMENTAL LEASE INSPECTION, WEST PICO DRILL SITE, BEVERLY HILLS FIELD

On November 28 and 29, 2018, Division of Oil, Gas, and Geothermal Resources (DOGGR) engineers, Stacy Sor and Max Chavez-Segura, witnessed tests of the safety systems and conducted an environmental lease inspection of wells and facilities at Pacific Coast Energy Company LP, West Pico drill site in the Beverly Hills field.

Tested safety systems responded as designed. No violations were observed during the lease inspection.

If you have any questions, please contact Ellen Plaza Moser at (714) 816-6847 or ellen.moser@conservation.ca.gov.

Thank you for your cooperation.

Sincerely,

Digitally signed
by Suman Ghosh
Date: 2019.04.17
12:31:26 -07'00'

Suman Ghosh
Environmental and Facilities Unit Supervisor

Enclosure: Environmental Lease Inspection Data Sheets
West Pico Safety Systems Inspection Summary

cc: Los Angeles City Fire Dept. – lafdcupa@lacity.org
L.A. City Office of Petroleum & Natural Gas Admin. – uduak.ntuk@lacity.org
L.A. City Office of The City Attorney – Jessica.brown@lacity.org
Lease File

Lease Inspections

Operator: Pacific Coast Energy Company L **Active:** Y

Field: Beverly Hills

Lease Name: TW **Section:** 30 **Township:** 01S **Range:** 14W

Date	Well #	API #	Tbg#	Well Type	Latitude Longitude	Tubing Pressure (MASP)	Casing Pressure	Deficiencies										Notes
								Status	Well Sign	enclosures	Well Head	Guages	Cellar	Leak	Waste/Refuse	Maintenance	Operations Sump	Access	
11-28-18	1	037-20971	01	OG I ✓	34.05547333 -118.39020538														
Total Wells:	1																		

Operator: Pacific Coast Energy Company L **Active:** Y

Field: Beverly Hills

Lease Name: West Pico **Section:** 30 **Township:** 01S **Range:** 14W

Date	Well #	API #	Tbg#	Well Type	Latitude Longitude	Tubing Pressure (MASP)	Casing Pressure	Deficiencies										Notes
								Status	Well Sign	enclosures	Well Head	Guages	Cellar	Leak	Waste/Refuse	Maintenance	Operations Sump	Access	
11-28-18	1	037-00995		OG A ✓ HRP	34.055542225 -118.390531275														
	10	037-20073	01	OG A SI ESP	34.055556113 -118.390473526														Permit pending CTI
	11	037-20105	01	OG A SI	34.055557955 -118.390497815														
	12	037-20146		OG A ✓ ESP	34.055560289 -118.390521824														

Lease Inspections

Operator: Pacific Coast Energy Company L **Active:** Y

Field: Beverly Hills

Lease Name: West Pico **Section:** 30 **Township:** 01S **Range:** 14W

Date	Well #	API #	Tbg#	Well Type	Latitude Longitude	Tubing Pressure (MASP)	Casing Pressure	Deficiencies										Notes
								Status	Well Sign	enclosures	Well Head	Guages	Cellar	Leak	Waste/Refuse	Maintenance	Operations Sump	Access	
11-28-2018	13	037-20189		OG A SI	34.055556683 -118.390429486														Waiting on pump charge Down Thurs.
	14	037-20212		OG A ✓ HRP	34.055555181 -118.390361287														
	15	037-20252		OG A ✓ HRP	34.055538725 -118.39036386														
	16	037-20357	01	OG I ✓	34.055538387 -118.390349436														
	17	037-20382		OG A SI	34.055551737 -118.390344089														
	18	037-20434		OG A ✓ HRP	34.055537967 -118.390331307														
	19	037-20510		OG A ✓ HRP	34.055551766 -118.390333238														
	2	037-00996	01	OG A ✓ HRP	34.055541529 -118.390509445														
	20	037-20552		OG A HRP SI	34.055551635 -118.390317876														
	21	037-20554	01	OG A ✓ ESP	34.055537 -118.390312185														
	22	037-20822	01	OG I ✓	34.05555725 -118.39015198														
	24	037-20886		OG A ✓ HRP	34.055549455 -118.390252694														
	25	037-20895		OG A HRP SI	34.055541 -118.390163981														
	26	037-20926	01	WF A ✓	34.05553818 -118.3901825	610 741.28	Ø												7-25-18 calib. 142 BPD
	27	037-20950		OG I ✓	34.05555344 -118.39038086														

Lease Inspections

Operator: Pacific Coast Energy Company L **Active:** Y

Field: Beverly Hills

Lease Name: West Pico **Section:** 30 **Township:** 01S **Range:** 14W

Date	Well #	API #	Tbg#	Well Type	Latitude Longitude	Tubing Pressure (MASP)	Casing Pressure	Deficiencies										Notes
								Status	Well Sign	enclosures	Well Head	Guages	Cellar	Leak	Waste/Refuse	Maintenance	Operations Sump	Access	
11-28-18	28	037-21006		OG A ✓ HRP	34.05555234 -118.390233733														
	29	037-21019	01	WF A SI	34.055555976 -118.390167752		Ø												Lines disc.
	3	037-00997		OG A HRP - SI	34.055539913 -118.390482169														
	30	037-21035	01	WF A ✓	34.05553818 -118.39029694	993.648 910	Ø												7-25-18 calif. 535 BPD
	30	037-21035	02	WF A	34.05553818 -118.39029694	1124.374													Only injecting into Hauser zone (Miocene)
	31	037-21050		OG A ✓ ESP	34.055537822 -118.390228166														
	32	037-21061		OG A ✓ ESP	34.05553764 -118.390211316														
	33	037-21068		OG I ✓	34.055552993 -118.39018426														
	34	037-21087		OG A ✓ HRP	34.055552593 -118.390272471														
	35	037-21121		OG I ✓ SI	34.05553818 -118.39024353														
	36	037-21169		OG A ✓ HRP	34.055550079 -118.390300394														
	37	037-21188		OG A ✓ HRP	34.055555503 -118.390576276														
	38	037-21239		OG ✓ SI	34.055536378 -118.390281614														Was active - remove pu due to rig act.
	39	037-21273		OG A ✓ ESP	34.055553594 -118.390286262														
	4	037-00998		OG A ✓ HRP	34.055539217 -118.390460715														

Lease Inspections

SEA-1
API# 037-20908
Attached to Packard but physically @ Pico DS.

Operator: Pacific Coast Energy Company L **Active:** Y

Field: Beverly Hills

Lease Name: West Pico **Section:** 30 **Township:** 01S **Range:** 14W

Date	Well #	API #	Tbg#	Well Type	Latitude Longitude	Tubing Pressure (MASP)	Casing Pressure	Deficiencies										Notes
								Status	Well Sign	enclosures	Well Head	Guages	Cellar	Leak	Waste/Refuse	Maintenance	Operations Sump	Access	
11-28-18	40	037-21284		OG A ✓ ESP	34.05553836 -118.390194646														
	41	037-21324		OG A ✓ HRP	34.055540801 -118.39056403														
	42	037-21336	01	OG I ✓	34.055554076 -118.390590887														
	43	037-21392		OG A ✓ ESP	34.055553074 -118.390218915														
	44	037-21950	01	OG I ✓	34.055469896 -118.390313473														was dual completion as WF + gas injection
	45	037-21996		OG A SI HRP	34.055556825 -118.390549165														
	5	037-00999		OG A SI	34.055539401 -118.390387474														
	58	037-26615		OG A ✓	34.0554683 -118.3903975														
	59	037-27133		OG I ✓	34.05546951 -118.39041138														Hydraulic rod pump
	6	037-01051		OG A SI	34.055539588 -118.390413087														Rig on well
	7	037-00107		OG I ✓	34.05553818 -118.39043427														
	8	037-20013		OG A SI	34.055557389 -118.390402923														
	9	037-20040		OG I ✓	34.05555725 -118.39044952														
Total Wells:	46																		

Lease Inspections

Operator: Pacific Coast Energy Company L **Active:** Y

Field: Beverly Hills

Lease Name: JW **Section:** 30 **Township:** 01S **Range:** 14W

Date	Well #	API #	Tbg#	Well Type	Latitude Longitude	Tubing Pressure (MASP)	Casing Pressure	Deficiencies											Notes
								Status	Well Sign	enclosures	Well Head	Guages	Cellar	Leak	Waste/Refuse	Maintenance	Operations Sump	Access	
11-28-18	3	037-21113	01	OG I ✓	34.055472218 -118.390366181														
Total Wells:	1																		

Operator: Pacific Coast Energy Company L **Active:** Y

Field: Beverly Hills

Lease Name: KW **Section:** 30 **Township:** 01S **Range:** 14W

Date	Well #	API #	Tbg#	Well Type	Latitude Longitude	Tubing Pressure (MASP)	Casing Pressure	Deficiencies											Notes
								Status	Well Sign	enclosures	Well Head	Guages	Cellar	Leak	Waste/Refuse	Maintenance	Operations Sump	Access	
11-28-18	5	037-21133	01	OG I ✓	34.055473764 -118.390349105														
Total Wells:	1																		

Lease Inspections

9101
9151
-CO_2 suppression
Trigger manual system.

Operator: Pacific Coast Energy Company L **Active:** Y

Field: Beverly Hills

Lease Name: HW **Section:** 30 **Township:** 01S **Range:** 14W

Date	Well #	API #	Tbg#	Well Type	Latitude Longitude	Tubing Pressure (MASP)	Casing Pressure	Deficiencies											Notes
								Status	Well Sign	enclosures	Well Head	Guages	Cellar	Leak	Waste/Refuse	Maintenance	Operations Sump	Access	
11-28-18	10	037-21994	01	OG A SI ✓	34.055469939 -118.390391882														
Total Wells:	1																		

Operator: Pacific Coast Energy Company L **Active:** Y

Field: Beverly Hills

Lease Name: IW **Section:** 30 **Township:** 01S **Range:** 14W

Date	Well #	API #	Tbg#	Well Type	Latitude Longitude	Tubing Pressure (MASP)	Casing Pressure	Deficiencies											Notes
								Status	Well Sign	enclosures	Well Head	Guages	Cellar	Leak	Waste/Refuse	Maintenance	Operations Sump	Access	
11-28-18	6	037-21160		OG I ✓	34.055468746 -118.390379361														
Total Wells:	1																		

Lease Inspections

Operator: Pacific Coast Energy Company L **Active:** Y

Field: Beverly Hills

Lease Name: LW **Section:** 30 **Township:** 01S **Range:** 14W

Date	Well #	API #	Tbg#	Well Type	Latitude Longitude	Tubing Pressure (MASP)	Casing Pressure	Deficiencies										Notes
								Status	Well Sign	enclosures	Well Head	Guages	Cellar	Leak	Waste/Refuse	Maintenance	Operations Sump	Access	
11-28-18	11	037-21995		OG I ✓	34.055470731 -118.390328247														
Total Wells:	1																		

Operator: Pacific Coast Energy Company L **Active:** Y

Field: Beverly Hills

Lease Name: NW **Section:** 30 **Township:** 01S **Range:** 14W

Date	Well #	API #	Tbg#	Well Type	Latitude Longitude	Tubing Pressure (MASP)	Casing Pressure	Deficiencies										Notes
								Status	Well Sign	enclosures	Well Head	Guages	Cellar	Leak	Waste/Refuse	Maintenance	Operations Sump	Access	
11-28-18	4	037-21145	01	OG I ✓	34.055470709 -118.390297146														
Total Wells:	1																		

Lease Inspections

Operator: Pacific Coast Energy Company L **Active:** Y

Field: Beverly Hills

Lease Name: OW **Section:** 30 Township: 01S **Range:** 14W

Date	Well #	API #	Tbg#	Well Type	Latitude Longitude	Tubing Pressure (MASP)	Casing Pressure	Deficiencies											Notes
								Status	Well Sign	enclosures	Well Head	Guages	Cellar	Leak	Waste/Refuse	Maintenance	Operations Sump	Access	
11-28-18	8	037-21211	01	OG A SI	34.055472369 -118.390281185														Needs pumpcharge
Total Wells:	1																		

Operator: Pacific Coast Energy Company L **Active:** Y

Field: Beverly Hills

Lease Name: PW **Section:** 30 Township: 01S **Range:** 14W

Date	Well #	API #	Tbg#	Well Type	Latitude Longitude	Tubing Pressure (MASP)	Casing Pressure	Deficiencies											Notes
								Status	Well Sign	enclosures	Well Head	Guages	Cellar	Leak	Waste/Refuse	Maintenance	Operations Sump	Access	
11-28-18	9	037-21235	01	OG A ESP ✓	34.05547333 -118.39025879														
Total Wells:	1																		

Lease Inspections

#806 - conductor only

Operator: Pacific Coast Energy Company L **Active:** Y

Field: Beverly Hills

Lease Name: RW **Section:** 30 **Township:** 01S **Range:** 14W

Date	Well #	API #	Tbg#	Well Type	Latitude Longitude	Tubing Pressure (MASP)	Casing Pressure	Deficiencies											Notes
								Status	Well Sign	enclosures	Well Head	Guages	Cellar	Leak	Waste/Refuse	Maintenance	Operations Sump	Access	
11-28-18	2	037-21098	01	WF A ✓	34.05547714 -118.3902359	1109.215 940	Ø												3250 BPD
Total Wells:	1																		

Operator: Pacific Coast Energy Company L **Active:** Y

Field: Beverly Hills

Lease Name: SW **Section:** 30 **Township:** 01S **Range:** 14W

Date	Well #	API #	Tbg#	Well Type	Latitude Longitude	Tubing Pressure (MASP)	Casing Pressure	Deficiencies											Notes
								Status	Well Sign	enclosures	Well Head	Guages	Cellar	Leak	Waste/Refuse	Maintenance	Operations Sump	Access	
11-28-18	7	037-21181	01	WF A ✓	34.05547333 -118.39022064	1008.481 960	Ø												1470 BPD
Total Wells:	1																		

PACIFIC COAST ENERGY COMPANY
WEST PICO SAFETY'S

	CHECKED	COMMENTS
TEST # 1 HIGH LEVEL	✓	
TEST # 2 HIGH LEVEL	✓	
GROSS # 1 HIGH LEVEL	✓	
GROSS # 2 HIGH LEVEL	✓	
GROSS # 3 HIGH LEVEL	✓	
GROSS # 4 HIGH LEVEL	✓	
H. T. # 1 HIGH LEVEL	✓	
H. T. # 2 HIGH LEVEL	✓	
H. T. # 3 HIGH LEVEL	✓	
H. T. # 1 HIGH PRESSURE	✓	
H. T. # 2 HIGH PRESSURE	✓	
H. T. # 3 HIGH PRESSURE	✓	
LOWER CONTAINMENT HIGH LEVEL	✓	
UPPER CONTAINMENT HIGH LEVEL	✓	
OIL COINTAINMENT HIGH LEVEL	✓	
HIGH LEVEL CLARIFER TANK	✓	
HIGH LEVEL PRODUCTION TANK	✓	
HIGH LEVEL CLEAN UP TANK	✓	
HIGH LEVEL 320 TANK	✓	
HIGH PRESSURE SALES GAS LINE	150psi ✓	LOW PRESSURE @ 100 PSI ✓
HIGH PRESSURE OIL SHIPPING LINE	400psi ✓	
HIGH LEVEL LACT TANK (WEST)	✓	
LOW LEVEL LACT TANK (WEST)	✓	
HIGH LEVEL LACT TANK (EAST)	✓	
LOW LEVEL LACT TANK (EAST)	✓	
HIGH LEVEL VENT SCRUBBER	✓	
~~HIGH HIGH LEVEL LACT TANK (W)~~	✓	
~~HIGH HIGH LEVEL LACT TANK (E)~~	✓	

WITNESSED BY Vincent

DOG REPRESENTATIVE P. Stank Mgl Chavez

DATE 11/28/18

PACIFIC COAST ENERGY COMPANY
WEST PICO SAFETY'S

	CHECKED	COMMENTS
TEST # 1 HIGH LEVEL	✓	
TEST # 2 HIGH LEVEL	✓	
GROSS # 1 HIGH LEVEL	✓	
GROSS # 2 HIGH LEVEL	✓	
GROSS # 3 HIGH LEVEL	✓	
GROSS # 4 HIGH LEVEL	✓	
H. T. # 1 HIGH LEVEL	✓	
H. T. # 2 HIGH LEVEL	✓	
H. T. # 3 HIGH LEVEL	✓	
H. T. # 1 HIGH PRESSURE	✓	
H. T. # 2 HIGH PRESSURE	✓	
H. T. # 3 HIGH PRESSURE	✓	
LOWER CONTAINMENT HIGH LEVEL	✓	
UPPER CONTAINMENT HIGH LEVEL	✓	
OIL COINTAINMENT HIGH LEVEL	✓	
HIGH LEVEL CLARIFER TANK	✓	
HIGH LEVEL PRODUCTION TANK	✓	
HIGH LEVEL CLEAN UP TANK	✓	
HIGH LEVEL 320 TANK	✓	
HIGH PRESSURE SALES GAS LINE	✓	
HIGH PRESSURE OIL SHIPPING LINE	✓	
HIGH LEVEL LACT TANK (WEST)	✓	
LOW LEVEL LACT TANK (WEST)	✓	
HIGH LEVEL LACT TANK (EAST)	✓	
LOW LEVEL LACT TANK (EAST)	✓	
HIGH LEVEL VENT SCRUBBER	✓	

WITNESSED BY _____

DOG REPRESENTATIVE _____

DATE 11/27/16

	CHECKED	LOW	HIGH	COMMENTS
SOUTH CELLAR				
IW # 6	✓	✓	✓	A1 low alarm @ 25% >all sensors
KW # 5	✓	✓	✓	A2 High alarm @ 45% /
OW # 8	✓	✓	✓	
RW # 2	✓	✓	✓	
NORTH CELLAR				
WP # 22	✓	✓	✓	
WP # 36	✓	✓	✓	
WP # 42	✓	✓	✓	
WP # 1	✓	✓	✓	
WP # 15	✓	✓	✓	
COMPRESSOR BLDG				
COMPRESSOR # V/R	✓	✓	✓	
COMPRESSOR # 1	✓	✓	✓	
COMPRESSOR # 4	✓	✓	✓	
Gen.	✓	✓	✓	
ROOF				
PRV VALVE CLEAN UP TANK	✓	✓	✓	
PRV VALVE L.A.C.T. TANK	✓	✓	✓	
VENT STACK	✓	✓	✓	
PUMP ROOM				
WEST	✓	✓	✓	
CENTER	✓	✓	✓	
EAST	✓	✓	✓	
GAS PIPELINE				
ANNULUS	✓	✓	✓	
DRILLING				
METHANE GAS	✓	✓	✓	
H2S	✓	✓	N/A	

WITNESSED BY _____

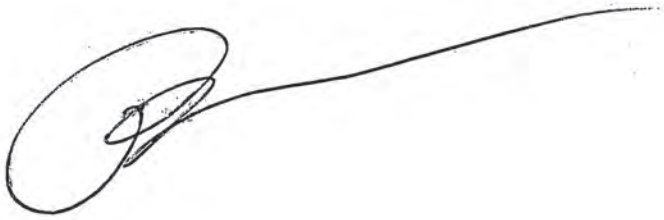
DOG REPRESENTATIVE _____ Max Chavez

DATE 11/29/18

Rig Detectors

Rig	LEL	✓
	LEL	✓
	H2S	✓
Mud Room	LEL	✓
	H2S	✓

11/29/18



Support Bay CO Detector

1	Mud Room Tunnel	✓
2	East	✓
3	E / Center	✓
4	W / Center	✓
5	West	✓

11/29/18

Martinez, Valerie

From:	Ung, June
Sent:	Thursday, January 19, 2012 9:18 AM
To:	Bynum, Carolyn; Hatfield, Sheila; Kirby Cook, Tina; Luft, Jennifer; Martinez, Valerie; Streiff, Jolene
Cc:	Blaine, Maria; Clark, Sue C.; Ellison, Burt; Glinzak, Mike; Kendall, Victoria; Macias, Addy
Subject:	Agent Database Update

Operator Name Change (same agent)

From BreitBurn Energy Company, LP to Pacific Coast Energy Company LP (B6127) – Districts 1 and 3

June Ung
Bond Administrator
Department of Conservation
Division of Oil, Gas, and Geothermal Resources
801 K Street, MS 20-20
Sacramento, CA 95814-3530
(916) 323-1788

Operator name change

Breitburn Energy Company, LP

To

Pacific Coast Energy Company L.P.

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

CHECK LIST – RECORDS RECEIVED AND WELL STATUS

Company:	**Breitburn Energy Company**	Well: **"West Pico" 59**
API#:	**037-27133**	Sec. **30**, T. **1S**, R.**14W**. S. B. B. & M.
County:	**Los Angeles**	Field: **Beverly Hills**

RECORDS RECEIVED	DATE
Well Summary (Form OG100)	
History (Form OG103)	**06/02/2011**
Core Record (Form OG101)	
Directional Survey	
Sidewall Samples	
Date final records received.	
Electric Logs:	
Other:	

STATUS

Producing	☒	Drilling	☐
Abandoned	☐	Idle	☐
Reabandoned	☐	Other	☐

WELL TYPE

Oil	☒	Waterflood	☐
Gas	☐	Water Disposal	☐
Water Source	☐	Cyclic Steam	☐
Observation	☐	Steam Flood	☐
Exploratory	☐	Fire Flood	☐
Dry Hole	☐	Other	☐

EFFECTIVE DATE: 5/17/2011

REMARKS:

	ENGINEERS CHECK LIST	CLERICAL CHECK LIST
☒	Summary, History & Core Record (Dupl.)	Location change
☐	Electric Log	Elevation change
☒	Operator's Name	Form OGD121
☒	Signature	Form OGD150b (Release of Bond)
☒	Well Designation	Duplicate logs to archives
☐	Location	Notice of Records Due
☐	Elevation	EDP 7-5-11 vm
☒	Notices	District Date Base
☐	"T" Reports	Final Letter (OG159)
☐	Casing Record	Update Center 7-5-11 vm
☐	Plugs	
☐	Directional Survey	
☐	Production/Injection (FAP Codes: 054 03 00)	
☐	E Well on Prod., enter EDP	**FIELD CHECK LIST**
☐	Surface Inspection Required	Date Surface Inspection Completed:
☐	Surface inspection Waived (Island)	Other:
☐	Well site restoration deferred (common cellar)	
☐	Final Letter Required AB: ☐ REAB: ☐	
☐	Other:	

RECORDS NOT APPROVED	RECORDS APPROVED SCH 6/17/11
(Reason:)	*(Signature)*
	RELEASE BOND
	Date Eligible
	(Use date last needed records received.)
	MAP AND MAP BOOK

N/C

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator BreitBurn Energy Company, LP Field Beverly Hills County Los Angeles

Well "West Pico" 59 Sec. 30 T. 1S R. 14W S.B. B.&M.

A.P.I. No. 037-27133 Name Brad Pierce (Person submitting report) Title Agent (President, Secretary, or Agent)

Date 6/1/2011 (Month, day, year)

Signature Brad R. Pierce

Address 515 S. Flower St., Suite 4800 Los Angeles, CA 90071 Telephone Number (213) 225-5900

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Date	Rework (perforate)
5/2/2011	Held safety meeting with crew and serviced rig. Rigged up and put well on vapor recovery. Installed V-door and extension. Nipple down production tree. Pulled and stood back original cylinder. Pulled rods and 2-1/4" plunger, all rods looked good. Nipple up and function tested BOPE. Pulled and stood back casing shuck and started pulling tubing. Secure well. End of tour.
5/3/2011	Held safety meeting with crew and serviced rig. Completed pulling tubing and pump. Laid down pump and gas anchor, found 4' of fine sand in gas anchor. Picked up and ran 5", 18# 1/8" under drift scraper. Below 2-7/8" bumper sub and original 2-7/8" A-95 and 8rd tubing. Tagged fill at 8,396', bottom at 8,468'. Pulled scraper above 5" liner. Secured well. End of tour.
5/4/2011	Held safety meeting with crew and serviced rig. Lowered scraper to 8,398', rigged up hoses and mud pump. Circulated well clean with 320 bbls of lease water. Recovered small amount of scale and about 10 bbls of oil. Pulled scraper and tubing to 600'. Secured well. End of tour.
5/5/2011	Held safety meeting with crew and serviced rig. Pulled kill string and laid down scraper. Installed cross-over spool and shot flange on top of BOP. Held safety meeting prior to rigging up perforators. Rigged up Tiger wireline to perforate with 2-3/8" 6SPF, 60 DEG, SDP-3375-311NT3 25 gram Hero guns as per program. Perforated the following intervals per program: 7,768' – 7,773', 7,799' – 7,805', 7,911' – 7,917', 7,926' – 7,929', 7,990' – 7,998', 8,071' – 8,077', 8,108' – 8,112', 8,159' – 8,165', 8,211' – 8,225', 8,277' – 8,284', and 8,295' – 8,303'. Rigged down Tiger wireline. Picked up and ran 5", 18# scraper to 600'. Secured well. End of tour.
5/6/2011	Held safety meeting with crew and serviced rig. Completed running tubing and 5", 18# scraper. Tagged fill at 8,380', 18' higher than 2 days before. No restrictions. Pulled tubing and scraper to 600'. Secured well. End of tour.
5/9/2011	Held safety meeting with crew and serviced rig. Pulled tubing and laid down scraper. Ran in hole with 45% cut collar below original tubing and tagged fill at 8,380'. Filled casing with 260 bbls of lease water. Recovered about 20 barrels of oil. Cleaned out fine sand and small amount of scale to bottom at 8,439'. Circulated hole clean and started pulling tubing. Secured well. End of tour.
5/10/2011	Held safety meeting with crew and serviced rig. Completed pulling original tubing. Installed circulating head on top of BOP. Picked up and ran 5" acid wash cups below original 2-7/8" A-95 and 8rd tubing to 6,600' above 5" liner. Secured well. End of tour.
5/11/2011	Held safety meeting with crew and serviced rig. Lowered and set 5" wash cups at 7,760'. Rigged up MTS acidizing services pumping equipment. Held safety meeting with MTS and BreitBurn crew. Mixed and pumped acid as per program. Washed perforations from 7,760' to 8,307' using McGraw wash cups. Displaced tubing with 45 bbls of 5% NH4CL water and dumped remaining 5% NH4CL water down casing – no pressure. Rigged down and released MTS pump services. Dropped knock out bar to drain tubing. Pulled tubing and cups above liner at 6,500'. Secured well. End of tour.
5/12/2011	Held safety meeting with crew and serviced rig. Pulled tubing and McGraw wash cups. Laid down and released wash cups. Removed circulating head. Picked up and ran replacement 2-1/2" x 2-1/4" Black Gold. Pumped water below original A-95 and 8rd 2-7/8" tubing. Installed and landed casing shuck with pump intake at 8,231'. Secured well. End of tour.
5/13/2011	Held safety meeting with crew and serviced rig. Installed skid beams and moved rig to WP59 south cellar from WP26. Found well not pumping due to pump sticking. Nipple down production tree and stroked pump with rig for 2 hours – good pump action. Nipple up production tree and return to production. End of tour.
5/16/2011	Held safety meeting with crew and serviced rig. Installed skid beams and moved rig to WP-59 south cellar. Found well not pumping due to pump sticking. Nipple down production tree and stroked pump with rig for 2 hours – good pump action. Nipple up production tree and return to production. End of tour.

REC'D JUN 02 2011 67

5/17/2011	Held safety meeting with crew and serviced rig. Well pump continued sticking. Nipple down production tree. Stroked pump with rig for 2 hours, good pump action. Nipple up production tree. Return to production. Rigged down. Prepared rig for move. End of tour.

Printed on recycled paper.

SUBMIT IN DUPLICATE

REC'D JUN 02 2011 66

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

No. P 111-0214

054 (Field Code)

03 (Area Code)

00 (New Pool Code)

00 (Old Pool Code)

PERMIT TO CONDUCT WELL OPERATIONS

CRITICAL WELL

Brad Pierce, Agent
BREITBURN ENERGY COMPANY L. P.
515 S. Flower St., Suite 4800
Los Angeles, CA 90071

Cypress, California
April 20, 2011

Your proposal to **rework (perforate)** well **"West Pico" 59**, A.P.I. No. **037-27133**, Section **30**, T. **1S**, R. **14W**, **S.B.** B. & M., **Beverly Hills** Field, **East** area, **Hauser** pool, **Los Angeles** County, dated **04/18/2011**, received **04/17/2011** has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED:

1. Blowout prevention equipment, as defined by this Division's publication No. M07, shall be installed and maintained in operating condition and meet the following minimum requirements:
   a. Class **II2M**, with hydraulic controls, for **downhole** operations.
   b. A **II2M lubricator** or **pack off**, for perforating operations.
2. Hole fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
3. No program changes are made without prior Division approval.
4. **THIS DIVISION SHALL BE NOTIFIED TO:**
   a. Inspect the installed blowout prevention equipment prior to commencing downhole operations.
   b. Witness a production water shutoff test within **60** days after the well is placed on production.

NOTE:

1. A crew drill may be required at the time of the blowout prevention equipment inspection.
2. The Division routinely monitors monthly well production data and if anomalous water production is indicated, remedial action will be ordered.

EPM:epm

cc: Update
EDP

BLANKET BOND

Engineer: John Huff

Phone: 714/816-6847

Elena M. Miller
State Oil and Gas Supervisor

By _____
For M. Ali Khan, *Acting District Deputy*

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended. Issuance of this permit does not affect the Operator's responsibility to comply with other applicable state, federal and local laws, regulations and ordinances.

OG 111

65

OG/ SCH

P# 111-0214

NATURAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

FOR DIVISION USE ONLY			
	Forms		
Bond	OGD114	OGD121	
LB	4-23-11	4-19-11	LJ

NOTICE OF INTENTION TO REWORK / REDRILL WELL

Detailed instructions can be found at: www.conservation.ca.gov/dog/

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to rework ☒ / redrill ☐ (Check one) well "West Pico" #59, API No. 037-27133,

Sec. 30, T. 1S, R. 14W, SB B.&M., Beverly Hills Field, Los Angeles County.

The complete casing record of the well (present hole), including plugs and perforations, is as follows: (Attach wellbore schematics diagram also.)

Please see Attachment #1. Also, see attached wellbore schematics of the present condition and proposed condition.

The total depth is: 8,460 feet. The effective depth is: 8,397 feet.

Present completion zone(s): Hauser (Name). Anticipated completion zone(s): Hauser (Name).

Present zone pressure: 500 psi. Anticipated/existing new zone pressure: 500 psi

Is this a critical well as defined in the California Code of Regulations, Title 14, Section 1720(a) (see next page)? Yes☒ No☐

For redrilling or deepening only, is a California Environmental Quality Act (CEQA) document required by a local agency? Yes☐ No☒ If yes, see next page.

The proposed work is as follows: (A complete program is preferred and may be attached.)

Please see attached complete program.

If well is to be redrilled or deepened, show proposed coordinates (from surface location) and true vertical depth at total depth: ____ feet ____ (Direction) and ____ feet ____ (Direction) Estimated true vertical depth: ____

Will the Field and/or Area change? Yes☐ No☐ If yes, specify New Field: ____ New Area: ____

The Division must be notified immediately of changes to the proposed operations. Failure to provide a true and accurate representation of the well and proposed operations may cause rescission of the permit.

Name of Operator			
BreitBurn Energy Company, LP			
Address: 515 South Flower Street, Suite 4800		City/State: Los Angeles / CA	Zip Code: 90071
Name of Person Filing Notice: Brad Pierce	Telephone Number: (213) 225-5900 ext. 258	Signature: Brad R Pierce	Date: 4/18/2011
Individual to contact for technical questions: Brad Pierce	Telephone Number: (213) 225-5900 ext. 258	E-Mail Address: bpierce@breitburn.com	

This notice and an indemnity or cash bond must be filed, and approval given, before the workover begins. (See the reverse side for bonding information.) If operations have not commenced within one year of the Division's receipt of the notice, this notice will be considered cancelled.

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INFORMATION FOR COMPLIANCE WITH THE CALIFORNIA ENVIRONMENTAL QUALITY ACT OF 1970 (CEQA)

If an environmental document has been prepared by the lead agency, submit a copy of the ***Notice of Determination*** or ***Notice of Exemption*** with this notice. Please note that a CEQA determination by a local jurisdiction, if required, must be complete, or the Division may not issue a permit.

CRITICAL WELL DEFINITION

As defined in the California Code of Regulations, Title 14, Section 1720 (a), "Critical well" means a well within:

(1) 300 feet of the following:
  (A) Any building intended for human occupancy that is not necessary to the operation of the well; or
  (B) Any airport runway.
(2) 100 feet of the following:
  (A) Any dedicated public street, highway or the nearest rail of an operating railway that is in general use;
  (B) Any navigable body of water or watercourse perennially covered by water;
  (C) Any public recreational facility such as a golf course, amusement park, picnic ground, campground or any other area of periodic high-density population; or
  (D) Any officially recognized wildlife preserve.

WELL OPERATIONS REQUIRING BONDING

1. Drilling, redrilling, or deepening any well.
2. Milling out or removing a casing or liner.
3. Running and cementing casing or tubing.
4. Running and cementing liners and inner liners.
5. Perforating casing in a previously unperforated interval for production, injection, testing, observation, or cementing purposes.
6. Drilling out any type of permanent plug.
7. Reentering an abandoned well having no bond.

This form may be printed from the DOGGR website at www.conservation.ca.gov/dog/

Notice of Intention to Rework/Redrill Well:

Attachment #1:

Company: BreitBurn Energy Company, LP
Field: Beverly Hills
Lease: West Pico
Well: #59
API#: 037-27133
Date: 4/18/2011

The complete casing record of the well (present hole), including plugs and perforations, is as follows:

Casing:

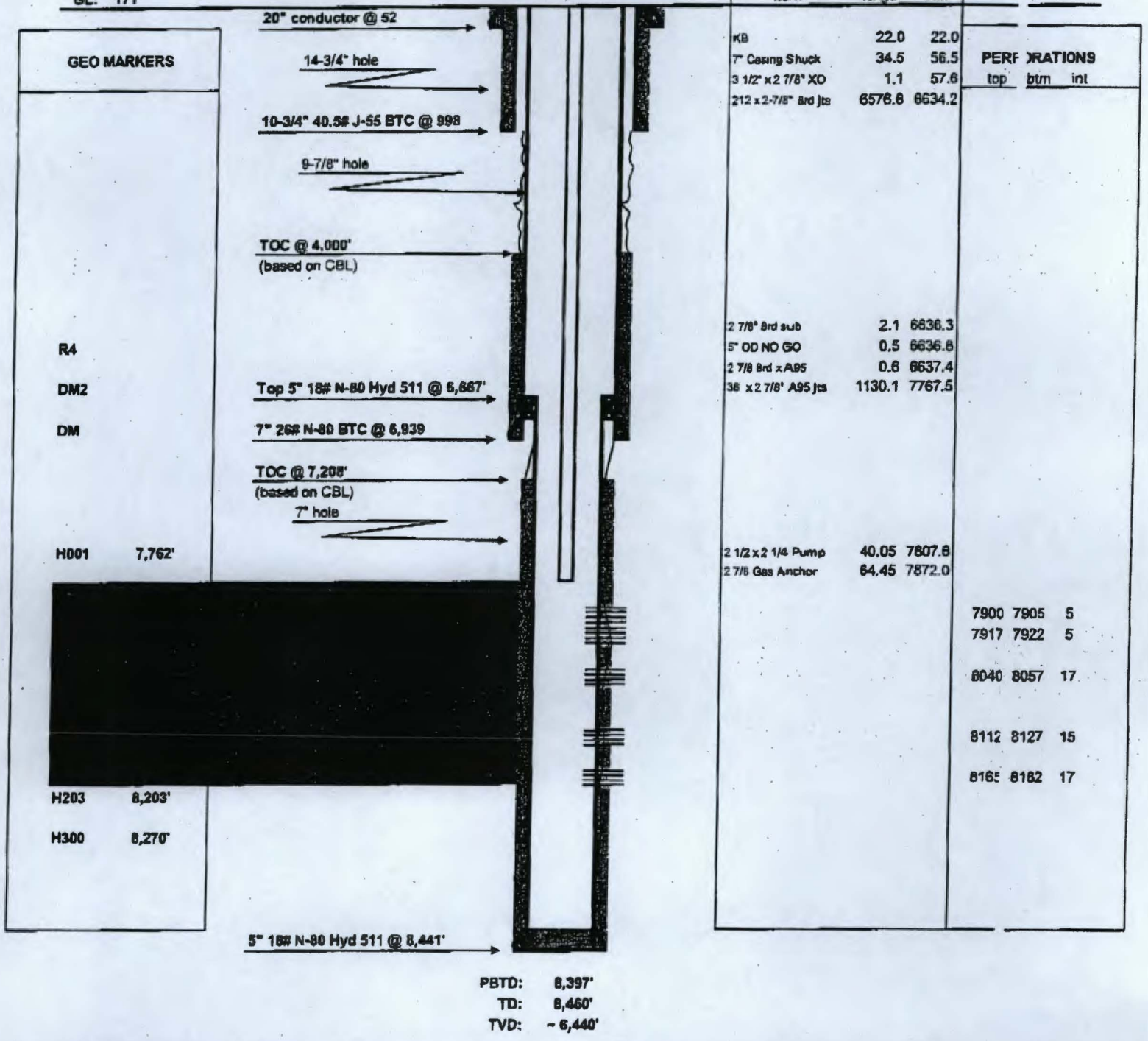
- 20" conductor cemented at 52' to surface.
- 10-3/4", 40.5#, J-55 BTC casing set at 998'. Cemented with lead slurry of 139 sacks of Class G cemen (461 cf, 12.5 ppg, 2.09 cf/sk) and tail slurry of 135 sacks of Class G cement (191 cf, 14.5 ppg, 1.56 cf/sk) Circulate 2 bbls of cement to surface.
- 7", 26#, N-80, BTC casing set at 6,939' with 8-5/8", 32#, K-55 Flush Max from 117' to surface . Cementec with slurry of 800 sacks of Class G cement (1326 cf, 13.5 ppg, 1.66 cf/sk). TOC = 4,000' (CBL shows gooc cement up to 4,000').
- 5", 18#, L-80 Hydril 511 flush max liner, set at 8,441' (float collar = 8,397'). TOL = 6,667'. Cemented witl slurry of 740 sacks of Class G cement (1,225 cf, 13.5 ppg, 1.66 cf/sk). TOC = 7,208' (CBL shows gooc cement up to 7,208').

Perforations:

- Run #1 - 5: TCP guns 3-1/8" diameter, 6 shots per foot, total of 59' perforated. Intervals: 8,165' - 8,182 (17'), 8,112' - 8,127' (15'), 8,040' - 8,057' (17'), 7,917' - 7,922' (5'), 7,900' - 7,905' (5').

WP-59
Breitburn Energy Company, LP
Current Conditions as of 4/13/2011
East Beverly Hills
Sec. 30-T1S-R14W
Los Angeles County, Ca.
API # 04-030-27133

KB: 187
RKB: 16
GL: 171

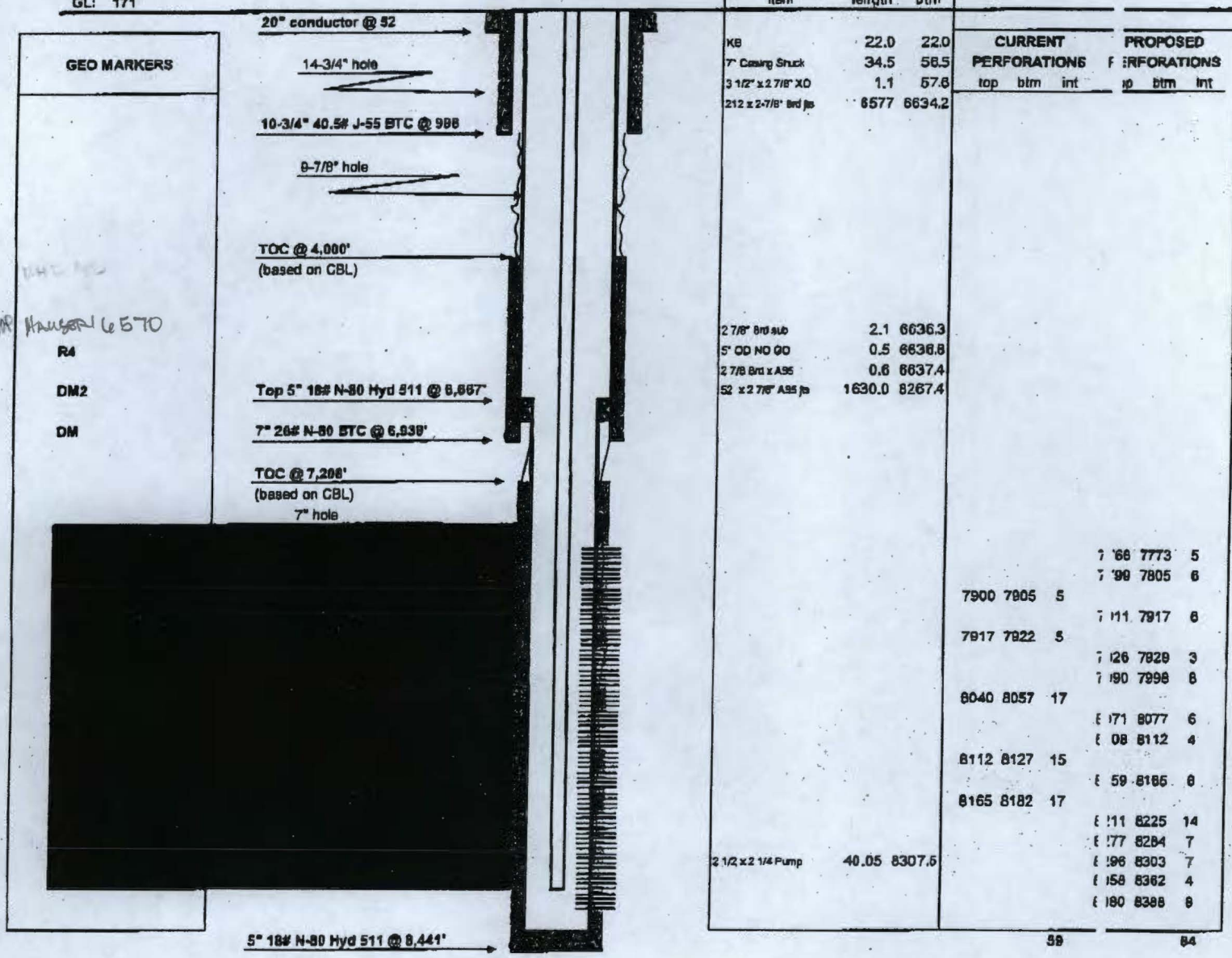


PBTD: 8,397'
TD: 8,460'
TVD: ~ 6,440'

Hole Size	Depth	Casing	Lead slurry	Tail slurry
24"	0-80'	20" ABA conductor		
14-3/4"	0-998'	10-3/4" 40.5# K55 BTC	400ft^3 type III w/ 35% SF @ 12.5 ppg	350ft3 cls "G" w/ 35% SF @ 1 .5 ppg
9-7/8"	0-121'	8-5/8" 32# K55 FM		
	121'-6939'	7" 23# N80 BTC	1326ft^3 35/65 poz Class G @ 13.5 ppg	
7-1/2" RWD	8432	5" 18# K55 Hyd 511 FJ x FM	1225ft^3 35/65 poz Class G @ 13.5 ppg	

WP-59
Breitburn Energy Company, LP
Proposed Condition
East Beverly Hills
Sec. 30-T1S-R14W
Los Angeles County, Ca.
API # 04-030-27133

KB: 187
RKB: 16
GL: 171



WELL BORE EQUIPMENT Item	length	btm
KB	22.0	22.0
7" Casing Shuck	34.5	56.5
3 1/2" x 2 7/8" XO	1.1	57.6
212 x 2-7/8" 8rd jts	6577	6634.2
2 7/8" 8rd sub	2.1	6636.3
5" OD NO GO	0.5	6636.8
2 7/8 8rd x A95	0.6	6637.4
52 x 2 7/8" A95 jts	1630.0	8267.4
2 1/2 x 2 1/4 Pump	40.05	8307.5

CURRENT PERFORATIONS top	btm	int
7900	7905	5
7917	7922	5
8040	8057	17
8112	8127	15
8165	8182	17
		39

PROPOSED PERFORATIONS top	btm	int
7 68	7773	5
7 99	7805	6
7 11	7917	6
7 26	7929	3
7 90	7998	8
8 71	8077	6
8 08	8112	4
8 59	8165	6
8 11	8225	14
8 77	8284	7
8 96	8303	7
8 58	8362	4
8 80	8388	8
		84

PBTD: 8,397'
TD: 8,460'
TVD: ~ 6,440'

Hole Size	Depth	Casing	Lead slurry	Tail slurry
24"	0-80'	20" ABA conductor		
14-3/4"	0-988'	10-3/4" 40.5# K55 BTC	400ft^3 type III w/ 35% SF @ 12.5 ppg	350ft3 cls "G" w/ 35% SF @ 14.5 ppg
9-7/8"	0-121'	8-5/8" 32# K55 FM		
	121'-6839'	7" 23# N80 BTC	1326ft^3 35/65 poz Class G @ 13.5 ppg	
7-1/2" RWD	6432	5" 18# K55 Hyd 511 FJ x FM	1225ft^3 35/65 poz Class G @ 13.5 ppg	

GD

BreitBurn Energy Company, LP
West Pico 59
API # 04-037-27133
Recompletion – v1 – 2011apr13

PURPOSE
Add 84' of Hauser perforations, treat all perfs with mud acid, and lower pump 500'.

HISTORY
2010nov10: Spud
2010dec16: TD = 8460'

The DOG history for drilling and completing the well will be submitted after completion.

WELL DATA

Current status:	On production
KB Elevation:	171.1'
KB Height:	12'
Ground Elevation:	159.1'
Effective CO depth:	Float collar @ 8397'
Casing/liner record:	Casing details shown on attached well bore diagram Capacity of 7", 26#, N80 casing @ .0382 bbls/ft = 255 bbls Capacity of 5", 18#, N80 liner @ .0177 bbls/ft = 31 bbls
Perforation record:	See attached well bore diagrams
Tubing Record:	2-7/8" 6.5# N80 to 6634' 2-7/8" 6.5# A95 6634' – 8267', Capacity of 2-7/8" 6.5# tubing = .00579 bbls/ft
Rods and pump:	2-1/2' x 2-1/4" tubing pump (Black Gold) Weatherford T66 rod taper
Fluid in hole:	Production fluids
Kill Fluid:	Lease water
Completion Fluid:	Lease water
Anticipated reservoir pressure:	< 500 psi

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CONTACT INFORMATION

company	position / service	name	office	cell
Breitburn	Foreman – Sawtelle / West Pico	Pat Vigeant	562.903.1095x107	805.320.174(
Breitburn	Engineering Manager	Brad Pierce	213.225.5900x258	310.261.166
Breitburn	Production Engineer	Dan Fouts	213.225.5900x251	925-528-913
Breitburn	Operations Manager	Jeff Winkler	213.225.5900x222	310.261.123
Breitburn	Geologist	Jon Kuespert	213.225.5900x224	213.225.591(
Baker Atlas	Perforating	David Kassisieh	661.765.2020	
Baker Atlas	Perforating	Darrell Sizemore	661.334.3800x216	661.342.474(
Black Gold	Artificial lift	Ryan Bair	562.595.4475	714.403.350
Black Gold	Artificial lift	Mike Bair	562.595.4475	562.400.284
DOGGR	State Regulatory	John Huff	714.816.6847	714.816.782
McGraw	wash tool	Kenny McGraw	805.643.8440	805.340.437
MTS	acidizing services	Gary Starling	562.981.1222	562.896.689
Tiger Wireline	Operations Manager	Chad Horton	562.426.4044	
Tiger Wireline	Manager	Joe Baxter	562.426.4044	562.755.566

GENERAL NOTES AND REQUIREMENTS

WARNING: West Pico does not have an H_2S issue, yet it is important to beware of the potenti l of hydrogen sulfide gas (H_2S) and its inherent dangers while performing well work and to ake the appropriate safeguards for dealing with H_2S gas.

WARNING: Some chemicals specified in this program have toxic properties. The Wellwork Super isor and the personnel who will be working with this program should be familiar with the inhe ent dangers of the chemicals and appropriate safeguards to prevent accidental injury. Pl ase refer to your MSDS for proper precautions regarding:

- HCl (hydrochloric acid)
- HF (hydrofluoric acid)
- NH4Cl (ammonium chloride)
- Lease oil

NOTE: Before performing job, discuss potential concerns, job procedures, equipment, and scheduling with Engineering, Wellwork Supervisor, and Rig Supervisor.

NOTE: A Safety Meeting shall be held at the job site prior to commencing work with Breitl urn Supervisor, all involved contract personnel, and appropriate BreitBurn personnel to dis uss job details. This meeting shall be documented. Some of the topics to discuss ar as follows:

- BOP Drills
- Perforating Safety
- Lock Out – Tag Out

NOTE: A safety meeting shall be held at the job site prior to commencing perforating opera ons with BreitBurn supervisor, all involved contract personnel, and appropriate Breit urn personnel to discuss job details and review perforating service company Perforating S fety Checklist.

NOTE: If there are any questions concerning the procedure, contact Dan Fouts @ 925-528-5 131 (mobile) or 213.225.0251 (office).

PROCEDURE:

1. Install 5000 psi BOPE with 2-7/8" pipe rams. Test BOPE to 3000 psi.

2. POOH rods, pump, and tubing.

3. Pick up bit and positive casing scraper for 5", 18#, N-80 casing. Trip scraper to PBTD @ 8[illegible]97'. Circulate hole clean. Notify engineering of tag and clean out depths. (Casing volume = 286 b[illegible]ls). POOH and lay down bit and scraper.

4. MI Tiger Wireline. Hold safety meeting prior to rigging up perforators. RU Tiger Wireline to perfo[illegible]ate with 3-3/8" 6SPF 60 DEG SDP-3375-311NT3 25 gram HERO guns. Correlate to Weathe[illegible]ord Induction / Neutron / Denisty / Gamma log dated 16-Dec-2010. Reference Schlumberger SCMT log dated 22-Dec-2010. Note 5" liner top @ 6667'. Perforate the following intervals:

Zone	TOP perf	BTM perf	Interval
H0	7768	7773	5
H0	7799	7805	6
H1	7911	7917	6
H1	7926	7929	3
H1	7990	7998	8
H2	8071	8077	6
H2	8108	8112	4
H2	8159	8165	6
H2	8211	8225	14
H2	8277	8284	7
H2	8296	8303	7
H3	8358	8362	4
H3	8380	8388	8
Totals			**84**

5. RDMO Tiger Wireline.

6. MIRU McGraw Tool. Hold safety meeting. Make up triple opposed cup wash tool wth 30' cup spa[illegible]cing for 5", 18#, N-80 casing. Wash tool includes, internal bypass, fluid bypass (slide valve), one Mc[illegible]raw acid control valve, a manual bar-drop knockout, and a back pressure flow valve. Fluid bypass sh[illegible]ould be open while running tool in hole to allow fluid to bypass cups. The acid control valve should be the type that is actuated by pump pressure above tubing hydrostatic (not tubing/annulus differential). RIH. Test cups once past liner top @ 6667'.

7. MIRU MTS Acidizing services pumping equipment wlth acid as follows (mixtures at specification for 160° F):
   - 3360 gallons 15% HCL containing: 3% Misol, 0.4% AI-205, 1% ISA-100, 0.3% SW-61
   - 5720 gallons 13.5%-1.5% HCL/HF containing 2% Misol, 0.4% AI-205, 0.3% ISA-100
   - 6200 gallons 5% NH4Cl

8. Hold safety meeting. Connect MTS Stimulation Services pump truck to work string. Pressure test surface lines to 2500 psi with kill fluid for 5 minutes. Fill casing annulus with kill fluid, install 0-50[illegible] psi pressure gauge on casing annulus, and monitor casing pressure during acid treatment.
   - Properly mix acid mixtures and 5% NH_4CL solution in transports prior to pumping
   - All pumping should be attempted at maximum pump rate up to 2 BPM
   - Do not exceeding 2500 psi surface pressure
   - Pump all fluids (15% Hcl, 13.5%-1.5% HCL/HF, and then 5% NH4Cl) per each set pri[illegible]r to moving cups

9. Pump acid as per following schedule:

cup set #	top cup	bottom cup	net	perf set #	top perf	bottom perf	net	tbg vol gals	15% HCl gals	HF acid gals	5% H4Cl gals
	pickle tubing				7700			1872	500	0	2000
1	7760	7790	5	1	7768	7773	5	1889	100	200	200
2	7790	7820	6	2	7799	7805	6	1897	120	240	200
3	7900	7930	19	3	7900	7905	5	1921	380	760	200
				4	7911	7922	11				
				5	7926	7929	3				
4	7980	8010	8	6	7990	7998	8	1943	160	320	200
5	8035	8065	17	7	8040	8057	17	1955	340	680	200
6	8065	8095	6	8	8071	8077	6	1963	120	240	200
7	8100	8130	19	9	8108	8127	19	1972	380	760	200
8	8205	8235	23	10	8159	8182	23	1984	460	920	200
9	8200	8230	14	11	8211	8225	14	1997	280	560	200
10	8277	8307	14	12	8277	8284	7	2013	280	560	200
				13	8296	8303	7				
11	8358	8388	12	14	8358	8362	4	2032	240	480	2200
				15	8380	8388	8				
			143'				143'	gals	3360	5720	5200
	TOTALS							bbls	80	136	148

10. Fully displace tubing with 5% NH4Cl water. Dump remaining 5% NH4Cl water down tubing ann ilus. POOH standing tubing. RDMO MTS and McGraw.

11. RIH tubing pump and 2-7/8" N80 6.5# Hydril A95 x 2-7/8" N80 6.5# EUE 8rd tubing. Set pump t: il @ 8300' +/-. Nipple down BOPE .

12. Nipple up rod rigging. RIH tapered Weatheford T66 rod string as per Black Gold design. St oke pump with rig.

13. Connect HRP unit, flowline, etc.

14. Skid rig.

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DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

CHECK LIST – RECORDS RECEIVED AND WELL STATUS

Company:	**Breitburn Operating LP**	Well: **"West Pico" 59**
API#:	**037-27133**	Sec. **30**, T. **1S**, R.**14W**. S. B. B. & M.
County:	**Los Angeles**	Field: **Beverly Hills**

RECORDS RECEIVED	DATE
Well Summary (Form OG100)	**3/3/2011 (2)**
History (Form OG103)	**3/3/2011 (2)**
Core Record (Form OG101)	
Directional Survey	**3/3/2011 (2)**
Sidewall Samples	
Date final records received.	
Electric Logs:	
Other:	
Slim Cement Mapping Tool - Gamma Ray/CCL	**3/3/2011 (2)**
Arrray Induction Compensated Dual Neutron - Photo Denisty Gamma Ray	**3/3/2011 (2)**

STATUS			
Producing	☒	Drilling	☐
Abandoned	☐	Idle	☐
Reabandoned	☐	Other	☐

WELL TYPE			
Oil	☒	Waterflood	☐
Gas	☐	Water Disposal	☐
Water Source	☐	Cyclic Steam	☐
Observation	☐	Steam Flood	☐
Exploratory	☐	Fire Flood	☐
Dry Hole	☐	Other	☐

EFFECTIVE DATE: 1/7/2011

REMARKS: footage: 8460'

	ENGINEERS CHECK LIST
☒	Summary, History & Core Record (Dupl.)
☒	Electric Log
☒	Operator's Name
☒	Signature
☒	Well Designation
☒	Location
☒	Elevation
☒	Notices
☒	"T" Reports
☒	Casing Record
☐	Plugs
☒	Directional Survey
☒	Production/Injection (FAP Codes: 054030 0)
☐	E Well on Prod., enter EDP
☐	Surface Inspection Required
☐	Surface inspection Waived (Island)
☐	Well site restoration deferred (common cellar)
☐	Final Letter Required AB: ☐ REAB: ☐
☐	Other:

CLERICAL CHECK LIST
Location change
Elevation change
Form OGD121
Form OGD150b (Release of Bond)
Duplicate logs to archives
Notice of Records Due
EDP 7-5-11 VM
District Date Base
Final Letter (OG159)
Update Center 7-8-11 VM

FIELD CHECK LIST
Date Surface Inspection Completed:
Other:

RECORDS NOT APPROVED	RECORDS APPROVED JCH 6/17/2011
(Reason:)	*(Signature)*
	RELEASE BOND
	Date Eligible
	(Use date last needed records received.)
	MAP AND MAP BOOK

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N/C
map 1/7
JCH 7/1/11

F

NATURAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

WELL SUMMARY REPORT

API No. 037-27133

Operator	Well				
BreitBurn Energy Company, LP	**"West Pico" 59**				
Field (and Area, if applicable) **Beverly Hills**	County **Los Angeles**	Sec. **30**	T. **1S**	R. **14W**	B.&M. **SB**

Location of well (Give surface location from property or section corner, street center line)
19.45' N along property line and 108.97' E at right angles to said line from centerline of Oakhurst corner of property Sec. 30, T1S, R14W, SB&BM

Elevation of ground above sea level: **187'**

Lat./Long. in decimal degrees, to six decimal places, NAD 83 format: Lat: **34.055468** Long: **-118.390414**

Was the well directionally drilled? ☒ Yes ☐ No
If yes, show coordinates (from surface location) and true vertical depth at total depth. **X = 3,556' E and Y = 72' N from well head. TVD = 6,446'.**

Commenced drilling (date)	Total depth (1st hole)	(2nd)	(3rd)	Depth measurements taken from top of:
11/9/2010	**8,460'**			☐ Derrick Floor ☐ Rotary Table ☒ Kelly Bushing
Completed drilling (date) **12/19/2010**				Which is **16** feet above ground.
Commenced production/injection (date) **1/7/2011**	Present effective depth **8,441'**			GEOLOGICAL MARKERS / DEPTH
Production mode: ☐ Flowing ☒ Pumping ☐ Gas lift	Junk? Describe: **None**			**Top of Hauser 1** **6,570'** **Bottom of Hauser 1** **6,851'** **Top of Hauser 2** **7,260'**
Name of production/injection zone(s) **Hauser**				Formation and age at total depth **Miocene Hauser** / Base of fresh water **600'**

	Clean Oil (bbl per day)	API Gravity (clean oil)	Percent Water (including emulsion)	Gas (Mcf per day)	Tubing Pressure	Casing Pressure
Initial Production	6	26	95	46	80	25
Production After 30 days	2	26	97	46	70	25

CASING AND CEMENTING RECORD (Present Hole)

Size of Casing (Inches API)	Top of Casing	Depth of Shoe	Weight of Casing	Grade and Type of Casing	New (N) or Used	Size of Hole Drilled	Number of Sacks or Cubic Feet of Cement	Depth of Cementing (if through perforations)	Top(s) of Cement in Annulus
20"	Surface	52'		Conductor	N	24"	Unknown		Surface
10-3/4"	Surface	998'	40.5#	J-55 BTC	N	14-3/4"	L) 139 sxs (461 cf) T) 135 sxs (191 cf)		Surface
7" 8-5/8"	117' Surface	6,939' 117'	26# 32#	N-80 BTC K-55 Flush Max	N N	9-7/8"	800 sxs (1326 cf)		CBL = 4,000'
5"	6,667'	8,441'	18#	L-80 Hydril	N	7"	740 sxs (1,225 cf)		CBL = 7,208'

PERFORATED CASING (Size, top, bottom, perforated intervals, size and spacing of perforations, and method.)
Run #1 - 5: TCP guns 3-1/8" diameter, 6 shots per foot, total of 59' perforated.
Intervals: 8,165' - 8,182' (17'), 8,112' - 8,127' (15'), 8,040' - 8,057' (17'), 7,917' - 7,922' (5'), 7,900' - 7,905' (5').

Logs/surveys run? ☒ Yes ☐ No If yes, list type(s) and depth(s).
Weatherford Array Induction Compensated Dual Neutron Photo Density / Gamma Ray - from 8,439' to 6,944'.
Schlumberger Slim Cement Mapping Tool Gamma Ray / CCL - from 8,375' to 2,500'.

In compliance with Sec. 3215, Division 3, of the *Public Resources Code*, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Name of person filing report	Telephone Number	Signature	Date
Brad Pierce	**213-225-5900 ext. 258**	Brad R. Pierce	**3/1/2011**
Address **515 South Flower Street, Suite 4800**		City/State **Los Angeles, CA**	Zip Code **90071**
Individual to contact for technical questions: **Brad Pierce**	Telephone Number **213-225-5900 ext. 258**	E-Mail Address: **bpierce@breitburn.com**	

OG100 (3/09)

SUBMIT IN DUPLICATE

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RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator BreitBurn Energy Company, LP Field Beverly Hills County Los Angeles

Well "West Pico" 59 Sec. 30 T. 1S R. 14W S.B. B.&M.

A.P.I. No. 037-27133 Name Brad Pierce (Person submitting report) Title Agent (President, Secretary, or Agent)

Date 3/1/2011 (Month, day, year)

Signature Brad R Pierce

Address 515 S. Flower St., Suite 4800 Los Angeles, CA 90071 Telephone Number (213) 225-5900

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Date	Drill
11/7/2010	Tore out and moved mud pump, discharge pumping. Cut grading over well #59 for pitcher nipple. Skid rig west to access east side of court yard. Clear east side of court yard. Spot trailers, sack mud, and miscellaneous equipment. Off-load skid beams and load out miscellaneous equipment to ship to Sawtelle and continue spotting sack mud. Unload V-door extension. Skid rig west to line up to well #59. Set and pin skid beams. Spot mud pump suction manifold and run accumulator lines. Transfer KCL fluid from pits to west tank. Service rig and equipment. Prepare mud room and mud tanks for cleaning. Organize equipment and materials on east side of court yard.
11/8/2010	Install rails to roll BOPE to south side of rig. Skid rig over WP-59. Using welders, revamp suction lines and installed 20" conductor and flowline. Tighten flowline flanges and installed flow sensor. Pump remaining KCL fluid from mud pits and shipped spud mud from storage to mud pits. Ready rig for drilling. Ship spud mud from storage tank to mud pits. Made up 9-7/8" bit. Back scuttled on one joint heavyweight drill pipe. Ran in hole and check for any possible junk at bottom of 20" conductor at 52'.
11/9/2010	Continued working with welders while rigging up. Measured caliper and pick up two 6-3/4" drill collars. Made up 9-7/8" bit and ran in hole with same (tag down at 59'). Kelly bushing measured (20" conductor set at 60' ground level). Wash and drill down from 59' to 65' (tagged down). Bit will not drill, may be on metal. Run #1: ran in hole with 10-1/2" magnet (no recovery). Run #2: ran in hole and circulate. Run #3: ran in hole with I-beams, slight dent on one side (outside edge). Run #4: ran in hole with 10-1/2" magnet recovered nuts and bolts. Run #5: reverse circulate sub, no recovery. Run #6: ran in hole with 7" magnet, recovered nuts, bolts, and miscellaneous metal. Made up drill assembly, 9-7/8" bit and drill collars. Ran in hole to 64'. Rotary drill 9-7/8" hole from 64' to 126' with full returns. Pulled out of hole to inspect 9-7/8" bit – good. Ran in hole to 126'. Rotary drill 9-7/8" hole from 126' to 200' with full returns. Pulled out of hole to pick up directional gyro tools.
11/10/2010	Held safety meeting. Picked up and made up directional tools and 9-7/8" bit. Held safety meeting with gyro crew. Rig up and calibrate tools. Made up directional tools and bottom hole assembly. Ran in hole to 200' and survey. Made up gyro tools and survey at 196'. Directional drill 9-7/8" hole from 200' to 292' with full returns. Survey at 261'. Empty cuttings bin. Service super sucker. Directional drill 9-7/8" hole from 292' to 415' with full returns. Survey at 353'. Held safety meeting with crew. Directional drill 9-7/8" hole from 415' to 1,000' with survey at 415', 474', 598', 722', 845'. Pump sweep circulate bottoms up from 1,000'. Pulled out of hole with directional tools and laid down. Mud motor change out, crossover on top of jars. Pick up and made up 14-3/4" bullnose hole opener with bottom hole assembly stabs at nipple down, 30' and 60'.
11/11/2010	Change two liners in #1 pump and repair trip tank pump. Service rig. Made up 14-3/4" bullnose hole opener assembly. Open 9-7/8" hole to 14-3/4" hole to 103' with full returns. Made up 14-3/4" stabilizer and one drill collar. Open 9-7/8" hole to 14-3/4" hole from 103' to 1,002' with full returns. Circulate bottoms up and pump nut shell sweep. Made wiper trip to conductor shoe and back to bottom (no tight spots at all). Circulate and condition mud with Omni pol. Pulled out of hole with 14-3/4" bullnose hole opener and laid down same (no tight spots). Clean and clear rig floor; laid down bails. Held safety meeting and rig up B&L casers to run 10-3/4" casing.
11/12/2010	Rig up B&L casers. Run 24 joints (1,001') of 10-3/4", 40.5#, J-55 BTC casing to 998' (shoe) with insert at 932'. Made up cement head, circulating hose and fill pipe. Circulate with full returns (rig down, load out B&L casers and clear support bay for BJ cementers). Circulate with full returns (Rig up BJ cementers, held safety meeting, and mix pre-flush). Cement 10-3/4" casing as follows: 20 bbls of mud clean chemical wash, 30 bbls of fresh water, lead cement of 400 cf of type III with 35% SF + additives mixed at 12.5 ppg. Tail cement in with 350 cf of Class G cement with 35% SF mixed at 14.5 ppg. Drop plug and displaced with 93 bbls mud. Bump plug with 300 psi over flowing casing pressure. Float held, cement in place at 16:00. Had full circulation throughout cementing job. Circulated 2 bbls of cement to surface – okay. Wait on cement. Rig down cementers. Ready conductor to be cut. Rig up welders. Assist welders, cut out and laid down conductor. Cut 10-3/4" casing and laid down. Clean well bay. Set in weld on well head and weld after cooling time of well head test to 1,500 psi for 15 minutes. Set in tubing spool and nipple up same. Set in riser spool and nipple up same. Set in riser adapter. Set in riser and start nipple up of Class III 3M BOPE.
11/13/2010	Continue to nipple up class III 3M BOPE. Build choke and riser lines. Run accumulator and remote control lines. Function test stack. Install pump suction plumbing, modify pitcher nipple and flowline. Held safety meeting with testers. Test BOP, choke manifold, floor valves, and mud cross – 250 psi low to 2,500 psi high for 15 minutes. Pull test plug and install wear bushing. Lay down test joint. Lay down 6-3/4" drill collars. Pick up and made up 9-7/8" bit directional assembly and ran in hole to 891'. Start testing class III 3M BOPE for DOGGR.

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11/14/2010	Test BOP for DOGGR, approved by Kathleen Andrews of the DOGGR. Spot and rig up gyro wireline truck and hydrocrane. Clean out cement stringers from 891' to insert at 932'. Circulate clabbered mud. Drill plug insert and hard cement to 992'. Circulate change shaker screens and shaker screen rubbers. Drill cement and guide shoe at 998'. Directional drill to 1,110' with full returns. Run gyro survey and measure while drilling survey at 1,098'. Directional drill 9-7/8" hole to 1,169' with full returns. Run gyro survey and measure while drilling survey at 1,161'. Directional drill to 1,231' with full returns. Run gyro survey and measure while drilling survey at 1,227'. Directional drill to 1,357' with full returns. Run gyro survey and measure while drilling survey at 1,353' (last scientific gyro survey released at 2200 hrs). Directional drill from 1,357' to 1,729' with full returns. Circulate bottoms up. Made wiper trip to shoe. Work on mud pump #1, swab change bay #2. Service rig and top drive. Work on mud pump #1, swab change bay #2. Ran in hole from hoe and directional drill from 1,729' to 1,824' with full returns.
11/15/2010	Circulate and clear flowline. Directional drill 9-7/8" hole from 1,824' to 2,420' with full returns. Circulate bottoms up for wiper trip. Wipe hole from 2,420' to 975'. Service rig and top drive. Work on mud pump #1, clean out swab and liner. Ran in hole to 2,233'. Safety ream from 2,233' to 2,420'. Circulate hole till clean. Directional drill 9-7/8" hole from 2,420' to 2,680' with full returns.
11/16/2010	Directional drill 9-7/8" hole from 2,680' to 2,800' with full returns. Circulate bottoms up. Pulled out of hole for bit and pipe swap. Handle bottom hole assembly, drain and inspect mud motor, break out. Service rack, top drive and equipment. Made up new bit, bottom hole assembly and shallow test measure while drilling directional tools – okay. Ran in ole with new directional tools to 1,799' and fill drill pipe (survey at 1,792'). Directional drill 9-7/8" hole from 2,800' to 3,350' with full returns.
11/17/2010	Held safety meeting with crew. Directional drill 9-7/8" hole from 3,363' to 3,518' with full returns. Circulate hole clean. Wipe hole from 3,518' to 982' (shoe) free. Service rig and top drive. Ran in hole to 2,431'. Fill drill pipe and break circulation. Ran in hole to 3,177'. Fill drill pipe and break circulation, and unplug flowline. Ran in hole to 3,395'. Safety ream from 3,395' to drilled total depth at 3,518'. Circulate hole clean. Directional drill 9-7/8" hole from 3,518' to 4,245' with full returns.
11/18/2010	Continued directional drilling 9-7/8" hole from 4,245' to 4,276' (module washed #2 mud pump). Circulate bottoms up. Pulled out of hole with drill pipe, drill collars, and heavyweight drill pipe to shoe (1,000'). Tight at 4,022' – 3,771' (25k – 35k overpull). Work on #2 mud pump (change out module). Ran in hole with drill pipe to 2,500'. Filled drill pipe. Break circulation and circulate bottoms up at 2,500'. Ran in hole from 2,500'. Wash and ream from 2,980' – 3,015', 3,118' – 3,178', 3,205' – 3,265', 3,575' – 3,590', 3,782' – 3,841'. Continued to run in hole from 3,841' to 4,276'. Mixed and pump sweep and circulate bottoms up. Directional drill 9-7/8" hole from 4,276' to 4,680' with full returns.
11/19/2010	Directional drilling 9-7/8" hole to 4,838' with full returns. Circulate for wiper trip. Pulled out of hole to 3,500' (no problems). Add drill pipe below heavyweight drill pipe and run in hole to 4,760'. Pump high viscosity sweep. Safety ream to 4,838'. Circulate bottoms up. Directional drill 9-7/8" hole from 4,838' to 5,282' with full returns. Mixed and pumped viscosity sweep to pull out of hole to surface. Pulled out of hole from 5,281' to change out bit and mud motor (no problems).
11/20/2010	Continued to pull out of hole to bit break and lay down bit and mud motor. Service rig and equipment. Break and change out 6-5/8" Reg x 4" Fh saver sub on top drive. Made up new mud motor and bit #4. Install new measure while drilling probe. Run in hole with bottom hole assembly (fill pipe and test measure while drilling at 1,010'). Continued to run in hole to 2,500'. Fill pipe and circulate bottoms up. Continued to run in hole and fill pipe. Circulate bottoms up at 3,750'. Run in hole to 5,225'. Fill pipe and mix sweep. Circulate sweep around, safety ream from 5,225' to 5,281'. Directional drill 9-7/8" hole from 5,281' to 5,800' with full returns.
11/21/2010	Continued directional drilling 9-7/8" hole to 5,847' with full returns. Circulate and condition hole clean. Pulled out of hole to 4,970', add drill pipe to string. Ran in hole to 5,790'. Circulate sweep around safety ream from 5,790' to 5,847'. Directional drill 9-7/8" hole from 5,847' to 5,974' with full returns. Replace valve and seat #2 mud pump (reciprocate pipe). Continued directional drilling 9-7/8" hole from 5,974' to 6,220' with full returns. Mixed and pumped sweep. Circulate bottoms up for wiper trip. Wipe hole to 10-3/4" shoe, 25k – 35k overpull from 5,880' – 5,865' and 5,820' – 5,795'. Serviced rig and top drive.
11/22/2010	Continued to service rig and equipment. Measured rabbit and pick up 28 joints of 4" full hole drill pipe. Ran in hole to 2,500' and filled pipe. Continue to run in hole to 3,750'. Fill drill pipe. Break circulation and condition mud; circulate bottoms up. Ran in hole to 5,000', when gear box on "C" motor went bad. Rig up swedge and circulate hole. Pull "C" motor and gear box. Rig power at 80% = 350k Max pull. Reciprocate pipe to ensure free. Continue to run in hole from 5,000' to 6,170'. Fill drill pipe. Break circulation and safety ream from 6,170' to 6,220'. Circulate and condition mud bottoms up. Directional drill 9-7/8" hole from 6,220' to 6,778' with full returns.
11/23/2010	Continued to directional drill 9-7/8" hole from 6,778' to 6,903'. Circulate bottoms up. Pulled out of hole to 6,590' (pulled tight). Circulation and back ream out to 6,150'. Continued pulled out of hole to shoe (1,000'). Rig repairs (install gear box and "C" motor). Pulled out of hole from 921' to top of tools (133'). Trip in hole with directional tools and heavyweight drill pipe. Trip in hole from 133' to 845'. Change oil in new gearbox. Trip in hole from 133' to 845'. Change oil in new gearbox. Trip in hole to 2,500' and fill pipe, and continued to trip in hole to 3,731'. Repair leaking 2" nipple on stand pipe. Filled pipe and circulate bottoms up (thick mud). Trip in hole to 5,280'. Circulate bottoms up (thick mud / 504 units trip gas). Crew change. Service rig and equipment. Continue to trip in hole.
11/24/2010	Continued trip in hole (tight at 6,660'). Ream out continued trip in hole to 6,845'. Safety ream to 6,903'. Circulate bottoms up (1,400 units gas). Directional drill 9-7/8" hole from 6,903' to 7,405' (7" casing total depth). Mix and pump high viscosity LCM pill around until clean. Pulled out of hole (tight 40-50k over) from reaming assembly. Back ream intermittent tight spots from 7,195' to 6,690'. Pulled out of hole from reaming assembly. Lay down directional tools and pull wear bushing. Made up 9-3/4" bullnose hole opener, 9-3/4" new bit stab, one 5-3/4" SDC, 9-3/4" stab, one 5-3/4" SDC, cross-over, cross-over, jars, cross-over, 19 joints of 4" heavyweight drill pipe. Trip in hole with stiff reaming assembly to 997' (shoe). Service rig and equipment. Continue to run in hole with 9-3/4" bullnose hole opener stiff reaming assembly.
11/25/2010	Continued to run in hole to 5,783' (tight). Fill drill pipe and circulate bottoms up at 5,300' and 3,250'. Ream and wash out from 5,783' to 5,900'. Circulate bottoms up 1,200 units gas. Continued to run in hole to 5,973', ream to 6,031'. Continued to run in hole to 6,099', ream and wash down to 6,602'. Continued to run in hole to 6,860', wash and ream to 7,405' (casing total depth). Circulate hole clean. Wipe hole – tight at 7,370'. Back ream intermittent tight hole from 7,370' to 6,900'. Continued to wipe hole to 5,720', normal drag – no back reaming. Ream in hole to drilled total depth of 7,405' (7" casing point). Circulate and condition hole for running 7" casing. Attempt to wipe hole – tight hole from 7,400' to 6,727', pulled ~ 50k over. Wipe hole to shoe (back ream tight spot at 6,430').

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11/26/2010	Service rig and equipment. Run in hole with drill pipe to 6,400' (fill pipe at 3,000' and 5,000'). Wash and ream out tight spots from 6,400' to 7,400'. Circulate hole clean, spot torque ease. Pulled out of hole drill pipe (spotting tight spots), 25-50k overpull up to 6,400'. Mixed and pumped dry job. Continued to pull out of hole form 7" casing. Lay down stabilizers and bullnose hole opener. Stand back 5-3/4" SDC's and clear floor. Held safety meeting. Rig up to run casing. Made dummy run with 8-5/8" mandrel joint and landing joint rack, 3 joints in derrick. Made up stab-in circulating tool and pick up 22' bails and 7" elevators. Made up float shoe, 2 joints of 7", 26#, N-80 BTC casing and float collar. Continue running 7", 26#, N-80 BTC casing.
11/27/2010	Continued to pick up and run in hole with 163 joints of 7", 26#, N-80 BTC casing using fill-up tool to 6,940' where casing became stuck after making a connection. Circulate and work stuck casing (pulling 380k max power with rig). Could not work free. Released equipment and rearrange equipment in service bay for cement trucks while circulating. Circulate and work stuck casing pulling to 380k with no movement. Isolate pill pit, bring on 70 bbls of lease crude oil from BreitBurn production facility. Spot 60 bbls of crude oil in open hole from 7,000' to 5,700'. Displace 1 bbls of crude oil per hour. Work pipe to 300k and held 250k between displacement intervals.
11/28/2010	Continued to work casing at 375k and circulate lease crude across tuck interval with no success. Rig repairs lost all power (BreitBurn mechanic made repairs), 80% power. Held safety meeting with cementers and rig crew. Finish rigging up and test pumps and lines to 4,000 psi. Mix and pump 40 bbls mud clean, 20 bbls of water followed by 236 bbls of cement slurry (13.5 ppg = 1,326 cf with 1.66 yield). Drop bottom plug and displace cement with 262 bbls of water. Bump plug with 1,430 psi. 600 psi over float collar plug. Open bleeder (float holding). Cement in place at 11:00 am on 11/28/2010. Rig out cementers. Wait on cement. While waiting on cement, clean and clear pipe bay, load out cement equipment, and clean rig floor. Rig down cement head and casing bails. Transfer mud from mud pits. Held safety meeting with crew. Ship mud out and clean mud pits. Held safety meeting with hands and casing crew. Rig up equipment back off 7" casing. Backed off approximately 18 joints. Laid down top 3 joints of 7" casing. Picked up and made up 8-5/8" casing and run in hole. Tag and attempt to screw into 7" casing, made 3 turns and torque up to 4,000#. Looks as if 7" is cross threading where backed off. Backed out and cross thread and unscrewed at crossover (8-5/8" to 7"). Made up 7" spear and run in hole to 119'. Spear 7" casing. Set spear pull 4k over string weight. Backed off 7" casing (free). Pulled out of hole with spear and 13 joints of 7" casing; laid down same.
11/29/2010	Trip out of hole with 13 joints of 7" casing (collar on the bottom of last joint, threads damaged) from 676'. Pulled fluid from work bay troughs and cellars. Service rig while waiting on casing collar with starting lip. Made up lipped casing collar with starting lip and run 13 joints of 7", 26#, N-80 and 3 joints of 8-5/8", 32#, K-55 Flush Max BTC casing. Screw onto 7" casing stub at 676'. Mix KCL fluid and rig down B&L casers. Rig up to pressure test casing and test casing to 1,500 psi for 15 minutes (good test). Held safety meeting with crew and third party hands. Attempt to set 8-5/8" casing slips. Pulled 100k+ on casing when casing pin pulled out at ~884'. Rig up casing crew. Pulled out of hole with 3 joints of 8-5/8" casing and 15 joints of 7" casing with box on bottom. Wait on Central Fishing hand. Pick up and make up casing cutter (SLM). Run in hole to 917' to make mechanical cut for casing bowl tie-back patch. Locate collar at 931.14', pulled up 9' and made mechanical. Cut at 922.14'. Pulled out of hole with 7" casing cutter and laid down same.
11/30/2010	Pulled out of hole with 7" casing. Laid down same 7" casing stub at 918'. Made up and trip in hole with polish mill. Dress casing stub in preparation for casing tie-back patch installation. Pulled out of hole and laid down dressing mill. Service rig and equipment. Picked up 1 joint of 8-5/8" casing. Changed damaged casing collar, laid down casing. Made up tie-back casing patch, cross-over, 7" and 8-5/8" casing, and screw casing patch onto 7" casing stub at 918'. Pull test casing patch to 60k and pressure test to 1,500 psi for 15 minutes. Both tests were okay. Drop casing slips through BOP stack and set casing slips with 50k lbs. Rig down B&L casers equipment. Pick up 4-ways remove kill and choke line, remove dresser sleeve and pitcher nipple. Break bolts on well head and pick up stack. Rig up welder and cut 8-5/8" casing and dress casing. Prepare well head and set in pack off. Pressure test to 1,500 psi for 10 minutes (good test). Set down stack and nipple up stack. Test blind rams to 1,500 psi for 15 minutes (good). Installed wear bushing. Repair leak on IBOP control ram on top drive. Lay down 2 joints of 8-5/8" casing. Ran in hole with 5-3/4" drill collars and 19 joints of 4" heavyweight drill pipe and jars. Pulled out of hole with 4" heavyweight drill pipe, 5-3/4" drill collars and jars. Lay down same.
12/1/2010	Lay down and load out 5-3/4" drill collars and 6-1/4" jars. Made up steerable bottom hole assembly and pick up 3-1/2" heavyweight drill pipe. Shallow test measure while drilling tools and continue to pick up 3-1/2" heavyweight drill pipe. Service rig and equipment. Test BOPE for DOGGR, test witnessed and approved by Nazeeh of DOGGR. Tri p in hole with 3-1/2" drill pipe to 4,000'. Made up inside safety valve. Fill pipe and retest BOPE test for DOGGR. BOP test not passed by DOGGR agent Ellen Moser due to lack of dual valve assembly on wellhead on 3" choke side. Wait on valve for choke line (repair IBOP on top drive). Clean pit area and rig floor. Pulled out of hole from 3,232' and change out mud motor and bit. Ran in hole with 4-3/4" outside diameter 4:5 lobe 6.3 stage mud motor and Reed-Hyc 7" pilot bit.
12/2/2010	Held safety meeting with crew. Run in hole from 124' to 1,273' and fill hole. Service rig and top drive. Repair top drive with BreitBurn electrician. Run in hole from 1,273' to 3,232'. Held safety meeting with crew. Assist mechanic with repairs to top drive IBOP. Install valve on choke side of BOP. Rebuild pop-off on pump #1. Change paddle and seat on 3" valve on pump #1. Wait on DOGGR for BOPE test, while waiting made pre-test of BOPE (tested good – unload and strap 5" liner 1,968.75'). Cleaned rig floor. Greased rack and track from top drive. Test BOPE for DOGGR, witnessed by Nazeeh and John Huff (test good). Ran in hole from 3,232' to 6,774'. Tag cement at 6,774' (71' above insert collar at 6,845'). Drill cement from 6,774' to insert collar at 6,845'. Shoe track and shoe at 6,939'.
12/3/2010	Continue drilling cement and guide shoe at 6,939'. Roll hole over to Cross-Anvis 3% KCL drilling fluid. Clean out cement stringers and ream from 6,939' to 7,405'. Directional drill with 4-3/4" x 7" SRWD to 7,475'. Circulate gas cut mud (3,048uts circulated down to 900uts before drilling ahead). Directional drill with 4-3/4" x 7" SRWD hole from 7,475' to 7,814' with full returns (hole taking 5-10 bbls/hr). Circulate hole from trip to shoe. Pulled out of hole from 7,814' to 6,878' (casing shoe). Service rig and top drive, clean rig floor. Run in hole, tight spots at 6,945'. Ream from 6,945' to 7,436'. Circulate out gas cut mud (2,400uts down to 1,005uts). Continued to ream from 7,436' to 7,563'. Run in hole to 7,751' and safety ream from 7,751' to 7,814'. Circulate bottoms up (gas 2,300 units circulated down to 300uts). Directional drill with 4-3/4" x 7" ream while drilling from 7,814' to 8,065' with full returns.
12/4/2010	Directional drill 7" hole with 4-3/4" x 7" SWRD to 8,245' with full returns. Wipe hole to shoe, 30k-50k over normal drag from 8,195' to 8,070'. Diminishing to normal drag by 7,690'. Service rig and top drive. Trip in hole to 8,196' (spot ream tight hole from 7,510' to 7,570'). Attempt to circulate and safety ream – no returns. Pulled out of hole (near identical drag as 1st trip), some light swabbing. Attempt to circulate at 7,695' – no returns. Pulled out of hole, normal drag at 7,405'. Circulate with full returns at 7,260'. Pulled out of hole to shoe at 6,939'. Build mud volume. Circulate and condition mud at 6,945'. Ran in hole from 6,945'. Tight spot at 7,230' – 7,242'. Ran in hole from 7,242' to 7,476'. Circulate bottoms up and circulate gas cut mud 2,800uts. Ream from 7,476' to 7,560'. Continued to run in hole to 8,060'. Safety ream tight spot 8,060', packed off. Pulled up to 7,940'. Reamed back to 8,215'. Lost circulation at 8,215'. Pulled up to 7,940'. Attempt to regain circulation. Mixed LCM in pill pit. Pulled out of hole to 6,847' (92' above shoe), normal drag no swabbing. Build mud volume and mix LCM.

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12/5/2010	Trip in hole. Ream out tight spot at 8,180'. Wash and ream to bottom (lost returns at 8,215'). Pumped 66 bbls of LCM slug and displaced slug out of drill pipe (10 ppb magma fiber). Pulled out of hole to shoe (drill pipe pulling wet and hole standing full). Circulate gas cut mud (1100u peak) and build mud volume. Flow check (okay) and pulled out of hole for rotary assembly. Pulled out of hole and laid down directional tools. Rack out directional tools, unload sack mud and load out cuttings bin. Build volume and mix LCM. Made up rotary assembly: 7" ream while drilling bit sub, float sub, one 4-3/4" SDC, 6-1/8" stabilizer, one 4-3/4" drill collar, 6-1/8" stabilizer, jars, 23 joints of 3-1/2" heavyweight drill pipe. Ran in hole to 6,111'. Filled pipe and ran in hole to 7,119' (tag). Ream from 7,119' to 7,159' and lost circulation at 7,159'. Pulled up to 7,097'. Spot LCM pill, 15 bbls of 20 lbs per bbl magma fiber. Pulled out of hole from 7,997' to 6,911'. Circulated out gas cut mud. Ran in hole from 6,911' to 7,159' and lost circulation at 7,159'. Pumped 15 bbls of LCM pill. Pulled out of hole to shoe (flow check) and build volume. Mixed LCM and weight up to 9.0 ppg.
12/6/2010	Build volume, mud weight to 9.2 ppg and mix heavy LCM. Wash in hole from shoe to 7,065' with full returns. Spot ream to 7,336' – packing off some loosing approximately 25 bbls/hr mud. Circulate gas cut mud (2,700u). Wash and ream from 7,336' to 7,346', wash to 7,356'. Ream to 7,410' – packing off and continued to wash down. Circulate, mud losses are better only 5 to 10 bbls/hr. Large amounts of cuttings in returns. Wash down from 7,474' to 7,726' with full returns. Continued to ream and back-ream hole down to 8,190'. Washed and reamed tight spot from 8,190' to 8,195' and lost returns again. Back ream through tight spot. Worked tight hole from 8,195' to 8,100', pulling 120K over with no returns (lost 100+ bbls of mud). Pulled out of hole from 8,195' to shoe to build mud volume and mix LCM.
12/7/2010	Build volume and mix LCM. "A" rack motor inoperable. Assist BreitBurn mechanic remove "A" rack motor. Build volume and mix LCM. Assist BreitBurn mechanic on replacing "A" rack motor (8 hrs). Troubleshoot #1 mud pump. Service rig and top drive. Ran in hole and washed down from 6,911' to 7,236'. Wash and ream from 7,236' to 7,283' (free). Circulate gas cut mud 2,100u. Ran in hole and washed down from 7,283' to 7,400'. Circulate hole clean. Ran in hole and spot ream from 7,400' to 7,611'. Hole packed off some. Cleared and spot reamed 7,611' to 7,663'. Circulate bottoms up with full returns. Ran in hole and spot ream from 7,663' to 7,977' with full returns. Circulate bottoms up with full returns. Ran in hole and spot ream from 7,977' to 8,165' with full returns.
12/8/2010	Continued to wash and ream in hole to 8,190' (packed off, losing fluid – approximately 45 bbls). Pulled out of hole to 8,130'. Attempt to regain circulation (30 bbls). Pulled out of hole to 7,950' (no circulation), 35 bbls lost. Pulled out of hole to 7,350' (regained partial circulation). Pulled out of hole to 7,200' and regained full circulation. Pumped 25 ppg of LCM pill. Pulled out of hole to shoe at 6,939'. Service rig and equipment. Ran in hole to 7,230' (tagged bridge). Wash and ream through to 7,300'. Continued to run in hole to 8,175'. Filled drill pipe and circulate bottoms up at 7.5 bpm. Cleaned out to 8,193', lost circulation at 8,193' – losing mud. Pumped 40 bbls of 45 ppb LCM pill and chased to bottom (cleaned out to 8,222' while pumping pill). Pulled out of hole tight spots at 7,946', 40K over and at 7,800', 40K over. Back ream from 7,615' to 7,600' and continue to shoe at 6,939'. Let 40 bbls of 45 ppb. Sit and build volume. Mix LCM pill. Ran in hole from shoe. Tight spot at 7,300'. Wash through and continue to run in hole to 8,165'. Break circulation. Lost circulation 75% regained, 100% circulated. Pumped 45 bbls of 45 ppb pill. Washed from 8,165' to 8,222'. Spotted pill. Pulled out of hole from 8,222'. Tight at 8,200', 30K over. Tight at 7,385', 45K over. Continued to pull out of hole to shoe at 6,939' (condition mud and mix LCM). Ran in hole from shoe. Tight spot at 7,925'. Washed from 7,925' to 7,977'. Ran in hole and wash reamed from 8,175' to 8,222'. Lost 100% circulation and pumped 70 bbls of LCM pill. Pulled out of hole from 8,222' to shoe. Tight at 7,300', 40K over pull. Build volume and mixed LCM pill (lost 152 bbls).
12/9/2010	Build volume and rebuild LCM pill. Ran in hole and tag down at 7,365' (wash and ream to 7,375'). Continued to run in hole to 8,195' (no more tight spots). Wash and ream from 8,195' to 8,245' with no returns. Drill 7" ream while drilling hole from 8,245' to 8,257' with no returns. Pumped 50 bbls of LCM pill (45 ppb) and spot on bottom at 8,257'. Pulled out of hole to shoe 6,939'. Tight spot from 7,650' to 7,600'. Build volume (mud weight 9.5 ppg with viscosity of 46). Continued to pull out of hole to bit and laid down same. Pick up tubing tongs and air slips. Picked up 2-7/8" tubing (16 joints of 2-7/8" tubing – 504.21'). Lay down tubing tongs and air slips. Ran in hole with 16 joints of 2-7/8" tubing on drill pipe. Ran in hole to 7,400' and washed to 7,542' – lost circulation (lost 15 bbls). Pulled out of hole to shoe (no tight spots). Service rig and top drive. Clean charge pump area and monitor well (loss of 8 bbls). Circulate to shoe and lost 7 bbls of mud. Ran in hole from shoe to 7,375' tag. Washed to 7,419'. Continued to run in hole to 7,480', kelly up wash down to 7,540'. Continue to run in hole to 7,700' at report time.
12/10/2010	Continued to run in hole from 7,700' to 8,115'. Filled pipe and break circulation. Washed and reamed from 8,115' to 8,177'. Continued to circulate (full returns) at 8,177' (reciprocate pipe) while rigging up cementers. Held safety meeting. Washed tubing string down from 8,177' to 8,240' (lost returns at 8,215'). Rig cementers to drill pipe. Test pump and lines to 2,500 psi. Mix and pump 10 bbls of 10% calcium chloride water, pump 5 bbls of water. Mix and pump 20 bbls of sodium silicate water and pump 10 bbls of water. Mix and pump 21 bbls (123 cf) or 300 liner ft of cement with LCM additives. Displaced with 7 bbls of water and 66 bbls of mud at 7 bpm with 1,350 psi. Cement in place at 11:45 am. Rig out cementers. Pulled out of hole with drill pipe to 6,939' (shoe). Circulate out drill pipe until clean. Build volume in pits while waiting on cement. Pulled out of hole with 2-7/8" tubing on drill pipe. Laid down 8 joints of 2-7/8" tubing (bent). Service rig and top drive. Change oil in gear end "A" motor. Made up 7" ream while drilling tool and drilling bottom hole assembly. Run in hole to 3,399' and 6,911', filled pipe. Continued to run in hole, tight spot at 7,410'. Wash to 7,474', continue to run in hole.
12/11/2010	Ream to wash to 8,043' with full returns. Tag cement at 8,043'. Circulate one and half bottoms up. Wash and ream through cement stringers from 8,043' to 8,215', lost returns at 8,215'. Drill firm cement to 8,227'. Pulled out of hole to 7,380' (9-7/8" hole) and mix LCM pill. Trip in hole to 8,225'. Pump and displace 80 ppb LCM slug. Pulled out of hole to shoe, initially partial returns when pumping slug, then lost circulation. Drill pipe pulled wet and hole stayed full during trip to shoe. Mixed LCM pill, build volume, and assist BreitBurn mechanic. Made IBOP repairs and replace top drive gripper dies. Trip in hole to pump LCM pill. Ran in hole 8,222', 50% circulate and pump LCM pill (80 bbls of 80 ppb). Pulled out of hole to shoe. Build volume and mix LCM pill of 80 bbls of 80 ppb. Ran in hole to 7,500', tight spot. Wash to 7,538' and continue to run in hole to 8,165'. Wash and ream to 8,257'. Drill from 8,257' to 8,259'. Lost circulation pump (80 bbls of 80 ppb pill). Pulled out of hole to shoe. Build volume and mix LCM 80 bbls 80 ppb. Service rig and top drive. Pulled out of hole for pumping cement plug #2 for loss circulation zone.
12/12/2010	Continue to pull out of hole for cement plug #2. Rack back rotary assembly. Picked up 15 joints (472.7') of 2-7/8" tubing and trip in hole with 80 joints of 3-1/2" drill pipe and 4" drill pipe to 8,176'. Circulate gas cut mud, spot, and rig up BJ cementers. Wash to 8,259', set back one stand (70-90% returns). Circulate with open ended 2-7/8" tubing at 8,239' with full returns (wait on BJ supervisor from 16:30 – 17:15). Ran in hole to 8,259'. Mixed and pumped 10 bbls of water, test lines to 2,500 psi. Pumped 10 bbls calcium chloride, 5 bbls of water spacer, 4.5 bbls sodium meta-silicate, and 10 bbls water spacer. Mixed and pumped 20 bbls of 13.6 ppg cement slurry, 7.2 bbls water spacer. Displaced with 70 bbls mud (cement in place at 19:10). Had full returns during cementing operations. Pulled out of hole from 8,259' to 7,610'. Circulate pipe clean. Closed annular BOP and down squeeze at 1 bmp from 100 psi up to 500 psi where down squeezed total of 7.3 bbls of cement. Hole standing full. Pulled out of hole to shoe to work on rig ("C" motor on rack out). Assist BreitBurn mechanic to pull and fix "C" motor bad bearing. Also, change out snail on charge pump. Assist Petrol Solids with repairs to shaker.

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12/13/2010 Assist BreitBurn mechanic to pull and fix "C" motor bad bearing. Repair IBOP and test to 500 psi (okay). Circulate condition mud. Pulled out of hole from shoe and laid down 2-7/8" tubing tail (pipe spinners broke down). Lost power to rack motors – ground fault on "B" motor. Also, clean out seal on "C" motor (function test good). Continue to run in hole from 3,824' to 4,897', fill pipe (rig will not go up or down, called BreitBurn electrician and mechanic). Assist electrician and mechanic troubleshoot electrical problem. Continued to run in hole from 4,897' to 6,158', and 6,911' filled pipe. Run in hole to 7,726', little tight. Wash and ream from 7,726' to 7,852'. Circulate out gas cut mud (2,600 uts).

12/14/2010 Continue to circulate out gas cut mud (2,600 uts). Tag firm cement at 7,852'. Drill firm to medium hard cement to 8,170' with full returns. Drill from 8,170' with 10% cement returns to 8,245' and loss circulation. Pump 50 bbls of 70 ppb LCM pill. Continue to drill ahead from 8,245' with 75% returns. Returns almost to full to 8,270'. Drill from 8,270' to 8,350' with full returns. Circulate bottoms up at 8,350' as per mud logger / geologist.

12/15/2010 Circulate for mud loggers / geologist. Rotary drill ahead as directed by geologist from 8,350' to 8,416' with 70% returns. Rotary drill ahead as directed by geologist to 8,460' with 95% returns. Circulate for mud logger / geologist. Wipe hole to shoe at 6,939' (no tight hole). Repair #1 pump. Trip in hole. Safety ream bottom 60', circulate and condition mud. Lost 700 psi SPP, check surface equipment, and drop carbide. Pulled out of hole to surface (no tight hole). Found missing nozzle in bit was caused due to pressure drop. Service rig and top drive. Ran in hole 7" ream while drilling tool. Circulate and condition hole for e-logs. Spot LCM pill on bottom.

12/16/2010 Circulate gas cut mud (2,300 uts). Spot 90 ppb LCM pill into open hole. Drop rabbit. Pulled out of hole for drill pipe conveyed e-logs (2-1/8" rabbit 4" drill pipe, 1-13/16" rabbit, 3-1/2" drill pipe). Work on IBOP linkage. Made up Weatherford drill pipe conveyed logging tools. Trip in hole with logging tools to 2,756'. Test logging tools and circulate. Service rig (crew change). Ran in hole to shoe. Filled pipe and test log tools (good test). Continued to run in hole to 8,435'. Wash and circulate down to 8,450'. Circulate out gas cut mud (2,350uts). Continue to wash and circulate down to 8,460' (total depth). Pulled out of hole to 8,360'. Pump deployment dart and deploy log tools, 85' tools with gamma ray, neutron, density, induction, caliper, logs). Log from 8,445' to 6,500'. Continued to pull out of hole to down load logging tools.

12/17/2010 Lay down logging tools, process logs, and rig out loggers. Service rig and equipment. Trip in hole with clean out assembly 6-1/8" bit, N/B stab with float, one SDC, stab one drill collar, stab jars, 23 joints of heavyweight drill pipe, 80 joints of 3-1/2" drill pipe, cross-over, 4" drill pipe to surface. Clean out bridge from 8,445' to 8,450'. Ream to bottom at 8,460'. Circulate and condition mud, build volume. Circulate at 6 bpm to ensure hole is stable for cementing. No losses. Pumped 80 bbls of 80 ppb magma-fiber pill. Pulled out of hole for 5" liner. Lay down stabs and bit. Held safety meeting with casers and crew. Pick up and rigged up casers. Found 6 bad joints of flush max and lay aside. Picked up 46 joints (1,747') of 5", 18#, L-80 Hydril 511 flush joint liner. Start to run in hole with 5", 18#, L-80 Hydril liner. Picked up liner hanger where top of liner will be at 6,685' (liner lap 258.44').

12/18/2010 Change bails, rig down, and load out B&L casers. Made up liner hanger assembly and stand back top drive – cement head. Trip in hole with 46 joints of 5", 18#, L-80 Hydril 511 liner on 4" drill pipe. Filled pipe each 10 stands to 8,441'. Made up top drive with cement head. Liner got stuck at 8,441' (~19' off bottom) and attempt to circulate through liner. Work 5" liner (max pull 275k / 130k over normal drag). Pressure up to 1,600 psi and up-plugged liner. Circulate out gas cut mud. Circulate and attempt to work 5" liner free at 8,441'. Circulate gas cut mud at 4 bbls/min (2,500 uts) and work pipe. Continue to circulate gas cut mud at 4 bbls/min and work 5" liner 275k / 130k over normal drag. Spot 250 gal CFR in mud system and continue to try to free liner with full returns.

12/19/2010 Circulate with full returns at 8,441' (shoe). Drop ball and set liner hanger slips at 2,200 psi. Shear ball seat at 2,800 psi and unscrew from liner. Rack back one drill pipe single and made up cement head. Circulate while rigging up BJ cementers. Held safety meeting. BJ cementers pumped 20 bbls of mud clean and 20 bbls of water. Lead cement of 760 cf (312 sacks / 135 bbls) of Class G cement with lost circulation additives (8 lb/sk Kolite) cement mixed at 12.0 ppg. Displaced using 106 bbls of lease water, plug did not bump. Full circulation during cement operations. Float held okay. Cement in place at 11:50 on 12/19/2010 (traces of pre-flush at bottoms up while changing well over to lease water). Test liner top packer 1,000 psi for 5 minutes – okay. Circulate and change well over to lease water. Rig down cementers and rack back cement head. Pulled out of hole with 4" drill pipe and liner tools. Lay down liner tools and cement heads. Ran in hole with 3-1/2" drill pipe heavyweight drill pipe and 4-3/4" drill collars. Pulled out of hole and laid down 3-1/2" drill pipe heavyweight drill pipe and 4-3/4" drill collars. Service rig and top drive. Clean out sand trap and ready pits to be cleaned by third party cleaners.

Completion

12/20/2010 Clean mud pits, pit rooms and transfer mud to east tank. Pull and haul KCL / Polymer fluid from east tank while tripping in with 7" casing scraper. Clean mud pits while trip in hole with 6-1/8" bit and 7" casing scraper (tag at 6,667' – top of liner). Pulled out of hole from 6,667' with 6-1/8" bit and scraper. Lay down same. Off load truck of 2-3/8", 47#, N-80 EUE tubing. Laid out and strap (1,931'). Rig up tubing equipment on rig floor. Service rig, top drive and rack. Picked up and made up 4-1/8" bit and 5" scraper on 2-3/8" tubing. Ran in hole to 1,931' with 4" drill pipe.

12/21/2010 Trip in hole with 4-1/8" bit and 5" casing scraper on 64 joints of 2-3/8" tubing and 4" drill pipe tagging at 8,392' (4' high of float). Mixed 5% KCL with lease water and roll hole over with same. Pulled out of hole with 4-1/8" bit and scraper for CBL/USIT log. Rig up Schlumberger. Ran in hole with CBL/USIT logs. Tag at 8,392' (PBTD). Logging tool not functioning. Pulled out of hole to surface. Troubleshoot logging tools. Laid down and swap out with back up log tools (CBL/USIT). Ran in hole with Schlumberger back-up CBL/USIT logs.

12/22/2010 Run Schlumberger CBL/SCMT log from 8,390' to 2,500' with top of cement at 7,208'. Rig down Schlumberger. Wait on orders. Spot and rig up Tiger Wireline. Monitor well. Ran in hole with perf guns on wireline. Correlate to perf at 8,198' – 8,200', 4 spf (no fire). Pulled out of hole with perf gun, change out firing head. Ran in hole with perf guns on wireline, correlate to perf at 8,198' – 8,200' (4 spf). Pulled out of hole with perf gun. Rig down Tiger wireline. Attempt to inject into perf holes (air in fluid). Picked up and made up 4-1/8" bit on 5" scraper. Attempt to establish injection rate pressure up to 500 psi at 16 bpm. Bled down to 300 psi quickly then held steady at 100 psi. Unable to establish injection rate without possibly breaking down formation.

12/23/2010 Trip in hole with casing scraper to 6,900' and pull out of hole to top of liner. Shut in well and establish injection rate of 0.16 bpm at 400 psi, well bled down and held 100 psi. Bleed off pressure and open well. Wait on orders. Pulled out of hole with casing scraper for TCP guns (unload and measure 2-7/8" completion tubing). Strap, unload and pick up TCP guns/unload and measure 2-7/8" completion tubing. Pick up 3-1/8" TCP guns (total of 303' of TCP guns and blank pipe). Top shot to be at 7,900' and bottom shot at 8,182'. Trip in hole with TCP guns. Shut down due to top drive "F" motor out at 6,560'. Notified mechanic. Assist mechanic in removing the "F" motor. Removed "F" motor and bypass. Continued to run in hole with TCP assembly to 8,199'. Rig up wireline and run in hole to correlate using open hole log. Tools stopped at 3,400' still in 4" drill pipe. Run in hole and pump logging tools down hole. Run in hole and start to correlate gamma ray / RA marker with open hole E-logs.

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12/24/2010	Run in with wireline for perf correlation. Pull wireline and rig down wireline truck. Made (16') correction to TCP guns to correlate with Gamma log. Drop and pump ball, pressured up to 2,800 psi when drill pipe banged and jumped up. Well flowed approximately 11 – 12 bbls of fluid then went static. Monitor well (-1/4 bbls of fluid loss in 5 min). Pulled out of hole, laid down and load out TCP guns (firing head intact, firing head inoperable – therefore no TCP guns fired). Trip in hole with 4" drill pipe to just above liner top (204 joints). Begin to pull out of hole and lay down 4" drill pipe on to trailer. Lay down total of 110 joints and secure onto trailer. Continue to pull out of hole and lay down 4" drill pipe.
12/25/2010	Lay down 4" drill pipe and pull wear bushing. Change bales and rig up to pick up 2-7/8" tubing. Rabbit and pick up 2-7/8", 6.5#, N-80 8rd tubing completion / work string with no go to 6,574' (212 joints). Rig up and pump 57 bbls of 0.5% KCL down tubing (1-1/2 tubing volume). Pulled out of hole standing back 2-7/8" completion / work string. Blew 2 half inch lines on top drive. Tracing down / bypass hydraulic lines to top drive. Both mechanics notified.
12/26/2010	Continue pulling out of hole with 2-7/8" completion / work string (load 4" drill pipe on trailer to haul to Sawtelle). Picked up 22 joints of 2-7/8" tubing and stood back in derrick (load 4" drill pipe on trailer to haul to Sawtelle). Pick up TCP guns and trip in hole with 2-3/8" and 2-7/8" tubing (spot and rig up wireline truck). Held safety meeting and rig up to run wireline correlation log. Pump down wireline RA / Gamma ray correlation log and correlate to open hole e-logs guns on depth. Make 9' correction (pull up hole 9'). Dropped ball and pumped down hole, pressure up to 2,800 psi. Felt jerk on tubing string same as last time. Pulled out of hole standing back all tubing keeping the hole full. Pulled out of hole with tubing and guns. Break off firing head (firing head had debris with flour sand in head). No shots fired. Spoke to Baker about running guns on wireline. Lay down 3-1/8" TCP perf guns. Spoke to Larry from Baker, they ran a simulation to run guns on wireline, looked to be okay. Made up 5" scraper on 2-3/8" and 2-7/8" tubing. Will run in hole to 8,182'. Trip in hole with 5" scraper.
12/27/2010	Continue to trip in hole with 5" scraper to 8,204' – no sand fill at holes at 8,198' to 8,200'. Circulate hole clean (4) casing volumes. Take samples of fluid checking for sand, some minor sand in fluid samples. Pulled out of hole and laid down 5" casing scraper. Rigged up Baker Atlas. Installed / tested lubricator and diverter. Ran in hole and correlate cased hole collar log to perf strip log using liner top and short joint. Perf with 3-1/8" perf guns at 6 spf at 60 degree phase, perf the following: Run #1: from 8,165' to 8,182' (17'), Run #2: from 8,112' to 8,127' (15'), Run #3: from 8,040' to 8,057' (17'), Run #4: from 7,917' to 7,922' (5'), Run #5: from 7,900' to 7,905' (5'). Total of 59' perforated, all shots fired. Fluid level dropped approximately 100' after shooting per intervals. Rig down Baker wireline unit. Monitor well (no flow). Tally and pick up 2-7/8" flush joint completion string, and stand back. Fill well.
12/28/2010	Stood back 2-7/8" HYD tubing. Made up gas anchor, rod pump barrel and two joints of HYD A-95 tubing and hydrotest assembly to 2,500 psi. Run 34 joints of 2-7/8" HYD A-95 6.5# tubing hydrotesting to 2,500 psi. Made up 5-1/2" No-go and HYD / 8rd cross-over. Run 212 joints of 2-7/8" 6.5# N-80 tubing to bottom gas anchor 7,872', 7,807' (pump intake). No go at 6,635', hydrotesting to 2,500 psi. Rig down and load out hydrotester. Made up and land tubing hanger / casing shuck into tubing spool. Nipple down Class III 3M BOPE. Rig up to run rods. Pick up TWE plunger to 6 1-1/2" K-Bars, start to pick up new sucker rods. Picked up 2-1/4 x 60 plunger. 6 1-1/2" x 20 K-bars, 40 – 3/4", 142 – 7/8", 75 – 1" new sucker rods. Space, sub-up, and clamp off rods. Rig down rod equipment and prepare well to bring on to production.
12/29/2010	Installed hydraulic lines to cylinder pump and install flow lines (rigging down and hauling out drilling equipment). Pull HRP, re-space rod pump, and install HRP. Test hydraulic pump and production equipment – okay. Slide rig to north cellar and dismantle skid beams. Final Report – Kenai will start one crew daytime operation.

REC'D MAR 03 2011

NATURAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

No. P 110-0882

054 (Field Code)

PERMIT TO CONDUCT WELL OPERATIONS

03 (Area Code)

CRITICAL WELL

00 (New Pool Code)

-- (Old Pool Code)

Brad Pierce, Agent
BREITBURN ENERGY CO. L.P.
515 South Flower St., Suite 4800
Los Angeles, CA 90071

Cypress, California
January 21, 2011

Your **supplementary** proposal to **drill** well **"West Pico" 59**, A.P.I. No. **037-27133**, Section **30**, T. **1S**, R. **14W**, **S.B.** B. & M., **Beverly Hills** Field, **East** area, **Hauser** pool, **Los Angeles** County, dated **12/22/2010**, received **12/22/2010** has been examined in conjunction with records filed in this office.

THE PROPOSAL, COVERING WORK ALREADY COMPLETED IN ACCORDANCE WITH PRIOR AGREEMENT, IS APPROVED PROVIDED:

1. **THIS DIVISION SHALL BE NOTIFIED TO:**
   a. Witness a production water shutoff test within **60** days after the well is placed on production.

JCH:jch

cc: Update
EDP
Los Angeles Fire Department

BLANKET BOND

Engineer: John Huff

Phone: 714/816-6847

Elena M. Miller
State Oil and Gas Supervisor

By _____
For M. Ali Khan, *Acting District Deputy*

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended. Issuance of this permit does not affect the Operator's responsibility to comply with other applicable state, federal and local laws, regulations and ordinances.

OG 111

30

DEPARTMENT OF CONSERVATION

Managing California's Working Lands

Division of Oil, Gas, & Geothermal Resources

5816 CORPORATE AVENUE • SUITE 200 • CYPRESS, CALIFORNIA 90630-4731

PHONE 714 / 816-6847 • **FAX** 714 / 816-6853 • **WEB SITE** conservation.ca.gov

TO: "West Pico" 59, API # 037-27133
Beverly Hills Field, Los Angeles County

FROM: John Huff, Associate Engineer
DOGGR

DATE: 12/22/2010

SUBJECT: VERBAL APPROVAL

Harold Im/JCH: Supplementary notice submitted regarding well completion. Drilling rig currently on well will complete well. OK to proceed.

P# 110-0882

NATURAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

FOR DIVISION USE ONLY		
Bond	Forms OGD114	OGD121
BB		12-23-10 KJ

SUPPLEMENTARY NOTICE

Detailed instructions can be found at: www.conservation.ca.gov/dog/

A notice to the Division of Oil, Gas, and Geothermal Resources, dated 12/22/2010, stating the intentic ı to

Drill (Drill, Rework, Abandon) well West Pico #59, API No. 037-27133,

Sec. 30, T. 1S, R. 14W, SB B.&M., Beverly Hills Field, Los Angeles County

should be amended because of changed conditions.

The complete casing record of the well (present hole), including plugs and perforations, is as follows: (Attach we bore schematics diagram also.)
Please see Attachment #1 and current wellbore schematics.

The total depth is: 8,460 feet. The effective depth is: 8,441 feet.

Present completion zone(s): N/A (Name). Anticipated completion zone(s): Hauser (Name).

Present zone pressure: N/A psi. Anticipated/existing new zone pressure: 1,000 psi.

We now propose: (A complete program is preferred and may be attached.)
Please see attached complete program.

If well is to be redrilled or deepened, show proposed coordinates (from surface location) and true vertical depth at total depth: _____ feet _____ (Direction) and _____ feet _____ (Direction) Estimated true vertical depth: _____

Will the Field and/or Area change? Yes☐ No☒ If yes, specify New Field: _____ New Area: _____

The Division must be notified immediately of changes to the proposed operations. Failure to provide a true and accurate representation of the well and proposed operations may cause rescission of the permit.

Name of Operator			
BreitBurn Energy Company, LP			
Address: 515 South Flower Street, Suite 4800		City/State: Los Angeles / CA	Zip Code: 90071
Name of Person Filing Notice: Brad Pierce	Telephone Number: 213-225-5900 ext. 258	Signature: for Brad Pierce	Date: 12/22/2010
Individual to contact for technical questions: Brad Pierce	Telephone Number: 213-225-5900 ext. 258	E-Mail Address: bpierce@breitburn.com	

This notice must be filed, and approval given, before the operations begin. If operations have not commenced within or ı year of the Division's receipt of this supplementary notice, this notice will be considered cancelled.

OG123 (1/09)

CRITICAL WELL DEFINITION

As defined in the California Code of Regulations, Title 14, Section 1720 (a), "Critical well" means a well within

(1) 300 feet of the following:
  (A) Any building intended for human occupancy that is not necessary to the operation of the well; or
  (B) Any airport runway.
(2) 100 feet of the following:
  (A) Any dedicated public street, highway or the nearest rail of an operating railway that is in general use;
  (B) Any navigable body of water or watercourse perennially covered by water;
  (C) Any public recreational facility such as a golf course, amusement park, picnic ground, campground or any other area of periodic high-density population; or
  (D) Any officially recognized wildlife preserve.

WELL OPERATIONS REQUIRING BONDING

1. Drilling, redrilling, or deepening any well.
2. Milling out or removing a casing or liner.
3. Running and cementing casing or tubing.
4. Running and cementing liners and inner liners.
5. Perforating casing in a previously unperforated interval for production, injection, testing, observation, or cementing purposes.
6. Drilling out any type of permanent plug.
7. Reentering an abandoned well having no bond.

This form may be printed from the DOGGR website at www.conservation.ca.gov/dog/

Supplementary Notice:

Attachment #1:

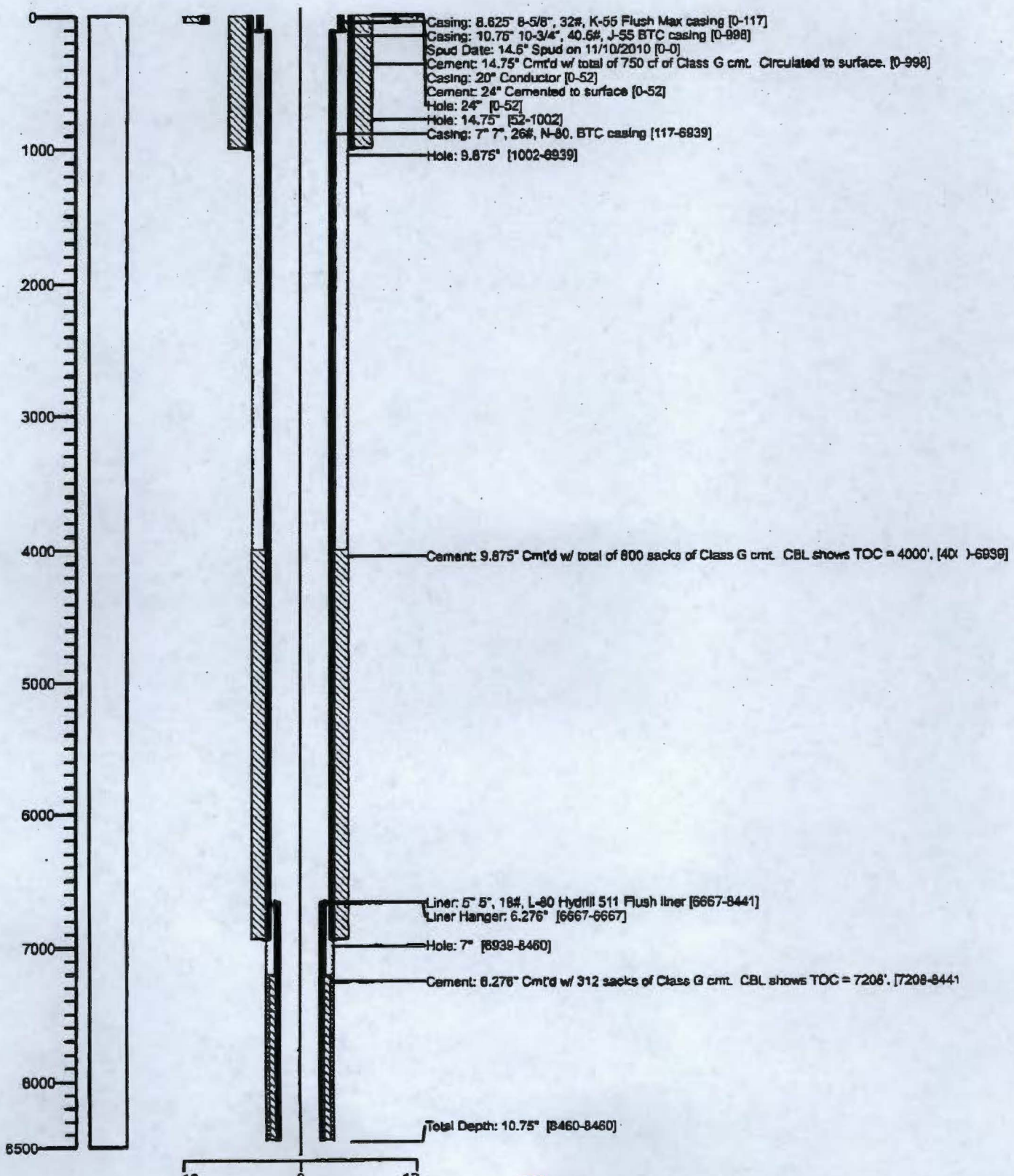
Company: BreitBurn Energy Company, LP
Field: Beverly Hills
Lease: West Pico
Well: #59
API#: 037-27133
Date: 12/22/2010

The complete casing record of the well (present hole), including plugs and perforations, is as follows:

Casing:

- 20" conductor cemented at 52' to surface.
- 10-3/4", 40.5#, J-55 BTC casing set at 998'. Cemented with lead slurry of 139 sacks of Class G cemen (461 cf, 12.5 ppg, 2.09 cf/sk) and tail slurry of 135 sacks of Class G cement (191 cf, 14.5 ppg, 1.56 cf/sk) Circulate 2 bbls of cement to surface.
- 7", 26#, N-80, BTC casing set at 6,939' with 8-5/8", 32#, K-55 Flush Max from 117' to surface . Cementec with slurry of 800 sacks of Class G cement (1326 cf, 13.5 ppg, 1.66 cf/sk). TOC = 4,000' (CBL shows gooc cement up to 4,000').
- 5", 18#, L-80 Hydril 511 flush max liner, set at 8,441'. TOL = 6,667'. Cemented with slurry of 740 sacks o Class G cement (1,225 cf, 13.5 ppg, 1.66 cf/sk). TOC = 7,208' (CBL shows good cement up to 7,208').

WP59 BreitBurn Energy Company, L.P.
API: 037-27133 Lease: West Pico; Status: Producer



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BreitBurn Energy
West Pico 59
API # 04-037-27133
Initial Completion and Test
AFE# C110223

PURPOSE
Perforate and test O'Connell and Meyer 1.

HISTORY
2010nov10: Spud
2010dec16: TD = 8460'

The DOG history for drilling and completing the well will be submitted after completion.

SPECIAL CONDITIONS

WELL DATA

Current status:	completion
KB Elevation:	171.1'
KB Height:	12'
Ground Elevation:	159.1'
Effective CO depth:	Float collar @ 8397'
Casing/liner record:	Casing details shown on attached well bore diagram Capacity of 7", 26#, N80 casing @ .0382 bbls/ft = 255 bbls Capacity of 5", 18#, N80 liner @ .0177 bbls/ft = 31 bbls
Perforation record:	None
Tubing Record:	None Capacity of 2-7/8", 6.5#, N80 tubing = .00579 bbls/ft Capacity of 2-3/8", 4.7#, N80 tubing = .00387 bbls/ft
Rods and pump:	None
Fluid in hole:	Annulus: Displaced plug with lease water
Kill Fluid:	Lease water
Completion Fluid:	5% KCL fluid gradient = 0.4469 psi/ft
Anticipated reservoir pressures:	

CONTACT INFORMATION

company	position / service	name	office	cell	
Breitburn	Foreman – Sawtelle / West Pico	Pat Vigeant	562.903.1095x107	805.320.174(	
Breitburn	Engineering Manager	Brad Pierce	213.225.5900x258	310.261.166(	
Breitburn	Production Engineer	Dan Fouts	213.225.5900x251	925-528-913:	
Breitburn	Operations Manager	Jeff Winkler	213.225.5900x222	310.261.123:	
Breitburn	Geologist	Jon Kuespert	213.225.5900x224	213.225.591(	
Baker Atlas	Perforating	David Kassisieh	661.765.2020		
Baker Atlas	Perforating	Darrell Sizemore	661.334.3800x216	661.342.474(	
Black Gold	Artificial lift	Ryan Bair	562.595.4475	714.403.350:	
Black Gold	Artificial lift	Mike Bair	562.595.4475	562.400.284(	
DOGGR	State Regulatory	John Huff	714.816.6847	714.816.782:	
Schlumberger	Logging	DISPATCH	661.864.4800		
Schlumberger	Logging Engineer	Julien Roubaud	562.595.9898	847.830.644:	
Tiger Wireline	Perforating	Chad	562.426.4044		
Tiger Wireline	Perforating – Manager	Joe baxter	562.426.4044	562.755.566(	

GENERAL NOTES AND REQUIREMENTS

WARNING: **West Pico does not have an H_2S issue, yet it is important to beware of the potentia l of hydrogen sulfide gas (H_2S) and its inherent dangers while performing well work ind to take the appropriate safeguards for dealing with H_2S gas.**

WARNING: **Some chemicals specified in this program have toxic properties. The Wellw ork Supervisor and the personnel who will be working with this program should be familiar with the inherent dangers of the chemicals and appropriate safeguard: to prevent accidental injury. Please refer to your MSDS for proper precauti ns regarding:**

- **5% KCL water**

NOTE: **Before performing job, discuss potential concerns, job procedures, equipment, ind scheduling with Engineering, Wellwork Supervisor, and Rig Supervisor.**

NOTE: **A Safety Meeting shall be held at the job site prior to commencing work v ith BreitBurn Supervisor, all involved contract personnel, and appropriate BreitB irn personnel to discuss job details. This meeting shall be documented. Some of the topics to discuss are as follows:**

- **BOP Drills**
- **Perforating Safety**
- **Lock Out – Tag Out**

NOTE: **A safety meeting shall be held at the job site prior to commencing perfora ing operations with BreitBurn supervisor, all involved contract personnel, ind appropriate Breitburn personnel to discuss job details and review perforating ser ice company Perforating Safety Checklist.**

NOTE: **If there are any questions concerning the procedure, contact Dan Fouts @ 925-! 28-9131 (mobile) or 213.225.0251 (office).**

PROCEDURE:

1. Install 5000 psi BOPE with 2-7/8" pipe rams. Test BOPE to 3000 psi.

2. Pick up bit and positive casing scraper for 7", 26#, N-80 on 2-7/8" tbg. Clean out to TOL @ 6667'. POOH and lay down bit and scraper.

3. Pick up bit and positive casing scraper for 5", 18#, N-80 on 2-7/8" tbg. Clean/drill out to 8380' (Note: PBTD = FC = @ 8397') Circulate hole clean. Turn hole over to 5% KCl. (Casing volume = 286 bbls). POOH and lay down bit and scraper.

NOTE: Contact Breitburn engineering with TOC immediately after bond logging and prior to RDMO Schlumberger.

4. MIRU Schlumberger Wireline. RIH USIT with inline wheeled centralizers and attempt to free-fall to bottom. Log from PBTD across 5" liner top @ 6667' to TOC inside 7" casing. POOH. RDMO Schlumberger.

5. IF USIT can not free-fall to bottom, POOH and rig down Schlumberger. Pick up drill pipe and tubing with wireline re-entry guide, mule shoe, bell collar, or similar on bottom. RIH to +/- 5000' (hole angle <50 degrees). Install Schlumberger pump-in sub.

6. RU Schlumberger 1-11/16" SCMT. RIH to 2500'. Engage pump as per Schlumberger recommendation bpm and pump down tool to +/- 5000'. Log from PBTD across 5" liner top @ 6667' to TOC inside 7" casing. POOH. RDMO Schlumberger.

7. Contact John Huff @ DOGGR to discuss bond log and determine need for liner lap tests. Conduct positive and negative liner lap tests as required.

8. Pick up 2-7/8" 6.5# N80 EUE 8rd x 2-3/8" 4.7# N80 EUE 8rd tubing.

---

9. MIRU Tiger Wireline. Correlate to Schlumberger SCMT log dated 22-Dec-2010. Shoot 2 @ 4spf @ 8198'-8200'. RDMO Tiger Wireline.

10. Fill hole with 5% KCl water. Pressure up against perfs to maximum of 500 psi at ¼ bpm or minimal pump rate. If pressure bleeds, repeat. Establish injection rate if possible. If pressure does not bleed off, call isolation good and proceed to step 15.

11. RIH tubing-set drillable cement retainer for 5" 18# casing on 2-3/8" x 2-7/8" tbg. Set retainer @ 8150' +/-. Verify injection rate. Sting tubing out of retainer. Pressure up to 1000 psi. Bleed off pressure.

12. MIRU cementing company (TBD) to pump 10 bbls standard cement as per Drill Tek recommendation. (NOTE: Have cementing company be prepared to pump additional 10 bbls.) Pump cement to tail. Sting into retainer. Pump 3-5 bbls cement. Begin hesitating. Pump cement at ½-1 bbl increments seeking lock up. If cement does not lock up, over displace cement with 5-10 bbls of KCL water and repeat this step. POOH standing back tubing.

13. RIH bit/mill and drill out retainer and cement. Note depths.

14. Repeat pressure test as per Step 10 (with tubing in hole) and Steps 11-13 if necessary. PO OH standing back tubing.

NOTE: Prior to running TCP guns, review with the rig crew and other operati ns personnel the Baker-Hughes TCP Manual "TCP Explosives Safety Policies : nd Procedures" dated August 2003.

15. MIRU Baker Atlas. Prep to run tubing conveyed perforating guns on 2-3/8" x 2-7/8" tubin . Run TCP guns from as follows from bottom to top:
    a. 282' – 3-1/8" EHC Predator XP TCP guns
    b. 10' gun spacer
    c. Firing head
    d. Diverter sub
    e. 2 joints 2-3/8" tubing
    f. RA Marker collar
    g. 2-3/8" x 2-7/8" tubing to surface

16. RIH with Baker Atlas wireline through tubing GR/CCL and correlate to Weatherford open hc le logs dated 12/17/2010. Pump down tools as required with 5% KCl. Space out TCP guns tc perforate interval 7900'-8182' (total TCP gun length = 282', total perfs = 59') as follows:

Table #1: Proposed Perforations

Zone	TOP perf	BTM perf	Interval
H1	7900	7905	5
H1	7917	7922	5
H2	8040	8057	17
H2	8112	8127	15
H2	8165	8182	17
Totals			**59**

17. Nipple down BOPE and Nipple up wellhead and connect lines to production. Install Ba ker Atlas wellhead recording device to verify that TCP guns fire. Drop 5/8" ball and pressure u to detonate TCP guns.

18. POOH standing back tubing. Lay down and inspect TCP guns to verify all shots fired. RD MO Baker.

19. RIH tubing pump (as per Black Gold) and 2-7/8" N80 6.5# Hydril 895 x 2-7/8" N80 6.5# E UE 8rd tubing. Nipple down BOPE .

20. Nipple up rod rigging. RIH rods as per Black Gold. Install HRP cylinder.

21. Connect HRP unit, flowline, etc.

22. Skid rig to WP 20.

NATURAL RESOURCES AGENCY
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

No. T 111- 0154

REPORT ON OPERATIONS

CRITICAL WELL

Cypress, California
April 28, 2011

Brad Pierce, Agent
BREITBURN ENERGY CO. L.P.
515 S. Flower Street, Suite 4800
Los Angeles, CA 90071

Your operations at well **"West pico" 59,** A.P.I. No. **037-27133**, Section **30**, T. **1**S, R. **14**W, S.B. B & M., **Beverly Hills** Field, **Los Angeles** County, were witnessed on **12/01/10**. **Nazee Heda,** representative of the supervisor, was present from **2400** to **0300.** There was also present **Mark Stevenson, Rig Kenai** .

The operations were performed for the purpose of testing the blowout prevention equipment and installation.

DECISION: APPROVAL

DEFICIENCIES: None.

DEFICIENCIES NOTES AND CORRECTED:
1. Need dual control valves on the choke line next to the wellhead.

UNCORRECTABLE DEFICIENCIES: None

CONTRACTOR: **Kenai**

Elena M. Miller
State Oil and Gas Supervisor

By:
For: M, Ali Khan, *Acting District Deputy*

JHdj

cc: Update

OG109 07-08-09

API No. 03727133 DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES T 111-0154

BLOWOUT PREVENTION EQUIPMENT MEMO

Operator BreitBurn Well "West pico" 59 Sec. 30 T. 1s R. 14W
Field Beverley Hills County Los Angeles Spud Date 11/09/2010

VISITS:	Date	Engineer	Time	Operator's Rep.	Title
1st	12/01/2010	NAZEE HEDA	(2400 to 300)	Mark Stevenson	Rig MGR Kenai
2nd	12/3/10		(2100 to 0200)		

Contractor Kenai Rig # 101 Contractor's Rep. & Title Mark Stevenson
Casing record of well: 20" cem 52'; 10 3/4" cem. 998'; 7" cem 6939', TD 7405' (drilling)

OPERATION: Testing (inspecting) the blowout prevention equipment and installation. Critical well? Y ☒ N ☐
DECISION: The blowout prevention equipment and its installation on the 103/4, 7" Hanging " casing are approved.

Proposed Well Opns: DRILL . MACP: psi
Hole size: " fr. ' to ', " to ' & " to '

REQUIRED BOPE CLASS: IIIB3M

CASING RECORD OF BOPE ANCHOR STRING					Cement Details	Top of Cement	
Size	Weight(s)	Grade(s)	Shoe at	CP at		Casing	Annulus
103/4	40.5	J55	998'			6845	~~6939~~ 4000' CBL
7"	26	N80	6939'				

BOP STACK

API Symb.	Ram Size (in.)	Manufacturer	Model or Type	Vert. Bore Size (in.)	Press. Rtg.	Date Last Overhaul
A	CSO	Hydril	GK	13 5/8	3000	
		Shaffer	LWS	13 5/8	3000	
		Shaffer	LWS	13 5/8	3000	

TEST DATA

Gal. to Close	Recov. Time (Min.)	Calc. GPM Output	psi Drop to Close	Secs. to Close	Test Date	Test Press.
11.36						1200
3.55						1000
3.55						1000

ACTUATING SYSTEM

Accumulator Unit(s) Working Pressure 3000 psi
Total Rated Pump Output gpm Fluid Level
Distance from Well Bore 50 ft. ok

	Accum. Manufacturer	Capacity	Precharge
1	Koomey	1100gal.	2800psi
2		gal.	psi

CONTROL STATIONS	Elec.	Hyd.	Pneu.
Manifold at accumulator unit			
Remote at Driller's station			
Other:			

EMERG. BACKUP SYSTEM			Press.	Wkg.Fluid
N_2 Cylinders	1	L= 55 "	2200	7.10gal.
Other:	2	L= 55 "	2200	7.10gal.
	3	L= 55 "	2250	7.42gal.
	4	L= 55 "	2700	10.27gal.
	5	L= 55 "	2500	9.00gal.
	6	L= "		gal.
		TOTAL: 40		gal.

HOLE FLUID MONITORING EQUIPMENT		Alarm Type: Audible	Alarm Type: Visual	Class
x	Calibrated Mud Pit	x	x	A
x	Pit Level Indicator	x	x	B
x	Pump Stroke Counter	x	x	
x	Pit Level Recorder	x	x	
	Flow Sensor			C
	Mud Totalizer			
	Calibrated Trip Tank			
	Other:			

TOTAL: 18.46

AUXILIARY EQUIPMENT

		No.	Size (in.)	Rated Press	Connections: Weld	Connections: Flange	Connections: Thread	Test Press.
x	Fill-up Line							
x	Kill Line		2	3M				
x	Control Valve(s)			3M				
x	Check Valve(s)			3M				1200
x	Aux. Pump Cnnct.							1200
x	Choke Line		31/2	3M				1200
x	Control Valve(s)	6		3M				1200
x	Pressure Gauge							
x	Adjstble Choke(s)	2	3&2	3M				1200
x	Bleed Line		3					
x	Upper Kelly Cock							1200
%	Lower Kelly Cock		4	3M				1000
x	Standpipe Valve							1200
x	Stndpipe Pres. Gau.							
x	Pipe Safety Valve		31/2	3M				1200
x	Internal Preventer		31/2	3M				1000

Hole Fluid Type	Weight	Storage Pits (Type & Size)
water	8.4	450bbl

REMARKS AND DEFICIENCIES:
NEED DUAL CONTROL VALVES ON THE CHOKE LINE NEXT TO THE WELLHEAD

OGD9 (9/06)

CONTRACTOR: KENAI

UNCORRECTABLE DEFICIENCIES:

DEFICIENCIES NOTED AND TO BE CORRECTED:

DEFICIENCIES CORRECTED:
NEED DUAL CONTROL VALVES ON THE CHOKE LINE NEXT TO THE WELLHEAD

HRP = Hydraulic Rod Pump?

Breitburn Energy LLC
7" & 8-5/8" Intermediate Casing

WELL NO: WP 59 FIELD: East Beverly Hills REPORT BY: Thompson/Lugo DATE: 11/30/10

No.	Length	Total	Depth	X	No.	Length	Total	Depth	X	No.	Length	Total	Depth		
Shoe Depth			6939.00												
						Cumm	2542.90	4396.10			Cumm	5123.56	1815.44		
Float Shoe	1.68	1.68	6937.32		60	42.50	2585.40	4353.60	C	121	42.15	5165.71	1773.29		
1	45.40	47.08	6891.92	TC	61	42.64	2628.04	4310.96		122	42.18	5207.89	1731.11	C	
2	45.46	92.54	6846.46	TC	62	42.18	2670.22	4268.78	C	123	42.20	5250.09	1688.91		
Float Collar	1.35	93.89	6845.11		63	42.52	2712.74	4226.26		124	42.70	5292.79	1646.21	C	
3	45.28	139.17	6799.83	TC	64	42.54	2755.28	4183.72	C	125	41.83	5334.62	1604.38		
4	44.35	183.52	6755.48	TC	65	42.45	2797.73	4141.27		126	41.84	5376.46	1562.54	C	
5	45.31	228.83	6710.17	TC	66	42.28	2840.01	4098.99	C	127	42.50	5418.96	1520.04		
6	42.20	271.03	6667.97	TC	67	42.20	2882.21	4056.79		128	41.87	5460.83	1478.17	C	
7	44.85	315.88	6623.12	TC	68	42.50	2924.71	4014.29	C	129	42.50	5503.33	1435.67		
8	45.00	360.88	6578.12	TC	69	42.55	2967.26	3971.74		130	42.18	5545.51	1393.49	C	
9	45.20	406.08	6532.92	TC	70	42.13	3009.39	3929.61	C	131	42.20	5587.71	1351.29		
10	45.26	451.34	6487.66	TC	71	42.20	3051.59	3887.41		132	42.50	5630.21	1308.79	C	
11	40.22	491.56	6447.44	TC	72	42.05	3093.64	3845.36	C	133	42.66	5672.87	1266.13		
12	45.11	536.67	6402.33	TC	73	42.05	3135.69	3803.31		134	42.65	5715.52	1223.48	C	
13	44.86	581.53	6357.47	TC	74	42.03	3177.72	3761.28	C	135	42.18	5757.70	1181.30		
14	45.21	626.74	6312.26	TC	75	42.13	3219.85	3719.15		136	42.20	5799.90	1139.10	C	
15	45.30	672.04	6266.96	TC	76	42.53	3262.38	3676.62	C	137	42.64	5842.54	1096.46		
16	45.72	717.76	6221.24	TC	77	42.48	3304.86	3634.14		138	42.45	5884.99	1054.01	C	
17	45.33	763.09	6175.91		78	42.50	3347.36	3591.64	C	139	42.05	5927.04	1011.96		
18	45.18	808.27	6130.73	TC	79	42.74	3390.10	3548.90		140	42.71	5969.75	969.25	C	
19	42.23	850.50	6088.50		80	42.20	3432.30	3506.70	C	141	42.45	6012.20	926.80		
20	40.81	891.31	6047.69	TC	81	42.68	3474.98	3464.02		142	8.45	6020.65	918.35	Dressed 7" Csg Stub	
21	42.58	933.89	6005.11		82	42.72	3517.70	3421.30	C		0.96	6021.61	917.39	Casing Patch	
22	42.56	976.45	5962.55	C	83	42.41	3560.11	3378.89			2.10	6023.71	915.29	8rd. x BTC X-O	
23	42.20	1018.65	5920.35		84	42.18	3602.29	3336.71	C	143	31.00	6054.71	884.29	Short joint	
24	42.47	1061.12	5877.88	C	85	42.73	3645.02	3293.98		144	42.62	6097.33	841.67		
25	42.05	1103.17	5835.83		86	42.55	3687.57	3251.43	C	145	42.48	6139.81	799.19		
26	42.21	1145.38	5793.62	C	87	42.07	3729.64	3209.36		146	42.55	6182.36	756.64		
27	42.27	1187.65	5751.35		88	42.18	3771.82	3167.18	C	147	42.18	6224.54	714.46		
28	42.00	1229.65	5709.35	C	89	42.55	3814.37	3124.63		148	42.50	6267.04	671.96		
29	42.72	1272.37	5666.63		90	42.20	3856.57	3082.43	C	149	42.48	6309.52	629.48		
30	42.33	1314.70	5624.30	C	91	42.18	3898.75	3040.25		150	41.12	6350.64	588.36		
31	42.53	1357.23	5581.77		92	42.00	3940.75	2998.25	C	151	42.70	6393.34	545.66		
32	42.40	1399.63	5539.37	C	93	42.58	3983.33	2955.67		152	42.20	6435.54	503.46		
33	42.19	1441.82	5497.18		94	42.17	4025.50	2913.50	C	153	42.12	6477.66	461.34		
34	42.19	1484.01	5454.99	C	95	42.50	4068.00	2871.00		154	42.50	6520.16	418.84		
35	42.18	1526.19	5412.81		96	42.20	4110.20	2828.80	C	155	42.21	6562.37	376.63		
36	42.55	1568.74	5370.26	C	97	42.00	4152.20	2786.80		156	42.00	6604.37	334.63		
37	42.21	1610.95	5328.05		98	42.70	4194.90	2744.10	C	157	42.70	6647.07	291.93		
38	42.20	1653.15	5285.85	C	99	42.53	4237.43	2701.57		158	42.72	6689.79	249.21		
39	42.56	1695.71	5243.29		100	43.58	4281.01	2657.99	C	159	42.50	6732.29	206.71		
40	42.23	1737.94	5201.06	C	101	41.52	4322.53	2616.47		160	42.20	6774.49	164.51		
41	42.00	1779.94	5159.06		102	42.00	4364.53	2574.47	C	161	42.35	6816.84	122.16		
42	42.50	1822.44	5116.56	C	103	42.60	4407.13	2531.87		X-O	0.88	6817.72	121.28	7" BTCx8-5/8" Flush Max	
43	42.17	1864.61	5074.39		104	42.20	4449.33	2489.67	C	162	40.55	6858.27	80.73	8-5/8"32# K-55 Flush Max	
44	42.50	1907.11	5031.89	C	105	42.48	4491.81	2447.19		163	40.65	6898.92	40.08	8-5/8"32# K-55 Flush Max	
45	42.20	1949.31	4989.69		106	42.50	4534.31	2404.69	C	X-O	4.05	6902.97	36.03	8-5/8"32# K-55 FMxBTC	
46	42.00	1991.31	4947.69	C	107	42.18	4576.49	2362.51		164	40.50	6943.47	-4.47	8-5/8"32# K-55 BTC	
47	42.65	2033.96	4905.04		108	42.20	4618.69	2320.31	C						
48	42.12	2076.08	4862.92	C	109	42.12	4660.81	2278.19							
49	42.65	2118.73	4820.27		110	42.05	4702.86	2236.14	C						
50	42.22	2160.95	4778.05	C	111	42.38	4745.24	2193.76							
51	42.65	2203.60	4735.40		112	42.50	4787.74	2151.26	C						
52	42.21	2245.81	4693.19	C	113	42.47	4830.21	2108.79							
53	41.95	2287.76	4651.24		114	42.00	4872.21	2066.79	C						
54	42.70	2330.46	4608.54	C	115	42.52	4914.73	2024.27							
55	42.18	2372.64	4566.36		116	42.48	4957.21	1981.79	C						
56	42.64	2415.28	4523.72	C	117	42.20	4999.41	1939.59							
57	42.47	2457.75	4481.25		118	40.18	5039.59	1899.41	C						
58	42.50	2500.25	4438.75	C	119	41.81	5081.40	1857.60							
59	42.65	2542.90	4396.10		120	42.16	5123.56	1815.44	C						
	2542.90					2580.66					1819.91				

8-5/8

Casing: 7", 26#, N-80, BTC. & 8-5/8" 32# K55 Flush Max

Total Feet Run:	6943.00	footage on Loc:	7436.14
Total Jts Run:	164	Total Jts on Loc:	175
Shoe Depth:	6939.00	feet out	497.14
Length Above RKB:	3.45	Depth KB =	24.25
		Cut-off Length:	

Hole Size: 9-7/8" in Hole Depth: 7,405 ft
RKB: 16 ft Pipe Vendor JD Rush
Shoe Float Shoe Float Type: Float Collar
Centralizer/Scratcher Type & Placement: 1-Rigid Evey Jt To 6221' 1-Bow Spring Evey Other Jt To 1096'
Other Casing Hardware (DV tools, ECP's):

NATURAL RESOURCES AGENCY
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

No. T 111- 0155

REPORT ON OPERATIONS

CRITICAL WELL

Cypress, California
April 28, 2011

Brad Pierce, Agent
BREITBURN ENERGY CO. L.P.
515 S. Flower Street, Suite 4800
Los Angeles, CA 90071

Your operations at well **"West pico" 59,** A.P.I. No. **037-27133**, Section **30**, T. **1S**, R. **14W**, S.B. B & M., **Beverly Hills** Field, **Los Angeles** County, were witnessed on **11/14/2010**. **Kathleen Andrews,** representative of the supervisor, was present from **0430** to **0800.** There was also present **Mike Feaster, Company Super** .

The operations were performed for the purpose of testing the blowout prevention equipment and installation.

DECISION: APPROVAL

DEFICIENCIES: None.

DEFICIENCIES NOTES AND CORRECTED:
1. No notice of intent to drill form at drill site.
2. Accumulator working pressure was adjusted from 2700 psi to 3000psi.
3. Fifth nitrogen cylinder brought to accumulator to increase gallons of emergency backup system working fluid.

UNCORRECTABLE DEFICIENCIES: None

CONTRACTOR: **Kenai**

Elena M. Miller
State Oil and Gas Supervisor

By:
For: M, Ali Khan, *Acting District Deputy*

JHdj

cc: Update

OG109 07-08-09

API No. 037-27133 DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES T 111-0155 EM

BLOWOUT PREVENTION EQUIPMENT MEMO

Operator Breitburn Energy Co. L.P. Well "West Pico" 59 Sec. 30 T. 1S R. 14W
Field Beverly Hills County Los Angeles Spud Date 11/10/2010

VISITS:	Date	Engineer	Time	Operator's Rep.	Title
1st	11/14/2010	Kathleen Andrews	(0430 to 0800)	Mike Feaster	Company Super
2nd			(to)		

Contractor Kenai Rig # 101 Contractor's Rep. & Title Greg Gray Rig Supervisor
Casing record of well: 20" cem 52'; 10 3/4" cem 998'. TD 1002' (drilling)

OPERATION: Testing (inspecting) the blowout prevention equipment and installation. Critical well? Y ☒ N ☐
DECISION: The blowout prevention equipment and its installation on the 10 3/4 " casing are approved.

Proposed Well Opns: Drill . MACP: psi
Hole size: 14 3/4" fr. 52 ' to 1002 ', " to ' & " to '

REQUIRED BOPE CLASS: IIIB3M

CASING RECORD OF BOPE ANCHOR STRING					Cement Details	Top of Cement	
Size	Weight(s)	Grade(s)	Shoe at	CP at		Casing	Annulus
10 3/4	40.5 #	J-55	998		lead 400 cf (yield 2.09)		
					tail 350 cf (yield 1.41)		
					4 cf returns to surface		

BOP STACK

API Symb.	Ram Size (in.)	Manufacturer	Model or Type	Vert. Bore Size (in.)	Press. Rtg.	Date Last Overhaul
A	CSO	Shaffer		13 5/8	5M	
Rd	4"	Shaffer	SL	13 5/8	5M	
Rd	CSO	Shaffer	SL	13 5/8	5M	

TEST DATA

Gal. to Close	Recov. Time (Min.)	Calc. GPM Output	psi Drop to Close	Secs. to Close	Test Date	Test Press.
23.58					11/14	1000
5.3					11/14	1000
5.3						

Tested blind rams from 2215 to 2230 on 11/13/10 @ 2500 psi.

TOTAL: 34.18 g

ACTUATING SYSTEM

Accumulator Unit(s) Working Pressure 3100 psi
Total Rated Pump Output gpm Fluid Level
Distance from Well Bore >50 ft. ok

	Accum. Manufacturer	Capacity	Precharge
1	Valvcon (Koomey type)	110 gal.	1000 psi
2		gal.	psi

	CONTROL STATIONS	Elec.	Hyd.	Pneu.
x	Manifold at accumulator unit	x	x	
x	Remote at Driller's station		x	
	Other:			

	EMERG. BACKUP SYSTEM			Press.	Wkg.Fluid
4	N_2 Cylinders	1	L= 55 "	1800	4.40 gal.
	Other:	2	L= 55 "	2450	8.70gal.
		3	L= 55 "	2450	8.70 gal.
		4	L= 55 "	2400	8.39gal.
		5	L= 55 "	1800	4.40gal.
		6	L= "		gal.
			TOTAL: 34.59		gal.

AUXILIARY EQUIPMENT

		No.	Size (in.)	Rated Press	Connections: Weld	Flange	Thread	Test Press.
x	Fill-up Line							
x	Kill Line		2	3M		x		1000
x	Control Valve(s)	1		3M		x	x	---
x	Check Valve(s)	1		3M			x	1000
x	Aux. Pump Cnnct.			3M		x		1000
x	Choke Line		3	3M			x	1000
x	Control Valve(s)	11		3M		x	x	1000
x	Pressure Gauge						x	
x	Adjstble Choke(s)	2	3	3M		x		--
x	Bleed Line		3		x	x		
x	Upper Kelly Cock							2000
x	Lower Kelly Cock		2.87	3M				1000
x	Standpipe Valve							1000
x	Stndpipe Pres. Gau.							
x	Pipe Safety Valve		2.87	3M				1000
x	Internal Preventer		2.87	3M				1000

HOLE FLUID MONITORING EQUIPMENT

		Alarm Type: Audible	Visual	Class
x	Calibrated Mud Pit	x	x	A
x	Pit Level Indicator	x	x	B
x	Pump Stroke Counter	x	x	
x	Pit Level Recorder	x	x	
x	Flow Sensor	x	x	C
x	Mud Totalizer	x	x	
	Calibrated Trip Tank			
	Other:			

Hole Fluid Type	Weight	Storage Pits (Type & Size)
water based mud	9.1	400 bbl

REMARKS AND DEFICIENCIES: No notice of intent at drill site during DOG witness; accumulator working pressure was 2700 psi, adjusted up to 3100 psi during DOG witness; 5th N2 cylinder brought to accumulator during DOG witness. Broke key to upper kelly during DOG witness, so upper kelley was tested seperately using hydraulic line at 2000 psi.

OGD9 (9/06)

CONTRACTOR:

Kenai

UNCORRECTABLE DEFICIENCIES:

ø

DEFICIENCIES NOTED AND TO BE CORRECTED:

ø

DEFICIENCIES NOTED AND CORRECTED:

No notice of intent to drill form at drillsite.

Accumulator working pressure was adjusted from 2700psi to 3000psi.

Fifth nitrogen cylinder brought to accumulator to increase gallons of emergency backup system working fluid.

NATURAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

No. P 110-0442

054 (Field Code)

PERMIT TO CONDUCT WELL OPERATIONS

03 (Area Code)

CRITICAL WELL

00 (New Pool Code)

-- (Old Pool Code)

Brad Pierce, Agent
BREITBURN ENERGY CO. L.P.
515 South Flower St., Suite 4800
Los Angeles, CA 90071

Cypress, California
July 08, 2010

Your proposal to **drill** well **"West Pico" 59**, A.P.I. No. **037-27133**, Section **30**, T. **1S**, R. **14W**, **S.B.** B. & M., **Beverly Hills** Field, **East** area, **Repetto and Hauser** pools, **Los Angeles** County, dated **6/14/2010**, received **7/7/2010** has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED:

1. Blowout prevention equipment with hydraulic controls, equivalent to this Division's Class **IIIB3M** requirements, or better, shall be installed and maintained during **drilling** operations.
2. Drilling fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
3. Sufficient material to control lost circulation of drilling fluid shall be available for immediate use at the well site.
4. A directional survey shall be made and filed with this Division within 15 days of completion of drilling.
5. **A Supplementary Notice shall be filed with this Division prior to completion of the well.**
6. This Division shall be consulted and a Supplementary Notice may be required before making any changes in the proposed program.
7. **THIS DIVISION SHALL BE NOTIFIED TO:**
   a. Witness a test of the installed blowout equipment prior to drilling out cement in the shoe of the **10 3/4"** casing.
   b. Witness a test of the installed blowout equipment prior to drilling out cement in the shoe of the **7"** casing.

NOTE:

1. A crew drill may be required at the time of the blowout prevention equipment test.
2. The base of the freshwater sands is at **500'+/-**.

JCH:jch

cc: Update
EDP
Los Angeles Fire Department

BLANKET BOND

Engineer: John Huff

Phone: 714/816-6847

Elena M. Miller
State Oil and Gas Supervisor

By _____
For Kenneth M. Carlson, *Acting Deputy Supervisor*

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended. Issuance of this permit does not affect the Operator's responsibility to comply with other applicable state, federal and local laws, regulations and ordinances.

OG 111

P# 110-0442 OG/SCH

NATURAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

FOR DIVISION USE ONLY			
	Forms		
Bond	OGD114	OGD121	
BB	7-10-10 K.F	7-7-10 KF	

NOTICE OF INTENTION TO DRILL NEW WELL

Detailed instructions can be found at: www.conservation.ca.gov/dog/

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to drill well "West Pico #59, well type Oil, API No. 037-27133 (Assigned by Division)

Sec. 30, T.1S, R. 14W, SB B.&M., Beverly Hills Field, Los Angeles County.

Legal description of mineral-right lease, consisting of 1.1 acres (attach map or plat to scale), is as follows:
Tract 6380 - Lots 884, 885, 886, and 887; as per attached plat.

Do mineral and surface leases coincide? Yes☒ No☐. If answer is no, attach legal description of both surface and mineral leases, and map or plat to scale.

Location of well 19.45 feet North (Direction) along section ☐ / property ☒ (Check one) line and 108.97 feet East (Direction)

at right angles to said line from the centerline of Oakhurst corner of section ☐ / property ☒ (Check one) Sec 30,T1S/R14W SBBM and

Lat./Long. in decimal degrees, to six decimal places, NAD 83 format: Latitude: 34.055468 Longitude: -118.390414

If well is to be directionally drilled, show proposed coordinates (from surface location) and true vertical depth at total depth:
44.54 feet North (Direction) and 3,541.95 feet East (Direction). Estimated true vertical depth 6,527'. Elevation of ground above sea level 171 feet. All depth measurements taken from top of RKB (Derrick Floor, Rotary Table, or Kelly Bushing) that is 16 feet above ground.

Is this a critical well as defined in the California Code of Regulations, Title 14, Section 1720(a) (see next page)? Yes☒ No☐

Is a California Environmental Quality Act (CEQA) document required by a local agency? Yes☐ No☒ If yes, see next page.

PROPOSED CASING PROGRAM

SIZE OF CASING (Inches API)	WEIGHT	GRADE AND TYPE	TOP	BOTTOM	CEMENTING DEPTHS	FORMATION PRESSURE (Estimated Maximum)	CALCULATED FILL BEHIND CASING (Linear Feet)
10-3/4"	40.5#	J-55	0'	1,000'	1,000'	500 psi	1,000'
7"	26#	N-80	0'	6,700'	6,700'	1,100 psi	3,200'
5"	18#	N-80	6,400'	8,399'	8,399	1,100 psi	1,999'

EOC 3500 ✓

(Attach a complete drilling program including wellbore schematics in addition to the above casing program.)

UHZ: 6754' MD (4964' TVD) per Harold Im 7/7/10

Estimated depth of base of fresh water: 500' Anticipated geological markers: see attached program - Formation Tops (Name, depth)

Intended zone(s) of completion: Repetto = ~ 1,100 psi / Hauser = ~ 1,100 psi (Name, depth and expected pressure) Estimated total depth: 8,399'

The Division must be notified immediately of changes to the proposed operations. Failure to provide a true and accurate representation of the well and proposed operations may cause rescission of the permit.

Name of Operator			
BreitBurn Energy Company, LP			
Address: 515 South Flower Street, Suite 4800		City/State: Los Angeles, CA	Zip Code: 90071
Name of Person Filing Notice: Brad Pierce	Telephone Number: (213)225-5900 ext. 258	Signature: Brad R. Pierce	Date: 6/14/2010
Individual to contact for technical questions: Jeff Winkler	Telephone Number: (213) 225-5900 ext. 222	E-Mail Address: jwinkler@breitburn.com	

This notice and an indemnity or cash bond shall be filed, and approval given, before drilling begins. If operations have not commenced within one year of the Division's receipt of the notice, this notice will be considered cancelled.

10 mapping on 7/7/2010 - K.F. 19

OG105 (08/09)

INFORMATION FOR COMPLIANCE WITH THE CALIFORNIA ENVIRONMENTAL QUALITY ACT OF 1970 (CEQA)

If an environmental document has been prepared by the lead agency, submit a copy of the ***Notice of Determination*** or ***Notice of Exemption*** with this notice.

See attached Notice of Determination

CRITICAL WELL DEFINITION

As defined in the California Code of Regulations, Title 14, Section 1720 (a), "Critical well" means a well within:

(1) 300 feet of the following:
  (A) Any building intended for human occupancy that is not necessary to the operation of the well; or
  (B) Any airport runway.
(2) 100 feet of the following:
  (A) Any dedicated public street, highway or the nearest rail of an operating railway that is in general use;
  (B) Any navigable body of water or watercourse perennially covered by water;
  (C) Any public recreational facility such as a golf course, amusement park, picnic ground, campground or any other area of periodic high-density population; or
  (D) Any officially recognized wildlife preserve.

This form may be printed from the DOGGR website at www.conservation.ca.gov/dog/

4332	5 SHEET 1	P.A. 701-224 & 228	TRA 67	REVISED 6703128O4-97 20060307070110O4-7,25	7056050240001001-97				SEARCH NO		OFFICE OF THE ASSESSOR COUNTY OF LOS ANGELES COPYRIGHT © 2002

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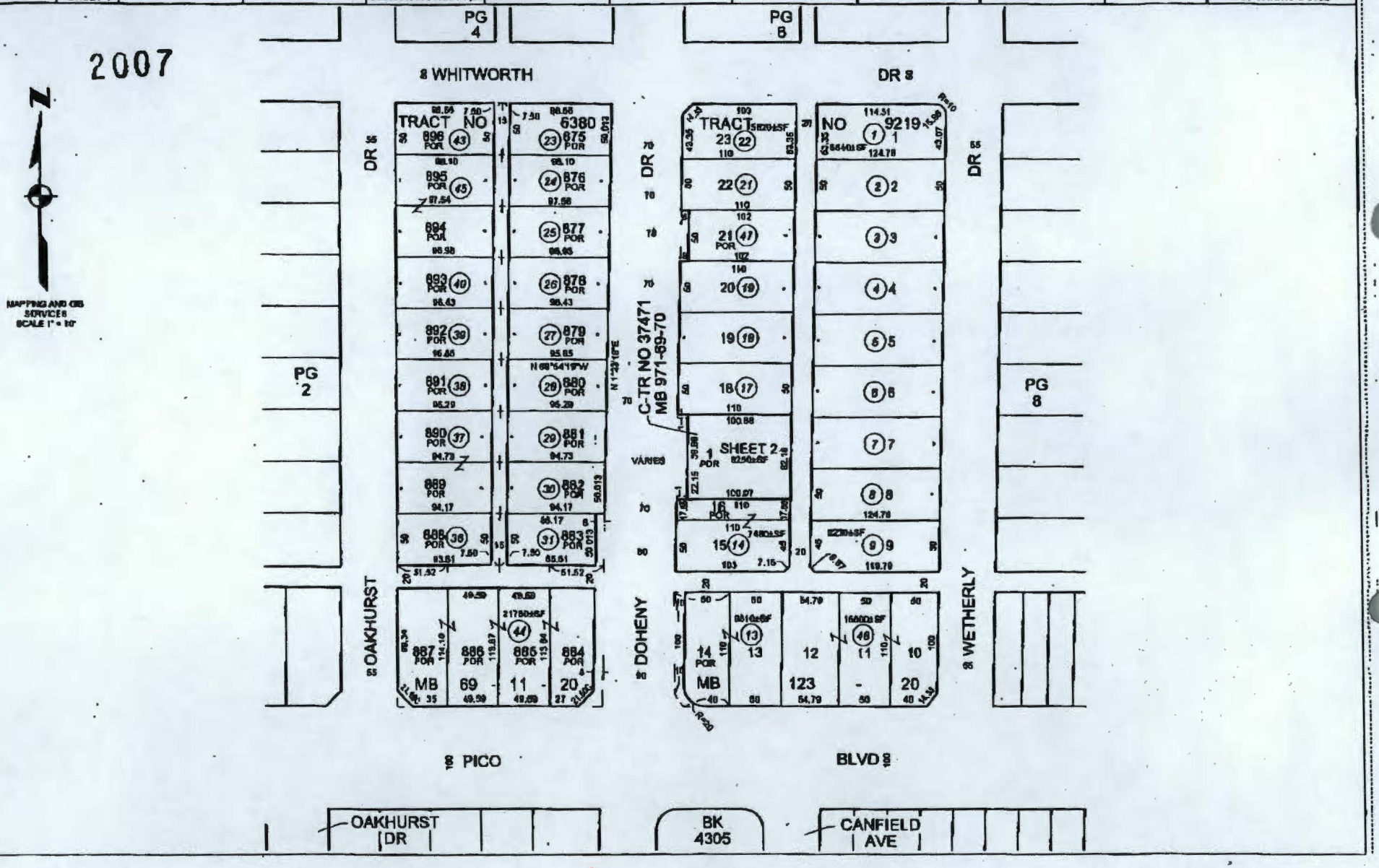

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BREITBURN

BreitBurn Energy Company, LP

West Pico #59 (Grass Roots Well)
Sec. 30–T1S/R14W SBB&M
Los Angeles County, CA
Drilling Program

June 9, 2010

Rig:	West Pico Company Rig
Proposed TD:	8,399' MD (6527' TVD)
RKB:	187'
BFW:	~500' (per CDOGGR)
Formation of Interest:	Repetto / Hauser

Surface Location: BreitBurn Slot #808
1842797.81956 N and 6443410.35336 E, NAD 83 CA State Planes, Zone V

Directional Plan: Sperry Plan #7 dated 03/10/10

Formation Tops:

Formation Top per Sperry Plan #5	Est. MD
R4	6,768'
DM	7,313'
DM2	7,381'
H001	7,477'
H100	7,630'
H200	7,777'
H202	7,934'
H203	7,979'
H300	8,069'
TD	8,398'

Existing Casing: New Well – 20" Conductor set @ 60' GL

Proposed Casing:
Surface = 10-3/4", 40.5#, J-55, STC @ 1,000'
Intermediate = 7", 26#, N80, BTC @ 6,700' MD
Liner = 5", 18#, L-80, Hydril 511 @ f/ 6,400' to 8,398' (~2,000')

Wellhead: 10-3/4" SOW X 13-5/8" (3M) casing head (future completion options for HRP)

BOP & Well Control: 13-5/8" DOG Class III (3M) SRRA
Refer to CDOGGR permit for additional requirements.

Potential Hazards: Lost circulation in depleted zones. Attempt to keep hole full at all times!

Pressures & Temperature:

Est. BHP:	900 psi
Est. Frac Gradient:	N/A
SBHT:	170°F at 8,399' MD / 6,527' TVD

BREITBURN

BreitBurn Energy Company, LP
West Pico #59 (Grass Roots Well)
Sec. 30–T1S/R14W SBB&M
Los Angeles County, CA
Drilling Program

Pre-Spud

- **Secure all necessary permits.**
- **All field personnel to have complete understanding of quiet work environment conditions and all working restrictions of the Pico Drill Site.**
- Skid rig over as necessary to retrieve all 5" DP- **all pipe to be rabbited prior to use**.
- LD excess 5" DP (keep enough 5" along with BHA to reach 9-7/8" hole depth of 7,313').
- Skid over 808 slot (WP 59)
- Prefab riser for surface hole
- Install the accessory rig equipment
    1. flowline (welded)
    2. connect all PVT devises
    3. fill mud pits with water (verify flow paths)
    4. check cameras working on rig floor and in mud room
    5. verify gas buster is clear of all debris (ie cement)
    6. RU super sucker, service, verify its ability to perform (check in-take lines)
    7. Make sure all bumper hoses running to the rig pumps are not rubbing on subbase or equivalent metals
    8. Verify storage tanks are ready for drilling sequence
- Notify Soli-Bond of start up of drilling operations
- Rig crews to have understanding in well control and BOPE operations

Drilling Operations

1. Directionally drill 14-3/4" surface hole to ~1000' MD (950' TVD).

    a. Install prefab riser with fill-up line and valve in cellar to drain conductor after surface cement job.
    b. MU 9-7/8" bit IADC 1-1-7 on Sperry Steerable BHA **(PU 3 7" DC's and HWDP – all BHA to be rabbited prior to use).** *Scientific Gyro will be needed to steer well.*
    c. Drill surface hole to fit casing (depth of fixed 14-3/4" reamer cleanout +4' up on floor) following Sperry's Plan #7, no wiper trips required on surface hole unless hole conditions dictate.
    d. MU 14-3/4" extended (5') bullnose fixed reamer on BHA to open 9-7/8" hole to 14-3/4" f/ surface to ~851'.
    e. Condition hole for 10-3/4" casing.
    f. Run & cement (**see Detailed Cement Program by Bud Frederick**) 10-3/4", 40.5#, J55, STC casing to surface (have plenty of sugar on site for potential cement returns). Perform planned top job.
    g. WOC
    h. Install 10-3/4" x 13-5/8" 3M SOW head & test weld to ~500 psi.

    Drilling Fluid properties:

Interval	Mud Weight	PV	YP	Fluid Loss	% LGS
14-3/4" Hole	8.6	15-25	15-25	<nc	<6%

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West Pico #59 (Grass Roots Well)
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Los Angeles County, CA
Drilling Program

2. Install 13-5/8" Class III (3M) BOPE.

   a. Install a 13-5/8" DOG Class III (3M) SRRA BOPE.
   b. Install test plug and test rams, choke & kill lines to 1000 psi; annular preventer to 1000 psi. Notify the Cypress CDOGGR office at (714) 816-6847 for witnessing test. Install wearbushing.

3. Directionally drill 9-7/8" hole to 6,700' (4,912' TVD). Mudlogger to be installed above Repetto.

   a. Re-run 9-7/8" IADC 1-1-7 bit on Sperry Steerable BHA & RIH. *Scientific Gyro will be needed to ~2000'+ due to wellbore interference.*
   b. Directionally drill 9-7/8" hole per the Sperry Well Plan #7.

      - Wipe hole as drilling conditions warrant or every 24 hrs, whichever comes first
      - Keep pipe moving at all times!
      - **Always use pipe spinners in/out of hole!**
      - **There will be required trips to reposition DC's, HWDP & DP in order to drill the curve**

   c. Take MWD surveys every 30' while drilling curve and in slide mode. Survey every 60' while drilling in rotary mode.
   d. Drill to intermediate casing point TD (to fit 7" casing).

      Drilling Fluid properties:

Interval	Mud Weight	PV	YP	Fluid Loss	% LGS
9-7/8" Hole	8.6-9.3	15-25	15-25	<8	<6%

      - Ensure pH (6.5-7.0) is kept in acetic state in order to stabilize wellbore
      - Discuss the use of lubricants with drilling engineer prior to treatment
      - Increases in mud weight must be cleared through the drilling engineer prior to implementation, mud weight to be kept as low as practical
      - Pre-treat drilling fluid with lost circulation material prior to drilling into Repetto and Hauser zones

   e. Condition hole for 7" casing with **Reaming BHA**. POOH. **Pull wearbushing prior to running 7" casing.**

      Reaming BHA = 9-3/4" extended (5') bullnose hole opener on DP with DC's, HWDP & jars spaced out

4. Run 7", 26#, N80, Buttress casing as follows:
   Casing Design:

Sec	Length	IntervalSize	Wt.	Grade	Thrd	
1	6,700'	0' – 6,700'	7"	26.0	N-80	Butt

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Note: Watch running speed to avoid excessive surge pressure (use circulating fill-up tool).

a. Float guide shoe
b. 2 joints of casing
c. Float collar
d. Casing to reach 3-5' above rotary table (add flag joints if needed)
e. Install centralizers as follows: Semi-Ridged Centralizers every joint to 6,700'; regular centralizers every other joint to 1400'
f. Baker-lock the shoe track and **joints 4,5 &6 below rotary table**
g. Make-up Torque required for casing:
   Buttress
   Special Torque for jts 4, 5 & 6 & Last 3 jts xxx lbs

Note: If lost circulation occurred while drilling the open hole, a stage collar may be implemented for a 2-stage cement job.

5. Prior to cementing, circulate a minimum 150% of the hole volume. Reduce YP to <10. Reciprocate casing while circulating and cementing.

6. Cement 7" casing w/ ~ 2000 ft3 cement w/ casing 3-5' off bottom. **Detailed Cementing Program by Bud Frederick**:

   a. Clear pump and lines with water.
   b. Drop top plug & displace with 3% KCl Xanvis Drill-in Fluid to float collar.
   c. Bump plug with 500 psi and check floats.
   d. Monitor annulus for gas migration.

7. Remove BOPE. Cut and dress the 7" casing stub. Install a 13-5/8" (3M) X 11" (3M) tubing head with secondary seal. Test seal to 1500 psi with the 7" x 10-3/4" annulus valve open.

8. Secure wellbore and skid rig to where 5" DP may be stored or trucked off.

9. Run all 5" DP in storage wellbore. Skid rig back to WP #59.

10. Nipple-up 13-5/8" Class III (3M) BOPE **(DSA required from 11" 3M to 13-5/8" 3M)**

    a. Install a 13-5/8" DOG Class III (3M) SRRA BOPE. Test Blind rams to 1000 psi.
    b. Test rams, choke & kill lines to 1000 psi; annular preventer to 1000 psi. Notify the Cypress CDOGGR office at (714) 816-6847 for witnessing test. Install wearbushing.
    c. PU sufficient 3-1/2" DP along with BHA to reach 6" hole TD.

11. Directionally drill 6-1/8" hole to 8,399' (6,527' TVD).

    a. MU 6-1/8" PDC bit on DP & Sperry Steerable BHA **(all 3-1/2" DP & 30, 3-1/2" HWDP; 6, 4-3/4" DC's to be rabbited prior to use)**. Final drill string design to be determined based on torque/drag modeling.

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b. Directionally drill 6-1/8" hole per the Sperry Well Plan #7 to TD at 8,399' MD / 6,527' (TVD).

- Wipe hole as drilling conditions warrant or every 24 hrs, whichever comes first
- Keep pipe moving at all times!
- **Always use pipe spinners in/ out of hole!**

c. Take MWD surveys every 30' while in slide mode. Survey every 60' while drilling in rotary mode.
d. Drill to anticipated liner TD casing point (~8399' MD).

Drilling Fluid properties: **3% KCl X-anvis Fluid**

Interval	Mud Weight	Visc	Chlorides
6-1/8" Hole	8.6	36-42 sec	15000 ppm

e. Condition hole for e-logs and 5" liner by running reaming BHA. POOH.

Reaming BHA = 6-1/8" extended (5') bullnose hole opener on 3-1/2" DP with BHA above.

12. Wire-line e-logs or DP Conveyed Logging – Option. Run e-logs as directed.

Logs	Depths
Induction-Density-Neutron-Microlog-GR	f/ 8,399' to 6,700'

RD loggers.

13. RIH w/ reaming 6-1/8" BHA. Condition hole for 5" liner with reaming BHA. POOH (re-rabbit DP).

14. PU & run 5", 18#, L-80, Hydril 511 flush liner f/ 8,399' to ~ TOL 6,400' with circulating shoe on bottom and hydraulic set liner hanger on top.

15. Run 5", 18#, L-80, Hyd-511 as follows:
Casing Design:

Sec	Length	Interval	Size	Wt.	Grade	Thrd
1	2,000'	6,400' – 8,399'	5"	18.0	L-80	Hyd-511

Note: Be sure Hydril Rep present with lifting nubs to witness procedure

a. PU & run inner 2-3/8" FJ tubing string inside 5" liner – spaced out to sting into circulating shoe.
b. RIH on 3-1/2" DP to TD.

16. RU cementers and cement 5" liner in place w/ approx. ~175 ft3 f/ 8,399' to ~ TOL at 6,400' w/ casing 3-5' off bottom per **Detailed Cementing Program by Bud Frederick**:

e. Drop top plug & displace with lease water.
f. Bump plug with 500 psi and check floats.
c. Set hydraulic liner hanger.
d. Release off of liner hanger and circulate excess cement off of liner top.

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West Pico #59 (Grass Roots Well)
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17. POOH LD 3-1/2" DP. ND BOPE. Install wellhead tubing flange. Secure Well.
18. Prep for Completion Operations – detailed program to follow.

DRILTEK
PROFESSIONAL DRILLING MANAGEMENT

BreitBurn Energy Company, LP
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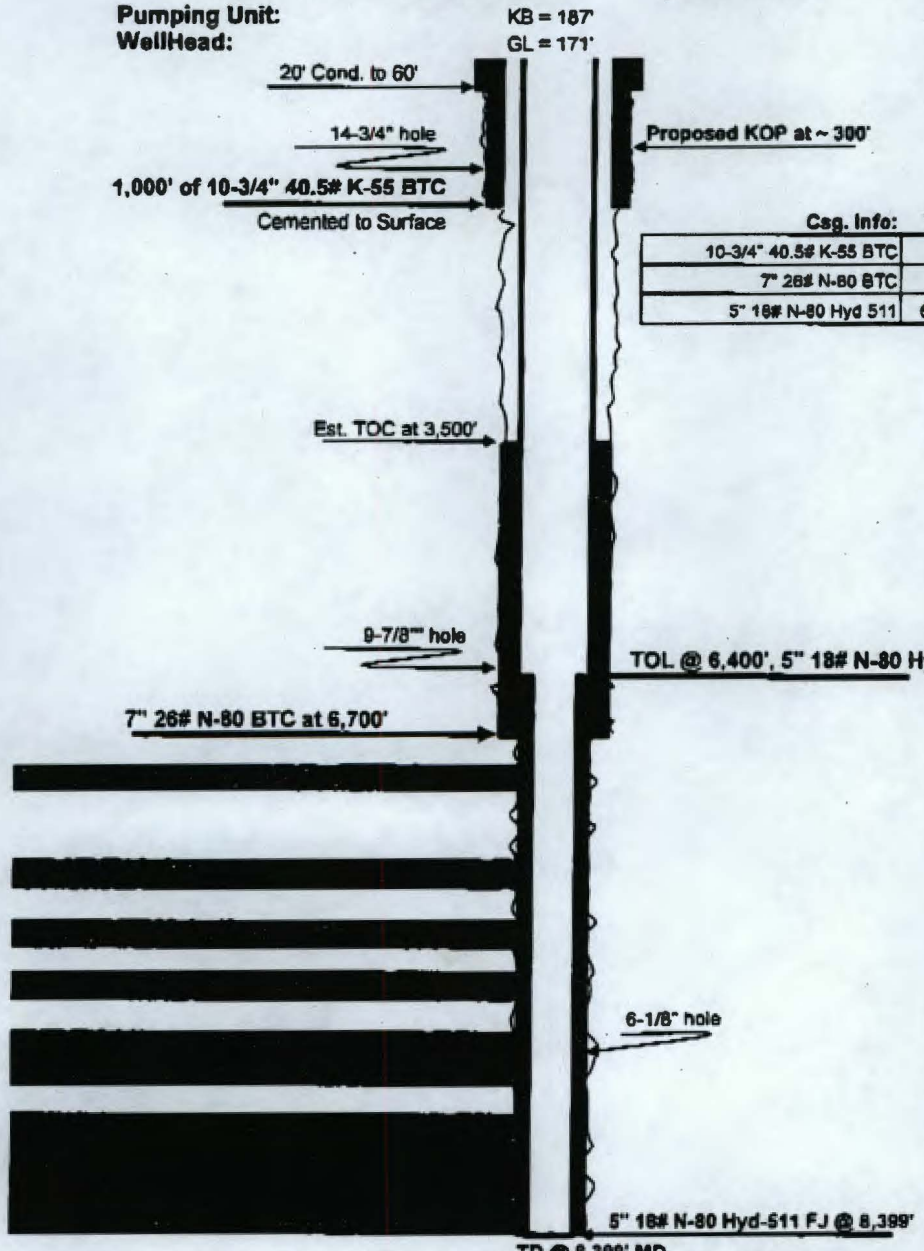
Los Angeles County, CA
Drilling Program

Proposed WellBore

West Pico #59
Breitburn Energy Company
Drilling / Completion Diagram

Well Name: WP-59 **API#:** TBD - New Well
Location: Sec.30-1S-14W **Field:** East Beverly Hills
State: Ca. **County:** Los Angeles
Well drilled: New Well **Type:** Producer **TD:** 8,399'

Pumping Unit:
WellHead:



Csg. Info:	Top	Bottom	Drift ID
10-3/4" 40.5# K-55 BTC	0	1000	9.894"
7" 26# N-80 BTC	0	6,700'	6.241"
5" 18# N-80 Hyd 511	6,400	8,399'	4.141"

TD @ 8,399' MD
DIRECTIONAL HOLE 8,399' MD / 6,527' TVD
44' N & 3,542 E

DRILTEK

BreitBurn Energy

West Pico
West Pico
_WP-59 (Slot 808)

Wellbore #1

Plan: Plan #7 (10-Mar-10)

Job No. Plan #7 (10-Mar-10)

Sperry Drilling Services

Combo Report

10 March, 2010

Well Coordinates: 202,370.46 N, 1,882,017.05 E (34° 03' 19.65" N, 118° 23' 22.21" W)
Ground Level: 0.00 ft

Local Coordinate Origin:	Centered on Well _WP-59 (Slot 808)
Viewing Datum:	Well @ 187.00ft (Original Well Elev)
TVDs to System:	N
North Reference:	Grid
Unit System:	API - US Survey Feet

Version: 2003.14 Build: 82

HALLIBURTON

[redacted]

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07/06/2010 23:24 FAX 013/021

Plan Report for _WP-59 (Slot 808) - Plan #7 (10-Mar-10)

Measured Depth (ft)	Inclination (°)	Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates Northing (ft)	Local Coordinates Easting (ft)	Map Coordinates Northing (ft)	Map Coordinates Easting (ft)	Dogleg Rate (°/100ft)	Vertical Section (ft)	Comments
0.00	0.00	0.00	187.00	0.00	0.00 N	0.00 E	202,370.46	1,882,017.05	0.00	0.00	
100.00	0.00	0.00	87.00	100.00	0.00 N	0.00 E	202,370.46	1,882,017.05	0.00	0.00	
200.00	0.00	0.00	-13.00	200.00	0.00 N	0.00 E	202,370.46	1,882,017.05	0.00	0.00	
300.00	0.00	0.00	-113.00	300.00	0.00 N	0.00 E	202,370.46	1,882,017.05	0.00	0.00	Start Build 2.00
400.00	2.00	150.00	-212.98	399.98	1.51 S	0.87 E	202,368.95	1,882,017.92	2.00	0.85	
425.00	2.50	150.00	-237.96	424.96	2.36 S	1.36 E	202,368.10	1,882,018.41	2.00	1.33	Start 100.00 hold at 425.00 MD
500.00	2.50	150.00	-312.89	499.89	5.19 S	3.00 E	202,365.27	1,882,020.05	0.00	2.93	
525.00	2.50	150.00	-337.87	524.87	6.14 S	3.54 E	202,364.32	1,882,020.59	0.00	3.47	Start DLS 3.00 TFO -68.13
600.00	3.94	117.95	-412.75	599.75	8.76 S	6.64 E	202,361.70	1,882,023.69	3.00	6.53	
700.00	6.80	102.36	-512.32	699.32	11.61 S	15.29 E	202,358.85	1,882,032.34	3.00	15.14	
800.00	9.47	95.95	-611.33	798.33	13.69 S	29.08 E	202,356.77	1,882,046.13	3.00	28.91	
900.00	12.40	92.51	-709.51	896.51	15.02 S	47.99 E	202,355.44	1,882,065.04	3.00	47.80	
920.43	13.00	92.00	-729.44	916.44	15.19 S	52.48 E	202,355.27	1,882,069.53	3.00	52.29	Start 450.00 hold at 920.43 MD
1,000.00	13.00	92.00	-806.97	993.97	15.82 S	70.37 E	202,354.64	1,882,087.42	0.00	70.16	
1,100.00	13.00	92.00	-904.41	1,091.41	16.60 S	92.85 E	202,353.86	1,882,109.90	0.00	92.63	
1,200.00	13.00	92.00	-1,001.84	1,188.84	17.39 S	115.33 E	202,353.07	1,882,132.38	0.00	115.10	
1,300.00	13.00	92.00	-1,099.28	1,286.28	18.17 S	137.81 E	202,352.29	1,882,154.86	0.00	137.57	
1,370.43	13.00	92.00	-1,167.91	1,354.91	18.73 S	153.65 E	202,351.73	1,882,170.70	0.00	153.40	Start DLS 3.00 TFO 29.53
1,400.00	13.78	93.84	-1,196.67	1,383.67	19.08 S	160.48 E	202,351.38	1,882,177.53	3.00	160.23	
1,500.00	16.48	98.76	-1,293.20	1,480.20	22.04 S	186.40 E	202,348.42	1,882,203.45	3.00	186.11	
1,600.00	19.29	102.31	-1,388.38	1,575.38	27.72 S	216.57 E	202,342.74	1,882,233.62	3.00	216.21	
1,700.00	22.14	104.98	-1,481.89	1,668.89	36.11 S	250.92 E	202,334.35	1,882,267.97	3.00	250.44	
1,800.00	25.02	107.07	-1,573.53	1,760.53	47.19 S	289.34 E	202,323.27	1,882,306.38	3.00	288.72	
1,900.00	27.92	108.75	-1,663.04	1,850.04	60.93 S	331.73 E	202,309.53	1,882,348.78	3.00	330.94	
2,000.00	30.85	110.13	-1,750.16	1,937.16	77.28 S	377.99 E	202,293.18	1,882,395.04	3.00	376.98	
2,100.00	33.78	111.30	-1,834.67	2,021.67	96.21 S	427.97 E	202,274.25	1,882,445.02	3.00	426.73	
2,200.00	36.72	112.30	-1,916.32	2,103.32	117.66 S	481.54 E	202,252.80	1,882,498.59	3.00	480.03	
2,300.00	39.68	113.17	-1,994.90	2,181.90	141.57 S	538.57 E	202,228.89	1,882,555.62	3.00	536.74	
2,400.00	42.63	113.94	-2,070.19	2,257.19	167.87 S	598.86 E	202,202.59	1,882,615.93	3.00	596.72	
2,500.00	45.59	114.63	-2,141.98	2,328.98	196.51 S	662.32 E	202,173.95	1,882,679.37	3.00	659.79	
2,600.00	48.56	115.25	-2,210.07	2,397.07	227.39 S	728.70 E	202,143.07	1,882,745.75	3.00	725.79	
2,700.00	51.53	115.81	-2,274.29	2,461.29	260.43 S	797.86 E	202,110.03	1,882,814.91	3.00	794.52	
2,800.00	54.50	116.34	-2,334.44	2,521.44	295.54 S	869.60 E	202,074.92	1,882,886.65	3.00	865.81	
2,900.00	57.47	116.82	-2,390.38	2,577.38	332.63 S	943.71 E	202,037.83	1,882,960.76	3.00	939.48	
3,000.00	60.45	117.27	-2,441.93	2,628.93	371.59 S	1,020.01 E	201,998.87	1,883,037.06	3.00	1,015.28	
3,052.20	62.00	117.50	-2,467.06	2,654.06	392.63 S	1,060.63 E	201,977.83	1,883,077.68	3.00	1,055.61	Start DLS 3.00 TFO -67.22
3,100.00	62.58	116.01	-2,489.30	2,676.30	411.68 S	1,098.42 E	201,958.78	1,883,115.47	3.00	1,093.16	
3,200.00	63.79	112.94	-2,534.43	2,721.43	446.84 S	1,179.63 E	201,921.62	1,883,196.68	3.00	1,173.90	
3,300.00	65.08	109.94	-2,577.58	2,764.58	481.80 S	1,263.59 E	201,886.66	1,883,280.64	3.00	1,257.43	
3,400.00	66.43	107.00	-2,618.65	2,805.65	516.47 S	1,350.06 E	201,859.99	1,883,367.11	3.00	1,343.54	

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Plan Report for _WP-59 (Slot 808) - Plan #7 (10-Mar-10)

Measured Depth (ft)	Inclination (°)	Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates Northing (ft)	Local Coordinates Easting (ft)	Map Coordinates Northing (ft)	Map Coordinates Easting (ft)	Dogleg Rate (°/100ft)	Vertical Section (ft)	Comments
3,500.00	67.84	104.13	-2,857.51	2,844.51	535.16 S	1,436.82 E	201,835.28	1,883,455.87	3.00	1,431.97	
3,600.00	69.29	101.31	-2,894.05	2,881.05	555.66 S	1,529.60 E	201,814.80	1,883,546.65	3.00	1,522.50	
3,638.90	69.87	100.23	-2,707.63	2,894.63	562.47 S	1,565.42 E	201,807.99	1,883,582.47	3.00	1,556.23	Start 672.51 hold at 3638.90 MD
3,700.00	69.87	100.23	-2,728.65	2,915.65	572.65 S	1,621.88 E	201,797.81	1,883,638.93	0.00	1,614.55	
3,800.00	69.87	100.23	-2,763.06	2,950.06	589.32 S	1,714.28 E	201,781.14	1,883,731.33	0.00	1,706.73	
3,900.00	69.87	100.23	-2,797.46	2,984.46	605.99 S	1,806.68 E	201,764.47	1,883,823.73	0.00	1,798.91	
4,000.00	69.87	100.23	-2,831.89	3,018.89	622.68 S	1,899.08 E	201,747.80	1,883,916.13	0.00	1,891.10	
4,100.00	69.87	100.23	-2,866.30	3,053.30	639.33 S	1,991.48 E	201,731.13	1,884,008.53	0.00	1,983.28	
4,200.00	69.87	100.23	-2,900.71	3,087.71	656.00 S	2,083.88 E	201,714.46	1,884,100.93	0.00	2,075.47	
4,300.00	69.87	100.23	-2,935.12	3,122.12	672.67 S	2,176.28 E	201,697.79	1,884,193.33	0.00	2,167.65	
4,311.42	69.87	100.23	-2,939.05	3,126.05	674.57 S	2,186.83 E	201,695.89	1,884,203.88	0.00	2,178.18	Start DLS 3.00 TFO -161.15
4,400.00	67.36	98.30	-2,971.35	3,158.35	688.58 S	2,268.11 E	201,681.90	1,884,285.16	3.00	2,258.28	
4,500.00	64.53	96.20	-3,012.11	3,199.11	702.46 S	2,358.35 E	201,668.00	1,884,375.40	3.00	2,348.33	
4,600.00	61.71	97.08	-3,057.32	3,244.32	714.31 S	2,448.74 E	201,656.15	1,884,463.79	3.00	2,437.57	
4,700.00	58.90	95.85	-3,106.86	3,293.86	724.10 S	2,538.05 E	201,646.36	1,884,550.10	3.00	2,523.74	
4,800.00	58.10	94.57	-3,160.58	3,347.59	731.77 S	2,617.02 E	201,638.69	1,884,634.07	3.00	2,607.61	
4,900.00	53.31	93.21	-3,216.36	3,405.36	737.33 S	2,698.44 E	201,633.13	1,884,715.49	3.00	2,688.96	
5,000.00	50.54	91.74	-3,260.02	3,467.02	740.74 S	2,777.08 E	201,629.72	1,884,794.13	3.00	2,767.55	
5,100.00	47.80	90.15	-3,345.40	3,532.40	742.01 S	2,852.72 E	201,628.45	1,884,869.77	3.00	2,843.17	
5,200.00	45.07	88.41	-3,414.31	3,601.31	741.13 S	2,925.16 E	201,629.33	1,884,942.21	3.00	2,915.61	
5,300.00	42.36	86.51	-3,486.58	3,673.58	738.10 S	2,994.20 E	201,632.36	1,885,011.25	3.00	2,984.69	
5,400.00	39.72	84.40	-3,561.99	3,748.99	732.92 S	3,059.65 E	201,637.54	1,885,076.70	3.00	3,050.20	
5,500.00	37.10	82.04	-3,640.35	3,827.35	725.62 S	3,121.33 E	201,644.84	1,885,138.38	3.00	3,111.96	
5,600.00	34.53	79.37	-3,721.44	3,908.44	716.21 S	3,179.07 E	201,654.25	1,885,196.12	3.00	3,169.62	
5,700.00	32.03	76.35	-3,805.03	3,992.03	704.73 S	3,232.72 E	201,665.73	1,885,249.77	3.00	3,223.60	
5,800.00	29.62	72.98	-3,890.91	4,077.91	691.19 S	3,282.11 E	201,679.27	1,885,299.16	3.00	3,273.16	
5,900.00	27.31	68.86	-3,978.82	4,165.82	675.64 S	3,327.13 E	201,694.82	1,885,344.18	3.00	3,318.36	
6,000.00	25.13	64.19	-4,068.54	4,255.54	658.12 S	3,367.65 E	201,712.34	1,885,384.70	3.00	3,359.11	
6,100.00	23.12	58.73	-4,159.81	4,346.81	638.68 S	3,403.55 E	201,731.78	1,885,420.60	3.00	3,395.25	
6,200.00	21.33	52.35	-4,252.39	4,438.39	617.37 S	3,434.74 E	201,753.09	1,885,451.79	3.00	3,426.71	
6,300.00	19.83	44.96	-4,346.02	4,533.02	594.25 S	3,461.13 E	201,776.21	1,885,478.18	3.00	3,453.39	
6,400.00	18.67	36.55	-4,440.45	4,627.45	569.38 S	3,482.65 E	201,801.08	1,885,499.70	3.00	3,475.22	
6,500.00	17.93	27.26	-4,535.41	4,722.41	542.84 S	3,499.26 E	201,827.62	1,885,516.30	3.00	3,492.14	
6,600.00	17.66	17.49	-4,630.65	4,817.85	514.68 S	3,510.86 E	201,855.77	1,885,527.91	3.00	3,504.11	
6,700.00	17.87	7.66	-4,725.90	4,912.90	485.01 S	3,517.47 E	201,885.45	1,885,534.52	3.00	3,511.10	
6,753.73	18.19	2.57	-4,777.00	4,964.00	468.46 S	3,518.85 E	201,902.00	1,885,536.00	3.00	3,512.78	Start 1645.20 hold at 6753.73 MD - WP808 T1
6,800.00	18.19	2.57	-4,820.96	5,007.96	454.03 S	3,519.60 E	201,916.43	1,885,536.85	0.00	3,513.61	
6,900.00	18.19	2.57	-4,915.96	5,102.96	422.85 S	3,520.99 E	201,947.61	1,885,538.04	0.00	3,515.40	

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Plan Report for _WP-59 (Slot 808) - Plan #7 (10-Mar-10)

Measured Depth (ft)	Inclination (°)	Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates Northing (ft)	Local Coordinates Easting (ft)	Map Coordinates Northing (ft)	Map Coordinates Easting (ft)	Dogleg Rate (°/100ft)	Vertical Section (ft)	Comments
7,000.00	18.19	2.57	-5,010.98	5,197.98	391.67 S	3,522.39 E	201,978.79	1,885,538.44	0.00	3,517.19	
7,100.00	18.19	2.57	-5,105.97	5,292.97	360.49 S	3,523.79 E	202,009.97	1,885,540.84	0.00	3,518.98	
7,200.00	18.19	2.57	-5,200.97	5,387.97	329.31 S	3,525.19 E	202,041.15	1,885,542.24	0.00	3,520.77	
7,300.00	18.19	2.57	-5,295.96	5,482.96	298.12 S	3,526.59 E	202,072.34	1,885,543.64	0.00	3,522.56	
7,400.00	18.19	2.57	-5,390.96	5,577.96	266.94 S	3,527.98 E	202,103.52	1,885,545.03	0.00	3,524.35	
7,500.00	18.19	2.57	-5,485.96	5,672.96	235.76 S	3,529.38 E	202,134.70	1,885,546.43	0.00	3,526.14	
7,600.00	18.19	2.57	-5,580.99	5,767.99	204.58 S	3,530.78 E	202,165.88	1,885,547.83	0.00	3,527.93	
7,700.00	18.19	2.57	-5,675.99	5,862.99	173.40 S	3,532.18 E	202,197.06	1,885,549.23	0.00	3,529.72	
7,800.00	18.19	2.57	-5,771.00	5,958.00	142.22 S	3,533.58 E	202,228.24	1,885,550.63	0.00	3,531.51	
7,900.00	18.19	2.57	-5,866.00	6,053.00	111.03 S	3,534.97 E	202,259.43	1,885,552.02	0.00	3,533.30	
8,000.00	18.19	2.57	-5,961.00	6,148.00	79.85 S	3,536.37 E	202,290.61	1,885,553.42	0.00	3,535.09	
8,100.00	18.19	2.57	-6,056.01	6,243.01	48.67 S	3,537.77 E	202,321.79	1,885,554.82	0.00	3,536.88	
8,200.00	18.19	2.57	-6,151.01	6,338.01	17.49 S	3,539.17 E	202,352.97	1,885,556.22	0.00	3,538.67	
8,300.00	18.19	2.57	-6,246.01	6,433.01	13.69 N	3,540.57 E	202,384.15	1,885,557.62	0.00	3,540.46	
8,398.93	18.19	2.57	-6,340.00	6,527.00	44.54 N	3,541.95 E	202,415.00	1,885,559.00	0.00	3,542.23	TD at 8398.93 - WP808 T2

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
300.00	300.00	0.00	0.00	Start Build 2.00
425.00	424.98	-2.36	1.36	Start 100.00 hold at 425.00 MD
525.00	524.87	-6.14	3.54	Start DLS 3.00 TFO -68.13
920.43	916.44	-15.19	52.48	Start 450.00 hold at 920.43 MD
1,370.43	1,354.91	-18.73	153.65	Start DLS 3.00 TFO 29.53
3,052.20	2,654.06	-392.63	1,060.63	Start DLS 3.00 TFO -67.22
3,638.90	2,894.63	-562.47	1,565.42	Start 572.51 hold at 3638.90 MD
4,311.42	3,128.05	-674.57	2,166.83	Start DLS 3.00 TFO -161.15
6,753.73	4,984.00	-468.46	3,516.95	Start 1645.20 hold at 6753.73 MD
8,398.93	6,527.00	44.54	3,541.95	TD at 8398.93

Vertical Section Information

	Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/_S (ft)	Origin +E/-W (ft)	Start TVD (ft)
TD		No Target (Freehand)	89.26	Slot	0.00	0.00	0.00

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Plan Report for _WP-59 (Slot 808) - Plan #7 (10-Mar-10)

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
0.00	8,398.93	Plan #7 (10-Mar-10)	MWD

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
WP808 T1	0.00	360.00	4,964.00	-466.46	3,518.95	201,902.00	1,885,536.00	34.0542078	-118.3776797
- plan hits target - Circle (radius 50.00)									
WP808 T2	0.00	360.00	8,527.00	44.54	3,541.95	202,415.00	1,885,559.00	34.0556177	-118.3776102
- plan hits target - Circle (radius 50.00)									

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North Reference Sheet for West Pico - _WP-59 (Slot 808) - Wellbore #1

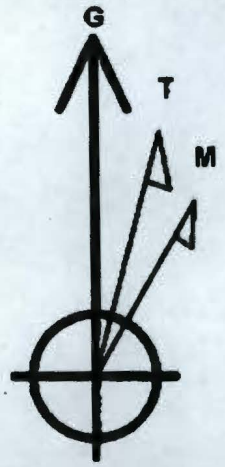
All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.
Vertical Depths are relative to Well @ 187.00ft (Original Well Elev). Northing and Easting are relative to _WP-59 (Slot 808)

Coordinate System is US State Plane 1927 (Exact solution), California V 405 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866
Projection method is Lambert Conformal Conic (2 parallel)
Central Meridian is -118.0000000°, Longitude Origin:0.0000000°, Latitude Origin:35.4666667°
False Easting: 2,000,000.00ft, False Northing: 0.00ft, Scale Reduction: 0.99999528

Grid Coordinates of Well: 202,370.46 ft N, 1,882,017.05 ft E
Geographical Coordinates of Well: 34° 03' 19.65" N, 118° 23' 22.21" W
Grid Convergence at Surface is: -0.22°

Based upon Minimum Curvature type calculations, at a Measured Depth of 8,398.93ft
the Bottom Hole Displacement is 3,542.23ft in the Direction of 89.26° (Grid).

Magnetic Convergence at surface is: -12.98° (10 March 2010, , IGRF2010)



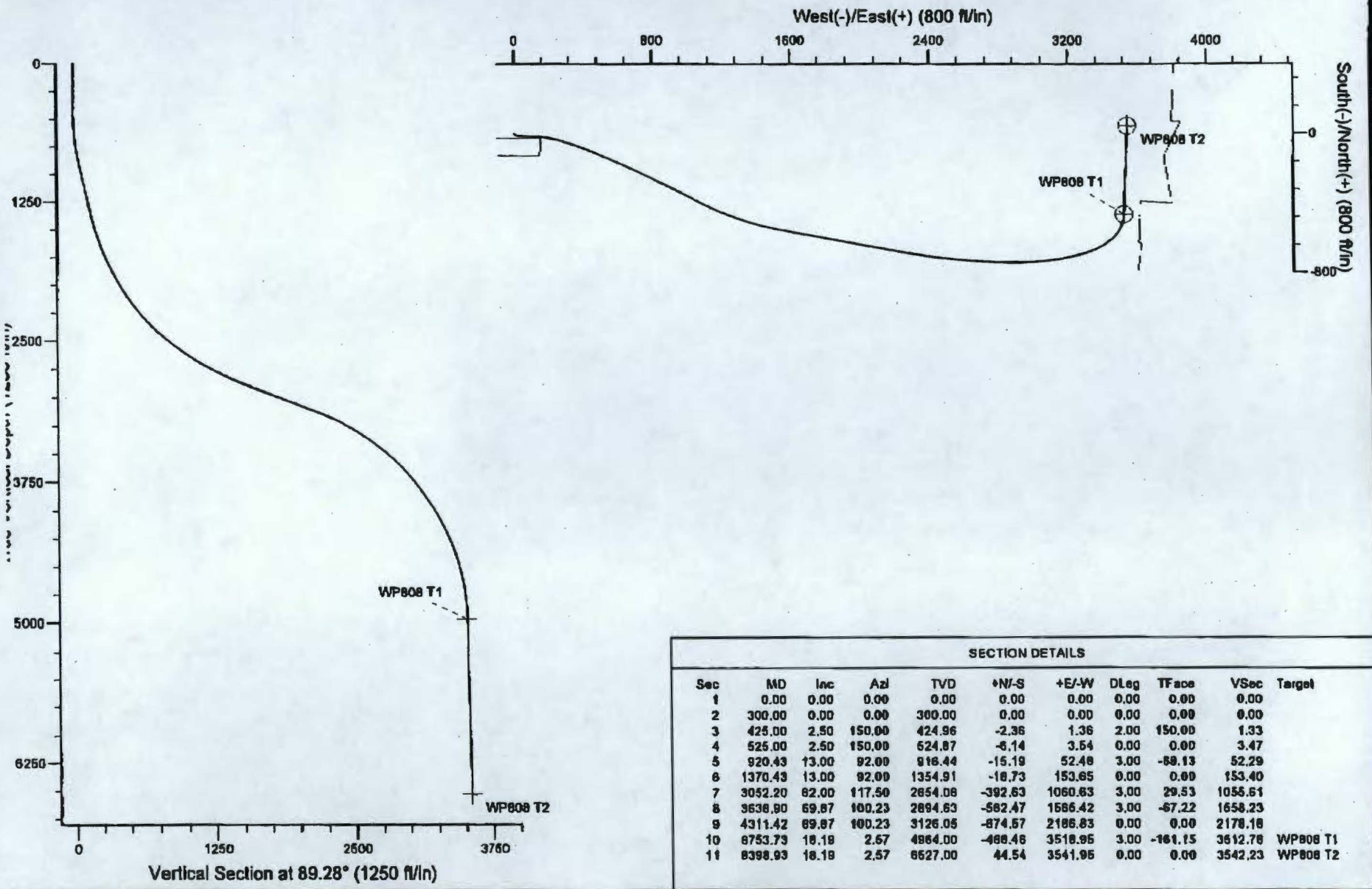
Magnetic Model:	IGRF2010
Date:	10-Mar-10
Declination:	12.76°
Inclination/Dip:	58.86°
Field Strength:	47566

Grid North is 0.22° West of True North (Grid Convergence)
Magnetic North is 12.76° East of True North (Magnetic Declination)
Magnetic North is 12.98° East of Grid North (Magnetic Convergence)

To convert a True Direction to a Grid Direction, Add 0.22°
To convert a Magnetic Direction to a True Direction, Add 12.76° East
To convert a Magnetic Direction to a Grid Direction, Add 12.98°

018/021

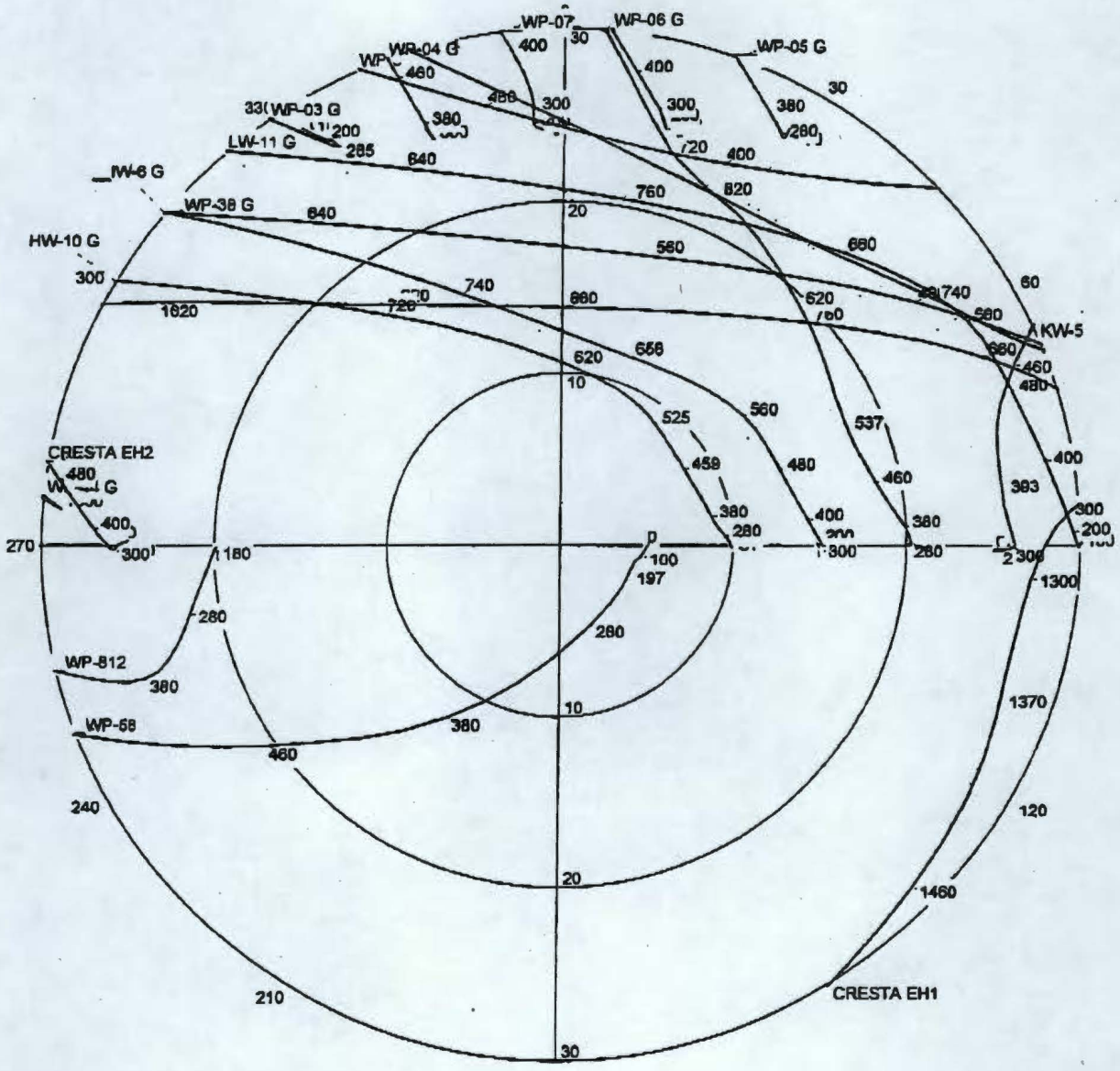
Az to Grid North Je North: 0.22° Magnetic North: 12.98° Magnetic Field Strength: 47586.3nT Dip Angle: 68.86° Date: 3/10/2010 Model: IGRF2010	BreitBurn Energy Project: West Pico Site: West Pico Well: WP-59 (Slot 808) Design: Plan #7 (10-Mar-10)	_WP-59 (Slot 808) NAD 1927 (NADCON CONUS) California V 405 Reference: Grid Well @ 187.00ft (Original Well Elev) Northing: 202370.48 Easting: 1882017.05	HALLIBURTON Sperry Drilling Services



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
3	425.00	2.50	150.00	424.96	-2.36	1.36	2.00	150.00	1.33	
4	525.00	2.50	150.00	524.87	-6.14	3.54	0.00	0.00	3.47	
5	920.43	13.00	92.00	916.44	-15.19	52.48	3.00	-58.13	52.29	
6	1370.43	13.00	92.00	1354.91	-18.73	153.65	0.00	0.00	153.40	
7	3052.20	62.00	117.50	2654.08	-392.63	1060.63	3.00	29.53	1058.61	
8	3636.90	69.87	100.23	2894.63	-582.47	1586.42	3.00	-67.22	1658.23	
9	4311.42	69.87	100.23	3126.05	-874.57	2186.83	0.00	0.00	2178.16	
10	8753.73	18.19	2.57	4964.00	-466.46	3518.95	3.00	-161.15	3512.76	WP808 T1
11	8398.93	18.19	2.57	6627.00	44.54	3541.95	0.00	0.00	3542.23	WP808 T2

G T M Azimuths to Grid North True North: 0.22° Magnetic North: 12.98° Magnetic Field Strength: 47566.3nT Dip Angle: 58.86° Date: 3/10/2010 Model: IGRF2010	BreitBurn Energy Project: West Pico Site: West Pico Well: WP-59 (Slot 808) Wellbore: Wellbore #1 Design: Plan #7 (10-Mar-10)	HALLIBURTON Sperry Drilling Services



Azimuth from North [°] vs Centre to Centre Separation [10 ft/in]

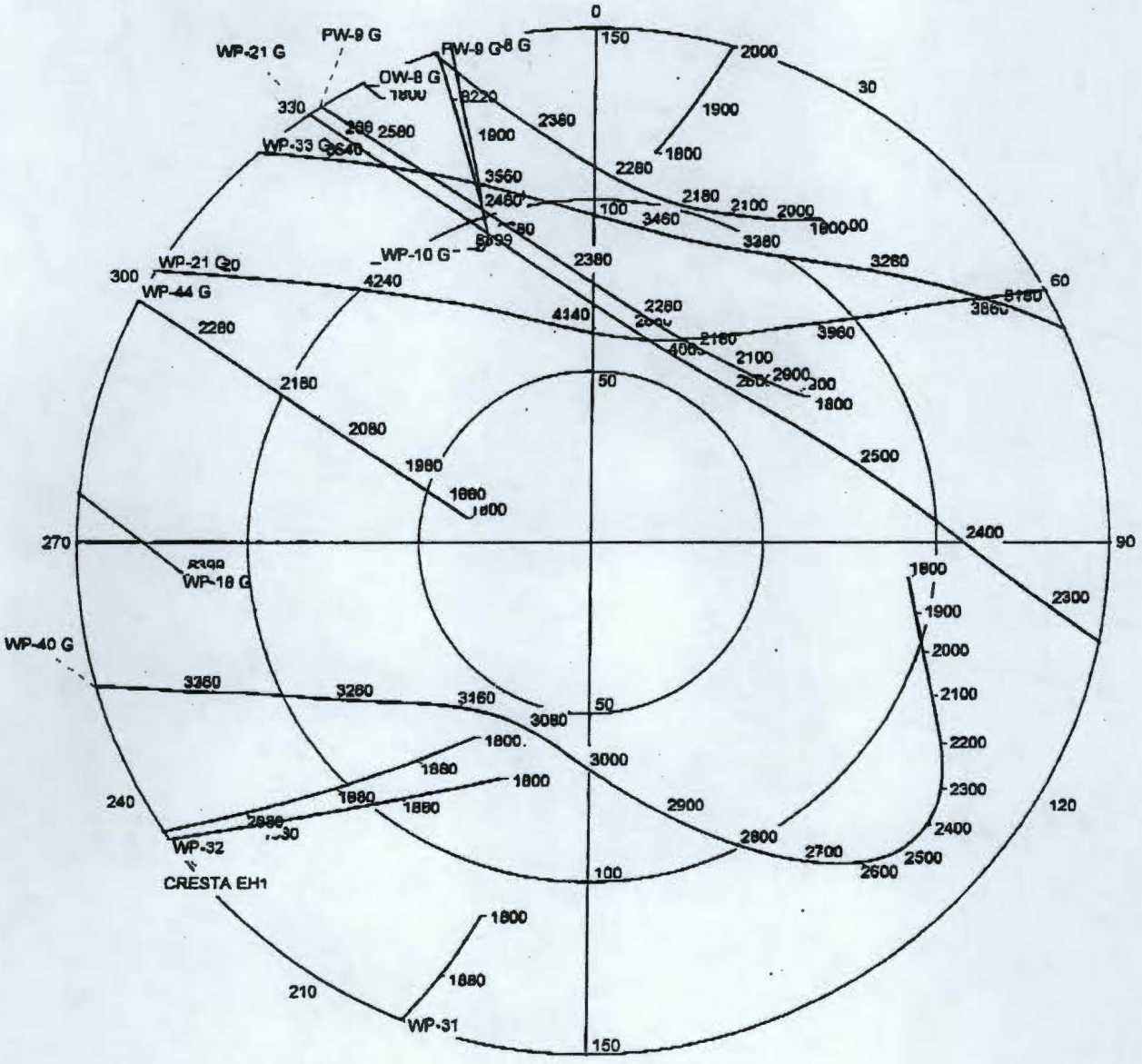
Azimuths to Grid North
True North: 0.22°
Magnetic North: 12.98°

Magnetic Field
Strength: 47586.3nT
Dip Angle: 58.86°
Date: 3/10/2010
Model: IGRF2010

BreitBurn Energy

Project: West Pico
Site: West Pico
Well: WP-59 (Slot 808)
Wellbore: Wellbore #1
Design: Plan #7 (10-Mar-10)

HALLIBURTON
Sperry Drilling Services



Azimuth from North [°] vs Centre to Centre Separation [50 ft/in]

CHRONOLOGY
OCCIDENTAL PETROLEUM
BEVERLY HILLS OIL FIELD
PICO DRILL SITE
9165 WEST PICO BOULEVARD

ZA Case No.	Date	Purpose
17683	August 17, 1965	Controlled drill site U-131 - 70 acres/3 exploratory oil wells/ enclosed structure resembling high rise buildings/one well only. C2 zoned lots between Doheny and Oakhurst.
17683	October 1, 1965	Plans approved for landscaping wells, etc.
17683	October 7, 1965	Plans approved for derrick structure.
17683	October 15, 1965	Plans approved for equipment and control buildings.
17683	March 10, 1966	Authority granted for drilling of remaining two exploratory wells as permitted on August 17, 1965.
18200	May 27, 1966	Controlled drill site - U-132 (93 acres)/two exploratory wells and three production wells.
18201	June 10, 1966	Surface operations/drilling of 11 production wells - U-131/one well for every five acres (i.e., 14 wells permitted).
18200	August 18, 1966	Authority granted for two production wells as permitted on May 27, 1966.
18200	August 26, 1966	Correction letter/August 18, 1966/ three production wells permitted not two.
18471	October 31, 1966	Controlled drill site - U-133 - 92 acres/two exploratory wells and three production wells.
18484	November 3, 1966	Surface operations/drilling of 13 production wells - U-132 (see ZA 18200).

18623	January 17, 1967	Controlled drill site - U-150 (149 acres)/seven production wells.
17683	April 20, 1967	Well cellar expansion for 22 wells/plans approved for two parallel rows.
17683	May 16, 1967	Modification of Condition No. 5 - wells to be located at least 50 feet from Doheny Drive curb line/derrick no closer than 20 feet from Doheny Drive property line.
18893	July 28, 1967	Expansion of drill site to three adjacent C2 zoned lots to west - drill site now located between Doheny and Cardiff.
18191	August 14, 1967	Authorized three subsurface production wells on 103 acre site in Beverly Hills.
19189	March 14, 1968	One additional production well/ Beverly Hills - see ZA 18191.
19279	April 4, 1968	One additional production well - Beverly Hills - see ZA 18191 and ZA 19189.
19278	April 5, 1968	22 production wells - U-150 - see ZA 18623.
19279	April 23, 1968	Correction letter - corrected to reference ZA 18191.
19320	May 13, 1968	Two additional production wells/ Beverly Hills - see ZA 18191, ZA 19189 and ZA 19279.
17683	March 4, 1969	Plan approval for new well cellar for 20 water injection wells/expansion of well cellar for 49 wells (see ZA 17683 for 22 wells) - 69 wells existing??
20015	October 28, 1969	One additional production well - Beverly Hills - see ZA 18191, ZA 19189, ZA 19279 and ZA 19320.
17683	December 21, 1970	Conversion of 20 water injection wells to production wells (see plan approval dated March 4, 1969).

20529	May 6, 1971	One additional injection wells - Beverly Hills/one additional production well - see ZA 18191, ZA 19189, ZA 19279, ZA 19320 and ZA 20015.
20637	August 19, 1971	On e additional oil well - Beverly Hills (13 total).
20679	October 8, 1971	Five additional wells - U-131/two additional wells U-132 (see ZA 17683 and ZA 18200). Reduce 29 wells to 22 wells - U-150 (see ZA 18623 and ZA 19278).
20677	October 12, 1971	Five injection wells - U-131.
20678	October 15, 1971	Two injection wells - U-132.
20869	March 13, 1972	Additional oil well - Beverly Hills and use of well for injection purposes.
17683 19278 20677	May 14, 1973	Oil well permit/Fire Department
20677	August 14, 1973	Oil well permit/Fire Department
17683	August 27, 1973	Modification of Condition No. 16 to retain drilling structure for 5 years to December 31, 1978.
20815	January 11, 1972	One additional production well - U-131.
20842	February 18, 1972	One additional production well - Beverly Hills.
20989	July 11, 1972	One additional production well - U-131.
21209	May 29, 1973	One additional production well - Beverly Hills.
17683	February 22, 1979	Drilling permit/Fire Department
CUZ 79-102	May 10, 1979	Temporary core hole - U-131.
ZV 79-137-0	June 29, 1979	One additional production well - Beverly Hills.
17683	January 5, 1984	Retention oil derrick to December 31, 1986.

17683	June 14, 1984	Approval of plot plans for relocation of seven flow lines.
17683	June 19, 1984	Inspection of site; no violation of conditions.
17683	June 9, 1988	City Attorney letter requests investigation of complaints.
17683	June 2, 1988	Building and Safety letter citing potential violations.
17683	June 28, 1988	Building and Safety letter - Mrs. Elizabeth Mortoner - violations.
17683	July 20, 1988	Councilman Zev Yaroslavsky requests investigation of violation.
17683	July 28, 1988	Letter to Councilman Yaroslavsky - confirms investigation.
17683	August 10, 1988	Letter from Building and Safety - Clarification of status of "Portable Derricks".
17683	August 25, 1988	Letter to Building and Safety - "Portable" or "Temporary" Derricks not controlled.
17683	September 19, 1988	Councilman Yarosalvsky and City Attorney request further investigation of complaints - Answer prepared dated October 14, 1988.
17683	January 6, 1989	Further inquiry from Councilman Yaroslavsky.
17683	March 17, 1989	Formal request from Councilman Yaroslavsky for hearing and consideration of new conditions of methods and operation.
17683	July 6, 1989	Public hearing set for July 6, 1989; deficient public hearing notice; rescheduled.
17683	August 10, 1989	Public hearing held - decision with new conditions issued on September 12, 1989.

17683 BZA 4121	December 9, 1989	Appeal hearing before Board of Zoning Appeals cancelled at request of City Attorney.
17683 BZA 4121	January 2, 1990	Board of Zoning Appeals hearing - Deleted Condition No. 5 - requirement for enclosing structure.
17683 BZA 4121	March 2, 1990	Board of Zoning Appeals report issued.

CPC 89-0395 May 10, 1993 One Year Extension of Time for Ordinance No. 165,888 (CW-188) granted to June 13, 1994 (Third Extension of Time)

17683 BZA 4121 April 8, 1993 All interests in Pico Dist. Site Transferred from OXY USA Inc, To Breit Burn Energy Corporation

17683 January 25, 1994 Earthquake Energy filed Failure to Commence Operations by Truck/Rail Crude Transport & Duration (6 months) Hours of Operation

17683 March 24, 1994 Yates Corday requests control of Hours and number of Truck per 24 hour period - Correction Letter issued.

95-0153 8/23/95

BZA 5158 4/3/96

ZA 17683 PAD

BZA No. 2000-1697

CF 00-1842

MOD. of Cond #8 of BZA 4121 (DAYS of OPERATION)

OVERRULED 95-0153 PAD Approved Remodel of Site ("modernization project") BZA sustained; made modifications; City Council certified EIR

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Properties Overview

Santa Maria Basin

The Santa Maria Basin consists primarily of oil reserves and prospects in multiple geologic horizons and is one of California's largest producing oil regions. Conventional production from PCEC's Orcutt properties is derived from the Monterey, Point Sal and SX Sand formations, which are characterized by long-lived reserves. In addition, the Diatomite and Careaga formations, located at depths less than 900 feet below the surface, provide access to unconventional oil reserves. The portion of the underlying properties located in the Orcutt oilfield consists of 4,482 gross (3,608 net) acres.

Orcutt Conventional

The Orcutt oilfield was discovered in 1901 and has produced continuously since that time. Initial production from the Orcutt oilfield came from the Monterey and Point Sal formations, which are located at depths between 1,700 and 2,700 feet below the surface. The Monterey formation in the Orcutt oilfield is a fractured dolomitic shale that is highly productive. The Point Sal formation is a shallow marine deposited turbidite sandstone that is also highly productive. Oil recovery from these formations is enhanced by waterflood injection. Cumulative production from the Monterey and Point Sal is approximately 180 MMBoe. Beginning in 2005 the SX formation underlying PCEC's Orcutt properties was developed. The SX formation is a silty sandstone at a depth of 1,300 feet below the surface. Cumulative production from the SX formation since 2005 is approximately 0.8 MMBoe. A waterflood was initiated for the SX formation in 2009 to maintain reservoir pressure. The producing wells are all artificially lifted with rod pumps and electric submersible pumps. There are currently 125 Monterey, Point Sal and SX formation producing wells, and 58 waterflood injection wells on PCEC's conventional Orcutt properties. PCEC has operated its Orcutt properties for over seven years. PCEC operates 100% of these assets and has an average working interest of approximately 95%.

Orcutt Diatomite

The Diatomite is a massive silica-rich rock composed of the shells of single-cell organisms that were abundant during certain geologic periods. A Diatomite formation has very high porosity (up to 70%) but very low permeability, meaning fluids will not flow through the rock. Enhanced recovery techniques are used to produce oil from a Diatomite formation. In the 1990s, companies in California began to develop the Diatomite formation utilizing cyclic steam injection to enable oil recovery. These Diatomite formations have very high oil content but are unable to flow oil to a well bore without the cyclic steam injection. The recovery process in the Diatomite consists of injecting steam into each well, letting the steam soak for one to two days, and then producing the well by flowing the hot oil and water to surface. The process is sometimes enhanced by pumping the oil and water for one to four weeks, until the well is ready to be steamed again.

The Diatomite formation in the Orcutt oilfield is a shallow zone that lies approximately 100 to 900 feet below the surface. PCEC began cyclic steam development in 2005 and was producing 49 Diatomite wells using the process described above as of December 31, 2011. PCEC began a project expansion in 2011 to increase the total Diatomite project to 96 wells.

PCEC has targeted the Diatomite formation at depths greater than 400 feet below the surface for development, the area of which covers 750 acres within PCEC's Orcutt properties. PCEC has developed approximately 30 acres to date, and produced over 420 MBoe from the Diatomite oilfield.

Careaga formation

Overlying the Diatomite formation in the Orcutt oilfield is the Careaga sandstone reservoir. The Careaga outcrops at the surface in some locations and extends to depths of 90 to 160 feet below the surface. This reservoir contains very heavy oil (11 degree API) that can flow to the surface through seeps. PCEC is collecting the Careaga oil that flows to the surface in containers utilizing a French drain system to gather the oil. PCEC is producing approximately 130 Bbls/d

of the Careaga oil that is pumped from the containers and sold with the rest of its crude oil production. Cumulative production from the Careaga formation is approximately 200 MBoe.

Los Angeles Basin

Similar to the Santa Maria Basin, the Los Angeles Basin is characterized by its mature oilfields with long production histories that have produced more than nine billion Bbls of oil since its discovery in 1892. The Underlying Properties in the Los Angeles Basin consist of the West Pico, Sawtelle and East Coyote properties. These properties are characterized by their long-lived reserves with well established, predictable production profiles and low decline rates. The portion of the Underlying Properties located in the Los Angeles Basin consists of 2,107 gross (1,049 net) acres after giving effect to the East Coyote and Sawtelle Reversion. Prior to the East Coyote and Sawtelle Reversion the portion of the Underlying Properties located in the Los Angeles Basin consisted of 500 net acres.

West Pico

The West Pico Unit was developed from an urban drilling and production site and came on production in 1966. In 2000, PCEC undertook a modernization of its facility and installed a permanently enclosed, electric, soundproof drilling and workover rig that allows for uninterrupted drilling and workover operations despite its close proximity to residential neighborhoods. Production from the West Pico Unit comes from sandstone reservoirs ranging in depths between 4,000 and 7,000 feet below the surface. Oil recovery is enhanced by waterflood injection. Cumulative production from the West Pico Unit is approximately 70 MMBoe. The producing wells in the West Pico Unit are all artificially lifted with rod pumps and electric submersible pumps. There are currently 37 producing wells and 6 waterflood injection wells in the West Pico Unit. Twelve new wells have been drilled from this location since 2003. PCEC has the potential to drill up to 15 additional wells in the West Pico Unit.

West Pico also includes three wells held by the Stocker JV, a joint venture between PCEC and PXP. In accordance with the contractual arrangements with PXP, PXP operates these three wells that were drilled from its facility to three lease line locations between PXP's and PCEC's production units. These wells are equally owned by PCEC and PXP, and PCEC receives the production attributable to its properties.

Sawtelle

PCEC's Sawtelle property is similarly situated in an urban environment. The Sawtelle oilfield was discovered in 1965 and is currently the deepest producing oilfield in the Los Angeles Basin with well depths up to 11,500 feet below the surface. Production at PCEC's Sawtelle property comes from sandstone reservoirs in three separate pools ranging in depth between 7,500 and 11,500 feet below the surface. Oil recovery is enhanced by waterflood injection in two of the three pools. Cumulative production from the Sawtelle property is approximately 19 MMBoe. The producing wells are all artificially lifted with hydraulic pumps, and electric submersible pumps. There are currently 11 producing wells and three waterflood injection wells in PCEC's Sawtelle property.

East Coyote

The East Coyote oilfield was discovered in 1909. Production at PCEC's East Coyote property comes from three sandstone formations ranging in depth from 2,000 to 6,000 feet below the surface. Cumulative production from PCEC's East Coyote property is approximately 106 MMBoe. The producing wells are all artificially lifted with rod pumps and electric submersible pumps. There are currently 46 producing wells, and 14 waterflood injection wells in PCEC's East Coyote property.

Contact: Sarah Newell • Sarah.Newell@BNYMellon.com • 601 Travis Street, 16th Floor • Houston, TX 77002

Business Wire InvestorHQ℠

Connect Create Collaborate

Dylan Sittig <dylan.sittig@lacity.org>

Fwd: ZA-1989-17683-PA2; West Pico Drill Site; inspection and CEQA

Estineh Mailian <estineh.mailian@lacity.org> Mon, Jun 8, 2020 at 10:27 PM
To: Dylan Sittig <dylan.sittig@lacity.org>
Cc: Vanessa Soto <vanessa.soto@lacity.org>, Edber Macedo <edber.macedo@lacity.org>, Theodore Irving <theodore.irving@lacity.org>

Dylan,

Please include this email to the case file.

Thank you,
Estineh

LOS ANGELES CITY PLANNING

Estineh Mailian
Chief Zoning Administrator
Los Angeles City Planning
200 N. Spring St., Room 763
Los Angeles, CA 90012
Planning4LA.org
T (213) 978-1318 | D (213) 978-1313
E-NEWS

---------- Forwarded message ---------
From: **Michael Salman** <salman@history.ucla.edu>
Date: Fri, Jun 5, 2020 at 3:50 PM
Subject: ZA-1989-17683-PA2; West Pico Drill Site; inspection and CEQA
To: <estineh.mailian@lacity.org>, <vince.bertoni@lacity.org>, <lisa.webber@lacity.org>
Cc: Rae Drazin <rae@md-advocate.net>, Richard Weiner <rswatty@ca.rr.com>, Rabbi Yonah Bookstein <rabbiyonah@gmail.com>, Edber Macedo <edber.macedo@lacity.org>

Dear Ms. Mailian, Mr. Bertoni, and Ms. Webber,

Please see the attached letter of grave concern about the need for an inspection of the West Pico Drill Site as a predicate to begin proper implementation of CEQA in the Review of Compliance, ZA-1989-17683-PA2.

There is still time to get this right, which would be to everyone's benefit.

Yours

Michael Salman

To Dir DCP & ZA on CEQA & Review of Compliance ZA-1989-17683-PA2 6-5-20.pdf
484K

2533 4th Ave
Los Angeles, CA 90018
June 5, 2020

Re: ZA-1989-17683-PA2; ENV-2020-1328-EAF

Dear Director Bertoni, Assistant Director Webber, and Chief ZA Mailian,

I am writing out of grave and urgent concern that the Review of Compliance of the West Pico Drill Site is being unduly rushed in a way that will poorly serve everyone – the public, the operating oil company, the City, and the Planning Department itself.

Moving the case forward without first having the Petroleum Administrator perform or lead a comprehensive compliance inspection of the drill site would be profoundly wrong on many levels. It would undermine the validity of any preliminary environmental clearance because it would be the poster child for NOT taking the "hard look" that CEQA requires. Not only would there not be a "hard look" at the project under review as required by CEQA, but there would not even be a credible effort to try to ascertain the scope of the project that needs to be reviewed under CEQA.

The Petroleum Administrator could require that the site operator hire and pay for a professional third party site inspection by a qualified firm to be approved by the Petroleum Administrator, according to specifications approved by the Petroleum Administrator, with the final inspection report to be reviewed and approved with discretion by the Petroleum Administrator. There are other ways for the cost of a quality professional inspection to fall to the site operator, rather than to the City. But the City ultimately has a responsibility here.

This Review is a case that can be resolved by consensus or near consensus solution, if it is handled correctly, with due diligence, and without undue haste. The recent Rancho Park case was resolved with the community, the Council District, and the site operator joining in unison. Rancho Park began with an inspection by the Petroleum Administrator, and that inspection laid the groundwork for a common recognition of problems and then the creation of a consensus on how to resolve them.

The Rancho Park case proved the value of doing an inspection first. It concluded with no litigation, unlike the Jefferson case. And the model established at Rancho Park is a perfect fit for West Pico, where the record of violations, noncompliance, and City failures are more profound. It is all too easy to see how a mishandled West Pico case would end up in court, with the CEQA issues at the core of it all. That should not be allowed to happen.

I would be making this argument to do an inspection, to do CEQA right, and handle this Review of Compliance by the book under any circumstances, because regularity in administration is central to the rule of law, and it is central to good regulation that keeps people safer and allows proper economic activity.

But we are not living in just any circumstances. There is a pandemic. There is an economic emergency. There is a civil rights emergency and a state of civil unrest and there has literally been a state of emergency. There is a crisis of the rule of law. This is no time to rush a Review of Compliance case. Rushing will be injurious to all parties. Taking the time to handle the case correctly will save time, money, and aggravation. Taking due time in this will not hold up a development project. There is no legitimate downside to taking the time to handle this case correctly.

I have previously communicated most but not all of this message to Chief ZA Mailian. Today I am adding more information and I am adding Director Bertoni and Assistant Director Webber to my communication because this issue also involves the fundamental autonomy of the DCP and its longer record of implementing CEQA in oil cases.

I know from direct written correspondence from CD5 in March that CD5 has been trying to rush this Review of Conditions case forward without due diligence. I know from direct written correspondence from CD5 that CD5 has made deliberate choices NOT to request a compliance inspection of the site. There have not been logical or rational explanations from CD5 for these actions. In fact, CD5's responses have been self-contradictory.

I bring this up here only to focus light on the question of institutional autonomy for the DCP. If CEQA is violated again in this case (and I will show below that the West Pico Drill Site case starts with 20 years of CEQA violations even before the environmental clearance begins in this current review), it will mainly be the DCP entangled in the matter for years. CD5 will change leadership during the mess.

1) CEQA Problems are Inherent in this Case: Please do not Multiply Them

By rushing the Review of Compliance forward without first having the Petroleum Administrator conduct or lead or contract out a comprehensive compliance inspection, the Planning Department will be committing major errors in its duty to implement CEQA. Those errors would be piled on top of numerous already existing errors and violations of CEQA dating back to the 1999 EIR and the 2000 determination (ZA-1989-17683-PAD).

This Review of Compliance is not about the proposed project that was studied by the EIR in 1999. It is a distinctly different case about a different project, which can only be subjected to environmental review once its scope can be estimated. There is nothing in the PA Application that helps to define the scope of the project that must be reviewed. A full estimate of that scope can only be developed by a professional comprehensive compliance inspection that goes on site and also reviews all permitting and approval records, as the Petroleum Administrator did at Rancho Park in 2017.

It is not a matter of speculation to suggest that the scope of the project under review now is distinctly different from that studied in the 1999 EIR. It is a hard fact.

Although no one can claim to try to define or know or study the full scope of the current project without a comprehensive compliance inspection, it is proven beyond a shadow of a doubt by public record documents that there have been multiple projects executed at the West Pico Drill Site since the 1999 EIR and 2000 ZA approval that were not part of the project proposal reviewed in 1999 and 2000.

Two new wells have been drilled, old wells re-drilled, and microturbines installed, all without applications to the ZA required by the LAMC and by ZA assigned conditions (including conditions that expressly prohibit electric generation on site and in the larger Oil Drilling District). All of these projects required environmental clearance under CEQA. They all required ZA approval. None were reviewed. None were approved. None were part of the proposal reviewed by the 1999 EIR.

Ergo, the current Review is a Review of a project that is NOT the same as that reviewed in the 1999 EIR. A fresh environmental clearance is needed. We know that already.

But the situation with regard to CEQA is worse than that.

Problems with CEQA in this case go back to the 1999 EIR and the 2000 determination. The required CEQA process back then was never completed, leaving that case out of compliance with CEQA. The June

2001 Settlement Agreement changed the mitigation measures assigned to that project and the Controlled Drill Site, and it changed the Mitigation Monitoring and Reporting Program (MMRP) that was part of the EIR and required by CEQA. State law required that the EIR needed to be updated, but it was not updated. Nor were the new mitigation measures written into an updated ZA determination, nor was an updated MMRP produced. All of this violated State law and has not been corrected to this day.

Some of the mitigation measures and MMRP elements were performed, but others were not.

One of the most important new mitigation measures and MMRP elements mandated by the 2001 Settlement Agreement was that there shall be ZA Reviews of Compliance every five years, commencing five years after the two-year post-construction checkup review that was required by Condition 78 of the 2000 determination. The two-year checkup review was conducted in 2005-06 (ZA-1989-17683-PA1). No Five Year Review was held in 2010-11 or 2015-16 or ever, until now.

These are not the only lingering errors from the 1999 EIR and 2000 determination. There are others. But this is enough for now to show how the City begins this Review of Compliance from a starting point of being out of compliance with CEQA.

In 2016, the City settled a lawsuit about the general pattern and practice of not implementing CEQA properly in oil cases. As a result, ZA Memo 133 created new guidelines for the implementation of CEQA in oil cases in the City. In 2019, the California Court of Appeals vigorously and loudly upheld the validity of ZA Memo 133. But just a year later a complex case with major CEQA issues is being rushed forward without due diligence, without a "hard look," without an attempt to even become aware of the scope of the project and hence also without an attempt to become aware of the potential scope of mitigation measures that need to be considered within the CEQA process.

Please do not do this. It is not necessary. It would be bad for everyone: the public, the site operator, the DCP, the City, and CD5 even if they do not understand it.

Those are not the only non-compliance issues. There are several more, at least. All contribute to defining the scope of the current project for which CEQA requires a review, and they all point to the need for new or revised mitigation measures that also must be considered within the CEQA process.

There have been two LAFD Notices of Violation, in 2017 and 2018, for leaving spilled or leaked petroleum exposed on cellars or the ground or other surfaces. Those violations of the Fire Code are also violations of Conditions 46, 47, 57, and 61 of the 2000 determination (ZA-1989-17683-PAD).

Those same four Conditions (46, 47, 57, and 61) are at issue in odor complaints from members of the community. Odor at the site has also been addressed by Council Member Koretz in first-person testimony at a meeting of the City Council's ECCEJ Committee on October 15, 2019, where he said: "You can smell the oil. You can taste the oil."

PCEC's self-reported "findings" in its PA application includes only one record of a daily walk-through inspection for odors required by Condition 61 of the 2000 determination. That record dates from late December 2019, days before the PA Application was originally due. Twenty years of records are at issue, but a record from one day in late December 2019 when the PA Application was due a few days later is all that is in the PA Application. PCEC did not submit the application until two months later, but still did not submit any additional daily odor inspection records, not even from the intervening two months.

PCEC's self-reported "findings" contains the following statements about Conditions 47 and 57 governing, respectively, disposal of waste oil and cleanliness of oil production equipment around wells so as to

prevent odors, emissions, etc. Please note that PCEC's statement is contradicted by the LAFD Notices of Violation for repeatedly not cleaning up spilled or leaked oil:

Condition B-47

Waste Disposal. All waste substances, including drilling muds or waste oil, produced or used in connection with oil drilling operations or oil production shall be retained in water-tight receptors from which they may be piped or hauled for reuse, recycling or sent for terminal disposal in a dumping area specifically approved for such disposal by the Los Angeles Regional Water Quality Control Board or any other responsible agency.

Compliance

The only waste oil product generated on site is oily sand. The sand is hauled to Anterra Energy Services, Inc. located in Oxnard California.

Condition B-57

Odor Control. The following odor control measures are imposed:

a) All sampling pans or trays, open drains, pits or sumps shall be kept clean and without any significant oil or sludge accumulation.
b) When future replacements are made to applicable equipment, bellow valves and seal-less pumps shall be utilized if appropriate and feasible for said equipment.
c) Any vacuum truck operations conducted on the site shall utilize vapor control equipment.

Compliance

This mitigation measure is implemented and has been complied with.

The PA Application for this case is incomplete and inadequate, in terms of what is required by Condition 78 of the 2000 determination. It is incomplete and inadequate also because it says nothing about the drilling of wells, and fails to adequately address the prohibition of microturbines. The only way to recognize just how incomplete it is would be to have the Petroleum Administrator conduct or lead or contract out a comprehensive compliance inspection of the type performed at Rancho Park in 2017. Short of that, the DCP will not know what to ask for in the PA Application and it will not know how to even estimate the scope of the project for review under CEQA. The inspection is needed for the operator, too, so that the operator can know what they need to address in the PA Application.

The alternative to doing this right is to have an already bad mess become a royal mess, under the worst of circumstances.

What follows in part 2 of this letter is an itemization of some of the major violations, with documentation; in part 3, a list of major new mitigation measures and corrective actions that are needed to make things right and bring the site up to date with best practices; and then in part 4 a return to the essential need to begin this process with an inspection and a proper CEQA process.

2) Documented Evidence of Compliance Problems

As you are aware, multiple compliance problems have already been documented by cross-checking the West Pico Drill Site's Planning Department case files against the 2001 Settlement Agreement and public documents available online from CalGEM, LADBS, LAFD, and SCAQMD.

These compliance problems include, but are not limited to:

- **Failure to hold required Five Year Reviews.** Five Year Reviews were not held in 2010-11 and 2015-16, as required by the 2001 Settlement Agreement, and have never been held until now.
- **Installation of microturbines without ZA reviews when expressly prohibited by ZA-assigned conditions.** Five 200 Kilowatt microturbine electric generators (1 Megawatt total) were installed in 2018-19 with no application to or approval from the ZA, despite the express prohibition of electric generation on site or anywhere in the larger Oil Drilling District that is mandated in ZA Condition 49 of the 2000 determination in ZA-1989-17683-PAD and in ZA Condition 1 (applying LAMC 13.01.F.43) in the 1965 "mother case" ZA-1965-17683. Condition 1 of the 1965 "mother case" still applies to the half of the Controlled Drill Site that houses the microturbines. Condition 49 of the 2000 determination applies, too, because it prohibits electric generation for the Controlled Drill Site both on the site and also anywhere in the Oil Drilling District (that the 2000 determination split the unified whole Controlled Drill Site in half to rewrite conditions that sometimes applied to both halves was one more of multiple errors that need to be cleaned up). The operator acknowledges in its current PA Application for this review that it installed one microturbine, but it erroneously claims that microturbines are not prohibited, and the SCAQMD permit records for the drill site show that five 200 Kilowatt microturbines were installed.
    - SCAQMD permit records are here, under the "Equipment List" tab: https://xappprod.aqmd.gov/find//facility/AQMDsearch?facilityID=98158
- **Drilling of two new wells without ZA approvals required by LAMC 13.01.** Two new oil wells, West Pico Well #58 (API # 03726615) and Well #59 (API # 03727133), were drilled in 2005-06 and 2010, respectively, without application to or approval from the ZA, despite the express requirements of LAMC 13.01.H and 13.01.I for such approval.
    - LAMC 13.01:
        - **H. Drilling Site Requirements**. Any person desiring to drill, deepen or maintain an oil well in an oil drilling district that has been established by ordinance, or to drill or deepen and subsequently maintain an oil well in the M3 Zone within 500 feet of a more restrictive zone shall file an application in the Department of City Planning on a form provided by the Department, requesting a determination of the conditions under which the operations may be conducted. (Para. Amended by Ord. No. 173,492, Eff. 10/10/00.)
        - **I. Permits**. (Amended by Ord. No. 173,268, Eff. 7/1/00, Oper. 7/1/00.) No person shall drill, deepen or maintain an oil well or convert an oil well from one class to the other and no permits shall be issued for that use, until a determination has been made by the Zoning Administrator or Area Planning Commission pursuant to the procedure prescribed in Subsection H of this section.

- CalGEM permit applications, permits, and work history records prove the wells were drilled. Documents available here, organized in reverse chronological order: https://secure.conservation.ca.gov/WellRecord/037/03726615/03726615_2019-04-17_DATA.pdf and https://secure.conservation.ca.gov/WellRecord/037/03727133/03727133_2018-12-07_DATA.pdf)
- The last new well approved by a ZA was approved by the ZA in 1979, with a tight expiration date to utilize the approval or have it expire.
- No more than 60 wells have ever existed on the site. No more than 58 wells have been approved by the ZA. A well cellar with larger capacity has been approved, but a well cellar is not a well, and wells require specific approval as per LAMC 13.01.
- The 2000 determination expressly did not approve any new wells.
- There were no ZA approvals for the wells drilled in 2005-06 and 2010.
- The ZA who wrote the March 2006 determination on the two-year checkup Review did not know a new well was drilled while the Review case was on his desk because there was no application and no site inspection by a qualified professional.

- **Re-drilling of at least one existing well without ZA approvals required by LAMC 13.01.** At least one existing oil well (identified from a spot check of 10% of CalGEM's well records for the drill site), HW Well #10 (API # 03721994) was re-drilled in 2004, without application to or approval from the ZA, despite the express requirements of LAMC 13.01.H and 13.01.I for such approval. I have reviewed CalGEM records for only approximately 10% of the wells at the site.
  - CalGEM permit applications, permits, and work history records prove the well was re-drilled. Documents available here, organized in reverse chronological order: https://secure.conservation.ca.gov/WellRecord/037/03721994/03721994_DATA_2014-08-25.pdf)
  - There are no ZA approvals for these projects.
- **Operator claims that 12 new wells have been drilled at the site since 2003.** PCEC's offshoot, the Pacific Coast Royalty Trust, an SEC regulated entity that trades on the NYSE, claims that "Twelve new wells have been drilled from this location since 2003." This appears to be an inaccurate statement, but it might imprecisely refer to the re-drilling of existing wells as well as the drilling of two new wells. A full review of CalGEM permit and work history records for all 59 wells that have existed at the drill site will reveal the actual total number of drilling projects since the last time the ZA approved a drilling project, which appears to have been June 29, 1979, when the ZA approved the drilling of one new well in ZV-79-137-0.
  - Document available here**: https://royt.q4web.com/trust-overview/properties-overview/default.aspx**
- **All projects undertaken without ZA review also, per force, violated CEQA since Planning is the lead agency for CEQA reviews of projects at the drill site.** Each of these projects, including at least one re-drilled well, two newly drilled wells, and the installation of five 200 Kilowatt microturbines required environmental clearance under CEQA, but the operator skirted CEQA review by not applying to the ZA for approval, and the operator wrongly told DOGGR (old name

of CalGEM) that the local lead agency did not require any CEQA documents or clearance for drilling new wells.

- **Repeated LAFD Notices of Violation for leaving spilled or leaked Petroleum on surfaces, which also violated of Conditions 46 ("Avoidance of Nuisance"), 47 ("Waste Disposal"), 57 ("Odor Control"), and 61 ("Leak Detection and Odor Control") of the 2000 determination in ZA-1989-17683-PAD and Condition 1 (applying LAMC 13.01.F.18 and F.37) of the 1965 "mother case" ZA-1965-17683.** The LAFD resumed doing long lapsed annual inspections of drill sites to monitor compliance with the Fire Code in or about 2017. In September 2017 and October 2018, the LAFD issued Notices of "Fire/Life Safety Violation" at the West Pico Drill Site for the violation of "L.A.M.C. 57.5706.3.2.2 Discharge and Combustible Materials on Ground." In 2017, the citation specified "You are hereby ordered to remove any waste petroleum, petroleum refuse or waste matter from the surface of the ground, and walls of the cellars." In 2018, the citation specified "You are hereby ordered to remove any waste petroleum, petroleum refuse or waste matter from the surface of the ground, around or near any oil well, derrick, pump, cellar, tank, oil pump, or combustible structure." These specifications are not quotations of the code, so they would seem to be possible descriptions of places where LAFD found spilled or leaked petroleum.
    - Copies of LAFD Notices of Violation are attached to this letter**.**
- **Odor Problems as reported in first person testimony of Council Member Paul Koretz in City Council Committee on October 15, 2019.** Numerous neighbors have complained of petroleum odors around the drill site over the past several years, but Council Member Paul Koretz's personal testimony presented at the City Council's Energy, Climate Change and Environmental Justice Committee's meeting of October 15, 2019 stands out as recorded testimony by an Officer of the City. ***Mr. Koretz said, "You can smell the oil. You can taste the oil."***
    - Transcript of the committee meeting: https://lacity.granicus.com/TranscriptViewer.php?view_id=46&clip_id=19441
    - Audio recording of the committee meeting, with Mr. Koretz's testimony at the 2 hour 23 minute mark: https://lacity.granicus.com/MediaPlayer.php?view_id=46&clip_id=19441).
- **Spilled or leaked petroleum that is not cleaned up could cause odor problems, so the hard documented evidence of petroleum leaks or spills that were not cleaned up further substantiates the personal testimony of Council Member Paul Koretz and complaints from neighbors of the drill site.**
- **The Planning Department Case File on the drill site documents decades of complaints about odors from the drill site, from the 1960s to the present, which have been repeatedly noted and several times affirmed by Reviewing ZAs.** There is a long history of non-compliance and nuisance that has never been satisfactorily addressed.

3) Need for New/Revised Conditions, ZA Findings, and ZA Orders to Monitor and Enforce Compliance, and to Protect the Environment, Public Health, and Public Safety

There is a clear and long history of non-compliance and nuisance at the West Pico Drill Site (and across other drill sites in the City), which indicates the need for stronger enforcement mechanisms and stronger protections for the environment, public health, and public safety.

We request that the ZA to adopt the following new and modified Conditions of Use, Findings, and Orders to protect public health, safety, and the environment, and ensure future compliance with City law at the West Pico Drill Site.

- **New Condition: Require Annual Compliance Inspections Led by Petroleum Administrator:** Annual Compliance Inspection to be led by the Office of the Petroleum Administrator to ascertain compliance with City Code and ZA-assigned conditions. Copies of the inspection report shall be delivered to the ZA and CD5 Council Office. This condition shall stay in force until such time as the City enacts an ordinance requiring Annual Compliance Inspections of all drill sites in the City.
    - **Rationale:** Annual Inspections led by the Office of the Petroleum Administrator are critical to monitoring and enforcing compliance with City Code and ZA-assigned conditions. The City has never performed regular general compliance inspections. As a consequence operators at several drill sites, including West Pico, have ignored ZA conditions and ignored City law requiring applications and approvals for new projects. This is a systemic problem known to the City since at least 2014, but the City has so far failed to fix it. Without regular inspections and enforcement, City Code and ZA-assigned conditions are meaningless. County Public Health and the Petroleum Administrator have recommended that there should be annual inspections. Annual inspections are an essential best practice, and a simple common sense necessity.
    - **Legal and Administrative Viability:** The need for compliance inspections was one of the reasons City Council and the Mayor revived the dormant Office of the Petroleum Administrator in 2016. Since 1958, City Administrative Code 19.48.a has given Officers, Offices, and Departments and Bureaus of the City the power to call upon the Petroleum Administrator to investigate and report on any matter related to oil and gas production in the City. In several cases, the ZA has ordered that operators must be inspected by other agencies, including even State agencies over which the City has no control. For example, Condition 40 of the 2000 determination for West Pico required the operator to arrange for regular inspections by the LAFD (a City agency) and DOGGR (the former name of the State's agency that oversees wells and drilling operations). Similar provisions were included in the 2017 determination on the Jefferson Drill Site. Thus the ZA can require that inspections led by the Petroleum Administrator must be arranged by the site operator.
    - **Economic Viability:** There are several ways that an inspection led by the Petroleum Administrator can be made cost neutral to the City until such time as City Council might pass an Annual Compliance Inspection Ordinance of Oil Drill Sites. An inspection by the Petroleum Administrator could be funded by making the inspection part of an annual Plan Approval process. OR an inspection led by the Petroleum Administrator could be funded by requiring the drill site operator to hire a professional engineering or environmental firm to produce an annual compliance report, with the firm to be approved by the Petroleum Administrator and the report to be reviewed and approved by the Petroleum Administrator with the power to order corrections to the report.
- **New Condition: Require Permanent 24/7 Emissions Monitoring:** Installation and continuous operation of 24/7 Emissions Monitoring using up-to-date equipment that records data and has a central alarm connection to an office that is staffed 24/7. The monitoring system equipment must be approved by the Office of the Petroleum Administrator, either by listing the system on

a pre-approved list or by review of individual application. Emissions data shall be reported quarterly to the Office of the Petroleum Administrator and the ZA, and both offices shall promptly forward copies of the quarterly data to the CD5 Council Office. This Condition will sunset if and when the City enacts an ordinance that requires 24/7 permanent emissions monitoring at all drill sites.

  - **Rationale:** Emissions Monitoring will produce long term and continuous data about emissions, so as to document whether there are intermittent or long term emission problems that need rectification, AND it is also a safety alarm system that will spot the emergence of a problem (e.g., gas leaks and other emissions due to accidents or maintenance problems) instantly at the moment of emergence. The data record will also be evidence demonstrating compliance or non-compliance problems. Requiring Emissions Monitoring at drill sites throughout the City has been recommended by former Petroleum Administrator Uduak Ntuk (now Supervisor of CalGEM), LA County Public Health, and several City Council Members who have introduced and passed motions in Council calling for action on Emissions Monitoring. But the City has taken no steps toward requiring Emissions Monitoring at drill sites.

  - **Existing Conditions Should Already Require Emissions Monitoring:** Condition 46 of the 2000 determination already mandates that proven technological improvements that reduce nuisance, odors, emissions, etc, shall be employed. Condition 1 of the 1965 "mother case" approving the Controlled Drill Site contained this same provision by applying LAMC 13.01.18. Condition 61 of the 2000 determination mandates ineffective measures of "Leak Detection and Odor Control," and does not require public reporting of records; this has proven to be inadequate.

- **Modify Condition 78: Require Recurring Five Year Reviews of Compliance and Conditions by the ZA, as Mandated by the City's 2001 Settlement Agreement:** Amend Condition 78 of the 2000 ZA determination to include the terms of the Settlement Agreement that require recurring Five Year Reviews of Conditions.

  - **Rationale:** This will help prevent the requirement from being ignored again in the future. Required reviews were not performed in 2010-11 and 2015-16.

  - **Required by State Law as Part of the CEQA Process:** The 2001 Settlement Agreement ended a lawsuit over the implementation of CEQA and mandated new/revised mitigation measures and also a new/revised mitigation monitoring and reporting program (MMRP). State law required (and still requires) that the final approval of a project with mitigation measures and MMRP that have been modified from those itemized in an EIR or MND must produce an Addendum or other revision of the EIR or MND, and an Addendum or other revision of the MMRP associated with that environmental clearance. No such Addendum or other revision to the 1999 EIR or 2000 ZA determination was ever made, and the Five Year Reviews were never performed.

- **Finding & Order: Find that the 5 Microturbines Installed in 2018 were Installed Contrary to Express Prohibition; and Order that Within 6 Months they Must Either be Removed or Made the Subject of a Full Application for ZA Review, Including Review Under CEQA. Failure to Comply Shall Prompt Revocation Proceedings Under LAMC 12.27.1.**

  - **Rationale:** Condition 49 of the 2000 determination prohibits electric generation in the drilling district, as did Condition 1 of the 1965 "mother case." The microturbines were

installed in the "production facility" half of the Controlled Drill Site, located at 9151 W Pico Blvd. Although the 2000 determination applies only to the portion of the drill site housing the well heads located at 9101 W Pico Blvd, it still prohibits the generation of electricity anywhere in the Oil Drilling District to provide power to the portion of the site containing the wells, well pumps, and derrick. The 5 microturbines have a generating capacity of 1 Megawatt, and the only part of the Controlled Drill Site using that much power is the section containing the well pumps. In addition, the 1965 "mother case" applies to the entire Controlled Drill Site, including the so-called "production facility" located at 9151 W Pico Blvd. The expansion in size of the "production facility" at 9151 W Pico was approved in 1967 (ZA 18893) as an "extension of the controlled drill site" approved in the 1965 mother case, and all of the conditions assigned in the mother case were expressly carried over to this new portion of the drill site.

- **Finding & Order: Find that Wells Drilled or Re-Drilled since 2003 were Drilled Without Application and ZA Approval Required by LAMC 13.01.H And 13.01.I; and Order that Within 6 Months All Such Wells Must be Made the Subject of a Full Application for ZA Review, Including Review Under CEQA. Failure to Comply Shall Prompt Revocation Proceedings Under LAMC 12.27.1.**
    - **Rationale:** PCEC's offshoot, the Pacific Coast Royalty Trust, publicly claims to investors that PCEC has drilled 12 new wells at the site since 2003. The claim of 12 new wells does not seem likely to be accurate, based on State records of well permits and drilling work history publicly available from CalGEM. Those records show that two new wells have been drilled since 2003, but there have also been projects that re-drilled existing wells.
    - **Required by City and State (CEQA) Laws**: LAMC 13.01.H and 13.01.I clearly require approval by the ZA for well drilling operations. Well drilling also requires CEQA clearance by the Department of City Planning, which is the lead agency for CEQA on these cases in LA City – therefore compliance with State law is at issue, too.

4) Concerns about Process and Thoroughness in this Review

In February 2020, SORO NC wrote to Chief ZA Mailian to request that the Petroleum Administrator be tasked to conduct a comprehensive compliance inspection and report the results before this Review of Compliance is sent forward to Public Hearing. SORO NC has not received a response, and it appears the Review case is moving forward without a comprehensive compliance inspection.

I remain concerned that, without a comprehensive compliance inspection before the Public Hearing, the ZA and the public will deprived of necessary and critical information. And I remain concerned that any later report from the Petroleum Administrator to the ZA after the Public Hearing would impinge on the due process rights of all parties.

The fatal problem that the lack of an inspection poses for CEQA is an even greater problems. The scope of the required CEQA review must in large part be determined by the extent and nature of non-compliance, and the Planning Department cannot claim to know what that scope is if it does not obtain a comprehensive compliance inspection first.

The evidence presented above demonstrates that in addition to non-compliance with specific mitigation measures imposed by ZA conditions, the operator of the site has conducted multiple major projects without ZA review and therefore without CEQA clearance.

It is also evident that the 1999 EIR and 2000 ZA determination contained multiple errors, including but not limited to a failure to update the EIR and the ZA determination after the 2001 Settlement Agreement mandated additional mitigation measures as well as a modified Mitigation Monitoring and Reporting Program (MMRP). Such an update was and is required by State law.

CEQA's legal protections are already compromised and afflicted in this case, going back to 2001. In addition, there were multiple new projects constructed without CEQA clearance that were never part of the project proposal reviewed in the 1999 EIR

A fresh and new and proper environmental review is needed in this case. The nature of the case (non-compliance and projects undertaken without application) necessitates a comprehensive compliance inspection as the predicate to define the scope of review under CEQA.

Please do not hesitate to contact me if you have any questions about this letter.

Yours,

Michael Salman

Connect Create Collaborate

Dylan Sittig <dylan.sittig@lacity.org>

Fwd: West Pico Drill Site

Estineh Mailian <estineh.mailian@lacity.org> Mon, Jun 8, 2020 at 10:26 PM
To: Dylan Sittig <dylan.sittig@lacity.org>
Cc: Vanessa Soto <vanessa.soto@lacity.org>, Jennifer Tobkin <jennifer.tobkin@lacity.org>, Edber Macedo <edber.macedo@lacity.org>, Theodore Irving <theodore.irving@lacity.org>

Dylan,

This is for inclusion in the case file. I will forward other emails I have received to date.

LOS ANGELES CITY PLANNING

Estineh Mailian
Chief Zoning Administrator
Los Angeles City Planning
200 N. Spring St., Room 763
Los Angeles, CA 90012
Planning4LA.org
T (213) 978-1318 | D (213) 978-1313
E-NEWS

---------- Forwarded message ---------
From: **Rabbi E. Muskin** <rabbiemuskin@gmail.com>
Date: Mon, Jun 8, 2020 at 10:11 PM
Subject: West Pico Drill Site
To: <estineh.mailian@lacity.org>
Cc: <paul.koretz@lacity.org>, <andy.shrader@lacity.org>, <edber.macedo@lacity.org>, <joan.pelico@lacity.org>, <martinepstein@soronc.org>, <krystalnavar@soronc.org>

Dear Chief Zoning Administrator Mailian,

I am writing to endorse the request of my colleague, Rabbi Yonah Bookstein together with Dr. Rae Drazin, Richard Weiner from NASE and Professor Michael Salman, that you please have a compliance inspection performed at the West Pico Drill Site before the ZA Review of that site goes to hearing in July.

Proceeding with the Zoning hearing without an inspection would be unfair, unsafe, and would also undermine the protections of the California Environmental Quality Act (CEQA).

Our safety depends upon an immediate and comprehensive inspection being conducted by the Petroleum Administrator, and before the Review of Compliance is brought to a public hearing.

Thank you for your consideration,

Elazar Muskin, Senior Rabbi
Young Israel of Century City

--
Thank you,
Elazar Muskin

Young Israel of Century City
9317 W. Pico Blvd.
Los Angeles, CA 90035

Dylan Sittig <dylan.sittig@lacity.org>

Fwd: ZA-1989-17683-PA2: Review of West Pico Drill Site, CEQA, & need for a Comprehensive Compliance Inspection

Edber Macedo <edber.macedo@lacity.org> Wed, Jun 3, 2020 at 9:36 AM
To: Dylan Sittig <dylan.sittig@lacity.org>

Hey Dylan,

Estineh has received some public correspondence on this case.

Please feel free to review and/or add to the case file. Thank you. Let me know if you have questions.

---------- Forwarded message ---------
From: **Krystal Návar** <krystalnavar@soronc.org>
Date: Tue, Jun 2, 2020 at 10:54 AM
Subject: Re: ZA-1989-17683-PA2: Review of West Pico Drill Site, CEQA, & need for a Comprehensive Compliance Inspection
To: Estineh Mailian <estineh.mailian@lacity.org>
Cc: Edber Macedo <edber.macedo@lacity.org>, Michael Salman <salman@history.ucla.edu>, Rae Drazin <rae@md-advocate.net>, Richard Weiner <rswatty@ca.rr.com>, Rabbi Yonah Bookstein <rabbiyonah@gmail.com>, Paul Koretz <paul.koretz@lacity.org>, Joan Pelico <joan.pelico@lacity.org>, Andy Shrader <andy.shrader@lacity.org>, Martin Epstein <martinepstein@soronc.org>

Hi Estineh,

I hope you and your family are well. I wanted to reach out as a concerned resident of the South Robertson area, expressing my personal views, which are not necessarily reflected by the rest of the SORO NC Land Use Committee or General Board.

I urge you to ensure a Comprehensive Compliance Inspection report is produced prior to the Public Hearing for the West Pico Drill Site. I see no reason why the Public Hearing should not wait to be held until after the Petroleum Administrator can inspect the site. Just as a construction project is not permitted to proceed to the next phase of construction without an inspection to review the project's conformance to codes, this Public Hearing should not be permitted to be held without, first, an inspection to review compliance and site conditions.

Thank you for considering my request.

Best,

Krystal Návar
South Robertson Neighborhoods Council

Chair | Land Use Committee

213.840.9498 | krystalnavar@soronc.org

PO Box 35836 | Los Angeles, CA 90035
soronc.org | Email updates | Facebook | Twitter

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<ZA-1989-17683-PA2 -- Michael Salman letter to Chief ZA on inpection & CEQA 5-25-20.pdf><West Pico Well 58 03726615_2019-04-17_DATA - drilled 2005-06.pdf><West Pico Well 59 03727133_2018-12-07_DATA - drilled 2010.pdf><Chronology of Zoning Cases - highlighted.pdf><Trust Overview_ Properties _ Pacific Coast Oil Trust Investor Center - 12 new wells since 2003 - highlighted.pdf>

--

Edber Macedo
City Planning Associate
Los Angeles City Planning
200 N. Spring Street, Room 763
Los Angeles, CA. 90012
Planning4LA.org
T: (213) 978-1198

Dylan Sittig <dylan.sittig@lacity.org>

2nd of 2 Fwd: LAFD operating permits for ZA-1989-17683-PA2

Michael Salman <salman@history.ucla.edu> Thu, Apr 22, 2021 at 8:48 AM
To: Theodore Irving <theodore.irving@lacity.org>
Cc: Dylan Sittig <dylan.sittig@lacity.org>, Estineh Mailian <estineh.mailian@lacity.org>, Edber Macedo <edber.macedo@lacity.org>, Terry Kaufmann-Macias <terry.kaufmann-macias@lacity.org>, Jennifer Tobkin <jennifer.tobkin@lacity.org>, Erica Blyther <erica.blyther@lacity.org>

2nd of 2

-------- Forwarded Message --------
Subject: LAFD operating permits for ZA-1989-17683-PA2
Date: Thu, 22 Apr 2021 08:18:12 -0700
From: Michael Salman <salman@history.ucla.edu>
To: Theodore Irving <theodore.irving@lacity.org>
CC: Dylan Sittig <dylan.sittig@lacity.org>, Estineh Mailian <estineh.mailian@lacity.org>, Edber Macedo <edber.macedo@lacity.org>, Terry Kaufmann-Macias <terry.kaufmann-macias@lacity.org>, Jennifer Tobkin <jennifer.tobkin@lacity.org>, Erica Blyther <erica.blyther@lacity.org>

Dear Mr Irving

Please find attached a set of LAFD Annual Oil Well Operating Permits for the West Pico Drill Site, discussed in my submission for ZA-1989-17683-PA2 sent to you by email today.

These permits are organized by oil well, with each file named for the common name of the well (e.g., WP 59, WP 58, etc). The permits span from 2005 to 2020 and were obtained from the City Office of Finance by CPRA request.

A spreadsheet prepared by the City Office of Finance listing all of the permits is also included.

Given that at least 22 of these permits have been illegal, invalid, and void for years, and given that there is a strong argument that all Annual Operating Permits have been void since the effective date of the 2000 ZA approval, it is essential that these records be considered in this review.

It is troubling that these records were not included heretofore, but it is not surprising because the City does not do inspections or even cross-check its own records. That is how and why such illegal permits get issued in the first place:

- the ZA did not check (or understand) what was on the site or in prior records during the 2000 case,
- the LAFD does not check for ZA approvals when all well drilling and conversions require ZA approvals per LAMC 13.01.I and the Fire Code requires compliance with "with all regulations, laws, or ordinances,"
- and then the ZA does not check the validity of City permits issued on wells that did not have ZA approval.

It is a circle of negligence contrary to City law (and State law because it violates CEQA), contrary to public policy, and contrary to public interest.

Sorry this must be put in such pointed language, but it is necessary.

Yours

Michael Salman

23 attachments

WP 12 0000801123-0001-9_Fire_Permits.pdf
550K

WP 11 0000801122-0001-4_Fire_Permits.pdf
551K

WP 10 0000801121-0001-0_Fire_Permits.pdf
550K

WP 9 0000801120-0001-5_Fire_Permits.pdf
490K

WP 8 0000801119-0001-2_Fire_Permits.pdf
551K

WP 7 0000801118-0001-8_Fire_Permits.pdf
551K

WP 6 0000776851-0001-3_Fire_Permits.pdf
551K

WP 5 0000776853-0001-2_Fire_Permits.pdf
541K

WP 4 0000776852-0001-8_Fire_Permits.pdf
553K

WP 3 00007756847-0001-7_Fire_Permits.pdf
551K

WP 2 0000776848-0001-1_Fire_Permits.pdf
550K

WP 1 0000776848-0001-6_Fire_Permits.pdf
550K

TW 1 0000960248-0001-3_Fire_Permits.pdf
478K

SW 7 0000238378-0001-3_Fire_Permits.pdf
553K

RW 2 0000954417-0001-7_Fire_Permits.pdf
564K

PW 9 0000238376-0001-4_Fire_Permits.pdf
467K

OW 8 0000238377-0001-9_Fire_Permits.pdf
510K

NW 4 0000966889-0001-5_Fire_Permits.pdf
563K

LW 11 0000173761-0001-4.pdf
484K

KW 5 0000954586-0001-6_Fire_Permits.pdf
564K

JW 3 0000958551-0001-1_Fire_Permits.pdf
563K

IW 6 0000978366-0001-4.pdf
565K

HW 10 0000176760-0001-0.pdf
484K

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2201

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173760-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

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12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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CITY OF LOS ANGELES **ISSUED:** 12/07/2006

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12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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CITY OF LOS ANGELES **ISSUED:** 01/15/2008

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12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

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12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
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12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
HW-10

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173760-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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PACIFIC COAST ENERGY COMPANY LP
HW-10

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173760-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2013

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0000173760-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/19/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173760-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

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0000173760-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
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12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
HW-10
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173760-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Robert M. Tenorio
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173760-0001-0	F358	Oil Well Operation / Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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CITY OF LOS ANGELES **ISSUED:** 12/11/2017

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173760-0001-0	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173760-0001-0	F358	Oil Well Operation / Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Robert M. Tenorio
FIRE CHIEF

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173760-0001-0	F358	Oil Well Operation / Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978366-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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ISSUED TO

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

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P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #IW-6

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #IW-6

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LOS ANGELES, CA 90071-2241

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #IW-6

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978366-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Office of Finance
P.O. Box 53200
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BREITBURN ENERGY COMPANY LLC
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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978366-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #IW-6
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/17/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978366-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978366-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978366-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

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FIRE CHIEF

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978366-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

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0000978366-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2013

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LOS ANGELES, CA 90071-2241

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/12/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978366-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #IW-6

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978366-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978366-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
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LOS ANGELES, CA 90071-2241

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978366-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
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12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
P.O. Box 53200
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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #IW-6
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978366-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978366-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978366-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #IW-6
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #IW-6
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978366-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

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COPY

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978366-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

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COPY

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978366-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000097836600014

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958551-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #J W-3

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958551-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958551-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #J W-3
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terazas
FIRE CHIEF

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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #J W-3

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958551-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #J W-3
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958551-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/17/2009

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LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
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FIRE PERMIT

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12/31/2010

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

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0000958551-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

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12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #J W-3

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958551-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #J W-3
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/12/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958551-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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WEST PICO WELL #J W-3
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2013

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0000958551-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/19/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958551-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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WEST PICO WELL #J W-3
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

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0000958551-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #J W-3
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958551-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958551-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

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0000958551-0001-1	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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WEST PICO WELL #J W-3
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958551-0001-1	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #J W-3
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958551-0001-1	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958551-0001-1	F358	Oil Well Operation / Maintenance	03/31/1998

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WEST PICO WELL #J W-3
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Robb M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000095855100011

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

AUTHENTICATION: 9248108

111321572

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954586-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954586-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #KW-5
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #KW-5

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954586-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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BREITBURN ENERGY COMPANY LLC
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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

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Office of Finance
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954586-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954586-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ISSUED TO
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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/17/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954586-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954586-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954586-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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WEST PICO WELL #KW-5

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954586-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #KW-5
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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P.O. Box 53200
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954586-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #KW-5

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/12/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954586-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #KW-5
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/09/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954586-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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WEST PICO WELL #KW-5
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/19/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954586-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #KW-5
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954586-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #KW-5
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954586-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #KW-5
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #KW-5
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954586-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
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WEST PICO WELL #KW-5
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Los Angeles CA 90053-0200

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954586-0001-6	F358	Oil Well Operation / Maintenance	03/31/1998

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COPY

ISSUED TO
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WEST PICO WELL #KW-5
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954586-0001-6	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954586-0001-6	F358	Oil Well Operation / Maintenance	03/31/1998

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WEST PICO WELL #KW-5
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954586-0001-6	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000095458600016

Legal Name: PACIFIC COAST ENERGY COMPANY LP

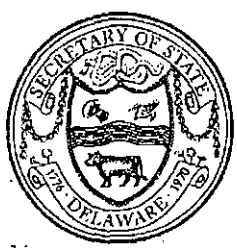
Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.



Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173761-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
LW-11

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173761-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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LW-11

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173761-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173761-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

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LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173761-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
LW-11
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
LW-11

515 S FLOWER STREET #4800
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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173761-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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CITY OF LOS ANGELES
Office of Finance
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Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
LW-11

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173761-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/09/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173761-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/19/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173761-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

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0000173761-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terazas
FIRE CHIEF

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P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
LW-11
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173761-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LW-11
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173761-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Office of Finance
P.O. Box 53200
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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173761-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

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LW-11
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173761-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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LW-11
ATTN: JOHN FOX
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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173761-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173761-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000966889-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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ISSUED TO

BREITBURN ENERGY COMPANY LLC

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #NW-4

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LOS ANGELES, CA 90071-2241

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

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COPY

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WEST PICO WELL #NW-4
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000966889-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #NW-4
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

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Office of Finance
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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #NW-4

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000966889-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Office of Finance
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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #NW-4

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000966889-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #NW-4
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/17/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000966889-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000966889-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000966889-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000966889-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2012

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LOS ANGELES, CA 90071-2241

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000966889-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2013

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #NW-4

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000966889-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #NW-4
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #NW-4

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000966889-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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WEST PICO WELL #NW-4
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/19/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000966889-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000966889-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #NW-4
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000966889-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #NW-4
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000966889-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #NW-4
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000966889-0001-5	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
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WEST PICO WELL #NW-4
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000966889-0001-5	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #NW-4
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Los Angeles CA 90053-0200

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WEST PICO WELL #NW-4
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000966889-0001-5	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ISSUED TO
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WEST PICO WELL #NW-4
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000966889-0001-5	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ISSUED TO
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WEST PICO WELL #NW-4
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000096688900015

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238377-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
OW-8

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238377-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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BREITBURN ENERGY COMPANY LLC
OW-8

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238377-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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OW-8
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
OW-8

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238377-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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OW-8
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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BREITBURN ENERGY COMPANY LLC
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238377-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
P.O. Box 53200
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BREITBURN ENERGY COMPANY LLC
OW-8

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238377-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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OW-8
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238377-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terazas
FIRE CHIEF

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OW-8

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238377-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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OW-8
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

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0000238377-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
Office of Finance
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Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
OW-8

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/12/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238377-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238377-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238377-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

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0000238377-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238377-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238377-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238377-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238377-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238377-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238377-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

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ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238376-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

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WELL PW-9

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

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0000238376-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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BREITBURN ENERGY COMPANY LLC
WELL PW-9

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238376-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238376-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WELL PW-9

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238376-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238376-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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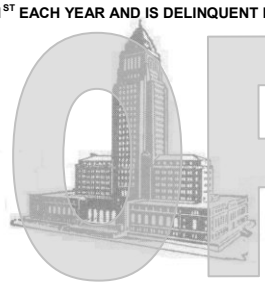

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LOS ANGELES, CA 90035-1347
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12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238376-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238376-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238376-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2013

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/12/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238376-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/10/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238376-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238376-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238376-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2016

BY: Ralph M. Terrazas
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Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WELL PW-9
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238376-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238376-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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ORCUTT, CA 93455-6016

12/31/2017

BY: Robert M. Tenorio

FIRE CHIEF

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ORCUTT, CA 93455-6016

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238376-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Robert M. Tenorio
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238376-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238376-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WELL PW-9
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WELL PW-9
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238376-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WELL PW-9
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

COPY

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000023837600014

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954417-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #RW-2

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954417-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #RW-2
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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WEST PICO WELL #RW-2

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954417-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #RW-2
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terazas
FIRE CHIEF

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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #RW-2

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954417-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #RW-2
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #RW-2

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954417-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #RW-2
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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WEST PICO WELL #RW-2

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/17/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954417-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #RW-2
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

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0000954417-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2010

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

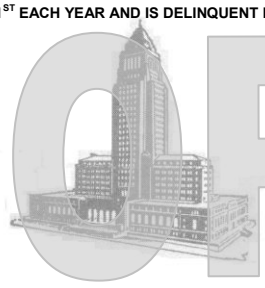
FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954417-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY



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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #RW-2
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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P.O. Box 53200
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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954417-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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WEST PICO WELL #RW-2
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954417-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #RW-2
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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PACIFIC COAST ENERGY COMPANY LP
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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/12/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954417-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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WEST PICO WELL #RW-2
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #RW-2

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954417-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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WEST PICO WELL #RW-2
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #RW-2

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/19/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954417-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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WEST PICO WELL #RW-2
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #RW-2

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954417-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #RW-2
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #RW-2
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954417-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #RW-2
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954417-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #RW-2
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954417-0001-7	F358	Oil Well Operation / Maintenance	03/31/1998

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WEST PICO WELL #RW-2
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954417-0001-7	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #RW-2
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954417-0001-7	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #RW-2
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
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Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #RW-2
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000954417-0001-7	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #RW-2
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000095441700017

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238378-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #SW-7

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

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LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238378-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #SW-7
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

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Office of Finance
P.O. Box 53200
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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #SW-7

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238378-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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WEST PICO WELL #SW-7
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

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0000238378-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
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12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238378-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

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0000238378-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2012

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

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12/31/2013

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/12/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238378-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2013

BY: Ralph M. Terrazas
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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #SW-7

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2013

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0000238378-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90071-2241

12/31/2014

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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238378-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238378-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #SW-7
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238378-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

ISSUED TO
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WEST PICO WELL #SW-7
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #SW-7
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238378-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

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0000238378-0001-3	F358	Oil Well Operation / Maintenance	03/31/1998

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ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
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ATTN: JOHN FOX
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ORCUTT, CA 93455-6016

9151 W PICO BLVD
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
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ATTN: JOHN FOX
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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #SW-7
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238378-0001-3	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #SW-7
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238378-0001-3	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ATTN: JOHN FOX
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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000023837800013

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

AUTHENTICATION: 9248108

111321572

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960248-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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WELL T W-1

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960248-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960248-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960248-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960248-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/17/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960248-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2009

BY: Ralph M. Terrazas
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

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12/31/2010

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960248-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960248-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

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0000960248-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960248-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WELL T W-1

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960248-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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PACIFIC COAST ENERGY COMPANY LP
WELL T W-1

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960248-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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WELL T W-1

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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WELL T W-1

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960248-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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WELL T W-1
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WELL T W-1
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960248-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WELL T W-1
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960248-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960248-0001-3	F358	Oil Well Operation / Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960248-0001-3	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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PACIFIC COAST ENERGY COMPANY LP
WELL T W-1
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960248-0001-3	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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PACIFIC COAST ENERGY COMPANY LP
WELL T W-1
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WELL T W-1
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960248-0001-3	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WELL T W-1
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000096024800013

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776849-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

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Office of Finance
P.O. Box 53200
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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #1

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776849-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #1
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #1

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776849-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #1
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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WEST PICO WELL #1

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776849-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #1
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776849-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776849-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2012

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

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12/31/2013

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/11/2013

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0000776849-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #1

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776849-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #1

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/19/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776849-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #1
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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PACIFIC COAST ENERGY COMPANY LP
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776849-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #1
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776849-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

ISSUED TO
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WEST PICO WELL #1
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
P.O. Box 53200
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WEST PICO WELL #1
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776849-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776849-0001-6	F358	Oil Well Operation / Maintenance	03/31/1998

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
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ATTN: JOHN FOX
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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776849-0001-6	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #1
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776849-0001-6	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
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WEST PICO WELL #1
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Office of Finance
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Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #1
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776849-0001-6	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #1
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Miscellaneous Correspondence Cover Sheet

Account Number: 000077684900016

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "*Partnership*") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776848-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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WEST PICO WELL #2

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776848-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #2
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776848-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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WEST PICO WELL #2

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776848-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #2
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776848-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #2
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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WEST PICO WELL #2

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776848-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #2
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776848-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #2

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776848-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #2
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776848-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776848-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776848-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #2

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776848-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #2
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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Los Angeles CA 90053-0200

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WEST PICO WELL #2

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776848-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #2
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #2
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776848-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #2
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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WEST PICO WELL #2
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776848-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #2
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776848-0001-1	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776848-0001-1	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #2
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776848-0001-1	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776848-0001-1	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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WEST PICO WELL #2
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000077684800011

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776847-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #3

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

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WEST PICO WELL #3
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776847-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776847-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #3
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #3

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776847-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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WEST PICO WELL #3
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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WEST PICO WELL #3

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776847-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #3
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #3

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776847-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #3
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

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12/31/2013

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WEST PICO WELL #3

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776847-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #3
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #3

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/10/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776847-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #3
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #3

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776847-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #3
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #3

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

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0000776847-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #3
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #3
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776847-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

ISSUED TO
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WEST PICO WELL #3
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #3
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776847-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776847-0001-7	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
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LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776847-0001-7	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

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12/31/2020

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #3
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776847-0001-7	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #3
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

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Miscellaneous Correspondence Cover Sheet

Account Number: 000077684700017

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776852-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #4

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776852-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #4
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #4

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776852-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #4
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #4

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776852-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ISSUED TO
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WEST PICO WELL #4

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776852-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #4
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #4

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776852-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #4
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #4

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776852-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #4
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #4

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776852-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #4
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #4

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776852-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

ISSUED TO
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WEST PICO WELL #4
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #4

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776852-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
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WEST PICO WELL #4
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

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CITY OF LOS ANGELES
Office of Finance
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Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #4

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/10/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776852-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #4
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Office of Finance
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/19/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776852-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #4

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776852-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #4
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #4
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776852-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #4
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776852-0001-8	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776852-0001-8	F358	Oil Well Operation / Maintenance	03/31/1998

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WEST PICO WELL #4
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776852-0001-8	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776852-0001-8	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776852-0001-8	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000077685200018

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776853-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #5

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776853-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776853-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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BREITBURN ENERGY COMPANY LLC
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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776853-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #5
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776853-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776853-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #5
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #5

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776853-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #5
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #5

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776853-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 04/10/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776853-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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12/31/2013

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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776853-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

ISSUED TO
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WEST PICO WELL #5
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/19/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776853-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY, LP
WEST PICO WELL #5
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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PACIFIC COAST ENERGY COMPANY, LP
WEST PICO WELL #5

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776853-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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WEST PICO WELL #5
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY, LP
WEST PICO WELL #5
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776853-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY, LP
WEST PICO WELL #5
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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PACIFIC COAST ENERGY COMPANY, LP
WEST PICO WELL #5
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776853-0001-2	F358	Oil Well Operation / Maintenance	03/31/1998

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COPY

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WEST PICO WELL #5
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776853-0001-2	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776853-0001-2	F358	Oil Well Operation / Maintenance	03/31/1998

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9151 W PICO BLVD
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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776853-0001-2	F358	Oil Well Operation / Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
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ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000077685300012

Legal Name: PACIFIC COAST ENERGY COMPANY, LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776851-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #6

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776851-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #6
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776851-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #6
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776851-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #6
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776851-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #6
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776851-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776851-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #6
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776851-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #6
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776851-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #6
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
P.O. Box 53200
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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #6

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776851-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #6

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/10/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776851-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/19/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776851-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776851-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #6
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776851-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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WEST PICO WELL #6
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #6
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776851-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
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WEST PICO WELL #6
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776851-0001-3	F358	Oil Well Operation / Maintenance	03/31/1998

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COPY

ISSUED TO
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WEST PICO WELL #6
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776851-0001-3	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #6
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776851-0001-3	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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WEST PICO WELL #6
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000776851-0001-3	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000077685100013

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801118-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #7

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801118-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #7
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #7

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801118-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801118-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801118-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #7
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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BREITBURN ENERGY COMPANY LLC
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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

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12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801118-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #7
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #7

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801118-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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CITY OF LOS ANGELES
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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #7

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/07/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801118-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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WEST PICO WELL #7
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801118-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801118-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #7
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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PACIFIC COAST ENERGY COMPANY LP
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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801118-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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WEST PICO WELL #7
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #7
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801118-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
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WEST PICO WELL #7
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801118-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
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WEST PICO WELL #7
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Office of Finance
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Los Angeles CA 90053-0200

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WEST PICO WELL #7
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801118-0001-8	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #7
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801118-0001-8	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801118-0001-8	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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WEST PICO WELL #7
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801118-0001-8	F358	Oil Well Operation / Maintenance	03/31/1998

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COPY

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WEST PICO WELL #7
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000080111800018

Legal Name: PACIFIC COAST ENERGY COMPANY LP

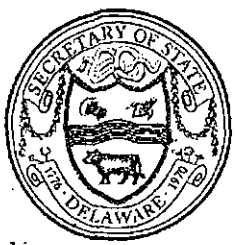
Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.



Jeffrey W. Bullock, Secretary of State

3816394 8100

AUTHENTICATION: 9248108

111321572

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801119-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

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IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #8

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801119-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #8
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Office of Finance
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WEST PICO WELL #8

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801119-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #8
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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P.O. Box 53200
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WEST PICO WELL #8

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801119-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801119-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

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0000801119-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90071-2241

12/31/2010

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801119-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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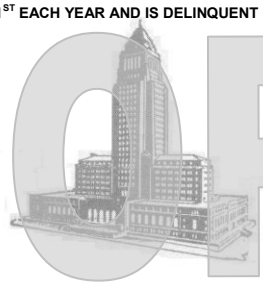

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801119-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801119-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90071-2241

12/31/2013

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #8

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801119-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801119-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2014

BY: Ralph M. Terrazas
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801119-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801119-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #8
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801119-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801119-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #8
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #8
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801119-0001-2	F358	Oil Well Operation / Maintenance	03/31/1998

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ISSUED TO
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WEST PICO WELL #8
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801119-0001-2	F358	Oil Well Operation / Maintenance	03/31/1998

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WEST PICO WELL #8
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801119-0001-2	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801119-0001-2	F358	Oil Well Operation / Maintenance	03/31/1998

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WEST PICO WELL #8
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000080111900012

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801120-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #9

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

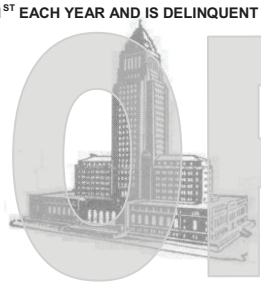
FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801120-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY



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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #9
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Robert M. Tenorio
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #9

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801120-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #9

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Robert M. Tenorio

FIRE CHIEF

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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #9

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

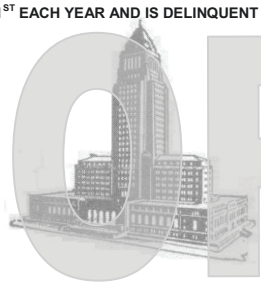
FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801120-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY



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WEST PICO WELL #9
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Robert M. Tenorio
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801120-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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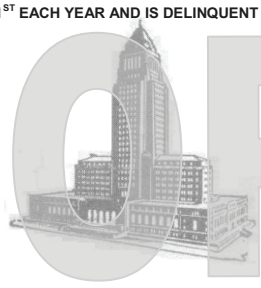

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WEST PICO WELL #9
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Robert M. Tenorio
FIRE CHIEF

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FIRE PERMIT

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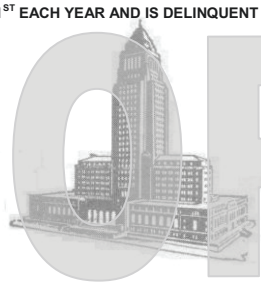

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12/31/2010

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

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12/31/2011

BY: Robert M. Tenorio
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POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #9

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

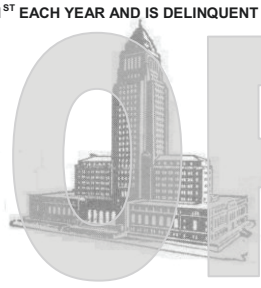
FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801120-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY



ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #9
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Robb M. Terazaki

FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

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CITY OF LOS ANGELES
Office of Finance
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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #9

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801120-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #9
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Robert M. Tenorio
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #9

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/10/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801120-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #9
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #9

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/09/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801120-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ISSUED TO
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WEST PICO WELL #9
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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PACIFIC COAST ENERGY COMPANY LP
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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801120-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #9
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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PACIFIC COAST ENERGY COMPANY LP
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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801120-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #9
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801120-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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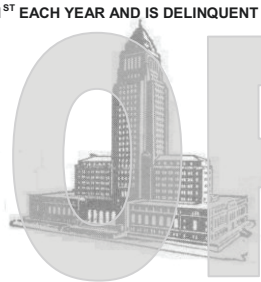

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #9
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #9
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

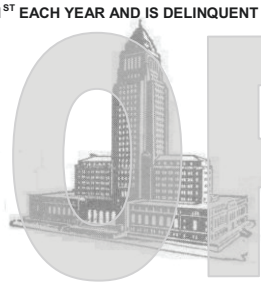
FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801120-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY



ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #9
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801120-0001-5	F358	Oil Well Operation / Maintenance	03/31/1998

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COPY

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Robb M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801120-0001-5	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #9
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Robb M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

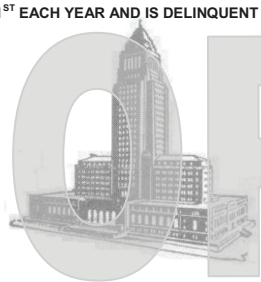
FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801120-0001-5	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY



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WEST PICO WELL #9
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Robb M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801120-0001-5	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Robert M. Tenorio

FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000080112000015

Legal Name: PACIFIC COAST ENERGY COMPANY LP

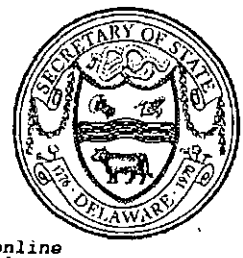
Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.



Jeffrey W. Bullock, Secretary of State

3816394 8100

AUTHENTICATION: 9248108

111321572

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801121-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
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Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #10

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801121-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801121-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801121-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801121-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801121-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2010

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FIRE CHIEF

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801121-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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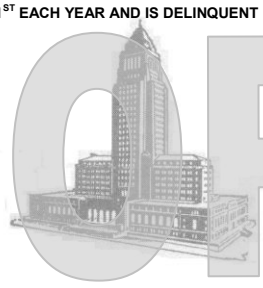

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801121-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terazas
FIRE CHIEF

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801121-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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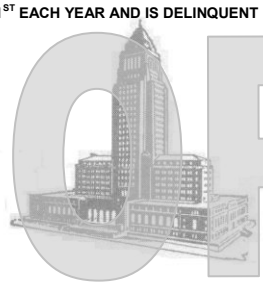

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
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12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/10/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801121-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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PACIFIC COAST ENERGY COMPANY LP
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801121-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801121-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801121-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #10
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #10
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801121-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

ISSUED TO
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WEST PICO WELL #10
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Robb M. Terazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

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WEST PICO WELL #10
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801121-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #10
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801121-0001-0	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801121-0001-0	F358	Oil Well Operation / Maintenance	03/31/1998

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WEST PICO WELL #10
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801121-0001-0	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
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WEST PICO WELL #10
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801121-0001-0	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #10
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

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Miscellaneous Correspondence Cover Sheet

Account Number: 000080112100010

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801122-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #11

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

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0000801122-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #11

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

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0000801122-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #11
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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BREITBURN ENERGY COMPANY LLC
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801122-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

ISSUED TO
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WEST PICO WELL #11
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

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LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #11

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801122-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #11
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

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CITY OF LOS ANGELES
Office of Finance
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Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801122-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801122-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2013

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LOS ANGELES, CA 90071-2241

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/10/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801122-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #11
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2013

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0000801122-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

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0000801122-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

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0000801122-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #11
ATTN:JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801122-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #11
ATTN:JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #11
ATTN:JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801122-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #11
ATTN:JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801122-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN:JOHN FOX
9151 W PICO BLVD
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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801122-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801122-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BLVD
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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801122-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

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ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000080112200014

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

AUTHENTICATION: 9248108

111321572

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #12

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #12
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #12
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #12
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #12
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #12
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #12
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
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12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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PACIFIC COAST ENERGY COMPANY LP
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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/10/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #12

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/09/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
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12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

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LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #12
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #12
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #12
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #12
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #12
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #12
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #12
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #12
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Office of Finance
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Los Angeles CA 90053-0200

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WEST PICO WELL #12
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #12
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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Miscellaneous Correspondence Cover Sheet

Account Number: 000080112300019

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

AUTHENTICATION: 9248108

111321572

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

Dylan Sittig <dylan.sittig@lacity.org>

1st of 2 Fwd: LAFD operating permits for ZA-1989-17683-PA2

Michael Salman <salman@history.ucla.edu> Thu, Apr 22, 2021 at 8:45 AM
To: Theodore Irving <theodore.irving@lacity.org>
Cc: Dylan Sittig <dylan.sittig@lacity.org>, Estineh Mailian <estineh.mailian@lacity.org>, Edber Macedo <edber.macedo@lacity.org>, Terry Kaufmann-Macias <terry.kaufmann-macias@lacity.org>, Jennifer Tobkin <jennifer.tobkin@lacity.org>, Erica Blyther <erica.blyther@lacity.org>

This email bounced back to me because the data size of attachments was too large. Hence I am resending in two emails. This is the 1st of 2.

Michael Salman

-------- Forwarded Message --------
Subject:LAFD operating permits for ZA-1989-17683-PA2
Date: Thu, 22 Apr 2021 08:18:12 -0700
From: Michael Salman <salman@history.ucla.edu>
To: Theodore Irving <theodore.irving@lacity.org>
CC: Dylan Sittig <dylan.sittig@lacity.org>, Estineh Mailian <estineh.mailian@lacity.org>, Edber Macedo <edber.macedo@lacity.org>, Terry Kaufmann-Macias <terry.kaufmann-macias@lacity.org>, Jennifer Tobkin <jennifer.tobkin@lacity.org>, Erica Blyther <erica.blyther@lacity.org>

Dear Mr Irving

Please find attached a set of LAFD Annual Oil Well Operating Permits for the West Pico Drill Site, discussed in my submission for ZA-1989-17683-PA2 sent to you by email today.

These permits are organized by oil well, with each file named for the common name of the well (e.g., WP 59, WP 58, etc). The permits span from 2005 to 2020 and were obtained from the City Office of Finance by CPRA request.

A spreadsheet prepared by the City Office of Finance listing all of the permits is also included.

Given that at least 22 of these permits have been illegal, invalid, and void for years, and given that there is a strong argument that all Annual Operating Permits have been void since the effective date of the 2000 ZA approval, it is essential that these records be considered in this review.

It is troubling that these records were not included heretofore, but it is not surprising because the City does not do inspections or even cross-check its own records. That is how and why such illegal permits get issued in the first place:

- the ZA did not check (or understand) what was on the site or in prior records during the 2000 case,
- the LAFD does not check for ZA approvals when all well drilling and conversions require ZA approvals per LAMC 13.01.I and the Fire Code requires compliance with "with all regulations, laws, or ordinances,"
- and then the ZA does not check the validity of City permits issued on wells that did not have ZA approval.

It is a circle of negligence contrary to City law (and State law because it violates CEQA), contrary to public policy, and contrary to public interest.

Sorry this must be put in such pointed language, but it is necessary.

Yours

Michael Salman

36 attachments

list of LAFD operating permits 2005-2020.xlsx
55K

WP 59 0002468119-0002-7.pdf
385K

WP 58 0002468119-0001-9.pdf
603K

WP 45 0000173762-0001-9_fire_Permits.pdf
511K

WP 44 0000159635-0001-4.pdf
541K

WP 43 0000266508-0001-9_Fire_Permits.pdf
551K

WP 42 0000266507-0001-4_Fire_Permits.pdf
551K

wp 41 0000238375-0001-0_fire_Permits.pdf
552K

WP 40 0000238382-0001-0_Fire_Permits.pdf
564K

WP 39 0000238381-0001-5_fire_Permits.pdf
467K

WP 38 0000238380-0001-1.pdf
553K

WP 37 0000238379-0001-8_Fire_Permits.pdf
522K

WP 36 0000978367-0001-9_Fire_Permits.pdf
563K

WP 35 0000958552-0001-6_Fire_Permits.pdf
562K

WP 34 0000958600-0001-7_Fire_Permits.pdf
562K

WP 33 0000960247-0001-9_fire_Permits.pdf
562K

WP 32 0000960249-0001-8_Fire_Permits.pdf
562K

WP 31 0000960250-0001-1_Fire_Permits.pdf
689K

WP 30 0000960253-0001-4_Fire_Permits.pdf
562K

WP 29 0000960246-0001-4_fire_Permits.pdf
563K

WP 28 0000960251-0001-5_Fire_Permits.pdf
562K

WP 27 0000856461-0001-7_Fire_Permits.pdf
563K

WP 26 0000856429-0001-9_Fire_Permits.pdf
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WP 25 0000856428-0001-4_Fire_Permits.pdf
563K

WP 24 0000856427-0001-0_Fire_Permits.pdf
563K

WP 22 0000856425-0001-1_Fire_Permits.pdf
563K

WP 21 0000801758-0001-1_Fire_Permits.pdf
562K

WP 20 0000856424-0001-6_Fire_Permits.pdf

542K

WP 19 0000793012-0001-9_fire_Permits.pdf
550K

WP 18 0000801756-0001-2_Fire_Permits.pdf
552K

WP 17 0000793014-0001-8_Fire_Permit (1).pdf
491K

WP 16 0000801127-0001-7_Fire_Permits.pdf
553K

WP 15 0000801126-0001-2_Fire_Permits.pdf
552K

WP 14 0000801125-0001-8_Fire_Permits.pdf
552K

WP 13 0000801124-0001-3_Fire_Permits.pdf
551K

WP 12 0000801123-0001-9_Fire_Permits.pdf
550K

LOC_ACCT_NUM	BUSINESS_NAME	LOCATION_DESC	FUND_CLASS	DESCRIPTION	PERMIT_TYPE	TAX_PERIOD	PERMIT_STATUS	PERMIT_START_DATE	PERMIT_END_DATE
0000159635-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000159635-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000159635-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000159635-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000159635-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000159635-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000159635-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000159635-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000159635-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000159635-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/10/2013	12/31/2014
0000159635-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000159635-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000159635-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000159635-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000159635-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000159635-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000159635-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000173760-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000173760-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000173760-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000173760-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000173760-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000173760-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000173760-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000173760-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000173760-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000173760-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000173760-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/20/2014	12/31/2015
0000173760-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000173760-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/16/2016	12/31/2017
0000173760-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000173760-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000173760-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000173760-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000173761-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000173761-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000173761-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000173761-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000173761-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000173761-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000173761-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000173761-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000173761-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000173761-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/10/2013	12/31/2014
0000173761-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/20/2014	12/31/2015
0000173761-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000173761-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000173761-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000173761-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000173761-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000173761-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000173762-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000173762-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000173762-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000173762-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000173762-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000173762-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000173762-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000173762-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000173762-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000173762-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000173762-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000173762-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000173762-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000173762-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000173762-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000173762-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000173762-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000238375-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000238375-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000238375-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000238375-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000238375-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000238375-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000238375-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000238375-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000238375-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000238375-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000238375-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/20/2014	12/31/2015
0000238375-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000238375-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000238375-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000238375-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000238375-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000238375-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000238376-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000238376-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000238376-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000238376-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000238376-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000238376-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000238376-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000238376-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000238376-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000238376-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/11/2013	12/31/2014
0000238376-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000238376-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000238376-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000238376-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000238376-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019

0000238376-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000238376-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000238377-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000238377-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000238377-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000238377-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000238377-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000238377-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000238377-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000238377-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000238377-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000238377-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000238377-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000238377-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000238377-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000238377-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000238377-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000238377-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000238377-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000238378-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000238378-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000238378-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000238378-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000238378-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000238378-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000238378-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000238378-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000238378-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000238378-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000238378-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000238378-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000238378-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000238378-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000238378-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000238378-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000238378-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000238379-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000238379-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000238379-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000238379-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000238379-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000238379-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000238379-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000238379-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	8/23/2012	12/31/2012
0000238379-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000238379-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000238379-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000238379-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000238379-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000238379-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000238379-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000238379-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000238379-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000238380-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000238380-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000238380-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000238380-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000238380-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000238380-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000238380-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000238380-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000238380-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000238380-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000238380-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000238380-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000238380-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/16/2016	12/31/2017
0000238380-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000238380-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000238380-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000238380-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000238381-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000238381-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000238381-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000238381-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000238381-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000238381-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000238381-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000238381-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000238381-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000238381-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/10/2013	12/31/2014
0000238381-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000238381-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000238381-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000238381-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000238381-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000238381-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000238381-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000238382-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000238382-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000238382-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000238382-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000238382-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000238382-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000238382-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000238382-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000238382-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000238382-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000238382-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000238382-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000238382-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000238382-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018

0000238382-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000238382-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000238382-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000266507-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000266507-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000266507-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000266507-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000266507-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000266507-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000266507-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000266507-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000266507-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000266507-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/10/2013	12/31/2014
0000266507-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000266507-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000266507-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000266507-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000266507-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000266507-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000266507-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000266508-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000266508-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000266508-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000266508-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000266508-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000266508-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000266508-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000266508-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000266508-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000266508-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	11/13/2013	12/31/2014
0000266508-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000266508-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000266508-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000266508-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000266508-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000266508-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000266508-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000776847-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000776847-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000776847-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000776847-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000776847-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000776847-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000776847-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000776847-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000776847-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000776847-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/11/2013	12/31/2014
0000776847-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000776847-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000776847-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000776847-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000776847-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000776847-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000776847-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000776848-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000776848-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000776848-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000776848-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000776848-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000776848-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000776848-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000776848-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000776848-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000776848-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000776848-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000776848-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000776848-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000776848-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000776848-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000776848-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000776848-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000776849-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000776849-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000776849-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000776849-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000776849-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000776849-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000776849-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000776849-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000776849-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000776849-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000776849-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/20/2014	12/31/2015
0000776849-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000776849-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000776849-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000776849-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000776849-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000776849-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000776851-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000776851-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000776851-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000776851-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000776851-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000776851-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000776851-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000776851-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000776851-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000776851-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/11/2013	12/31/2014
0000776851-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/20/2014	12/31/2015
0000776851-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000776851-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017

0000776851-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000776851-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000776851-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000776851-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000776852-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000776852-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000776852-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000776852-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000776852-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000776852-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000776852-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000776852-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000776852-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000776852-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/11/2013	12/31/2014
0000776852-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/20/2014	12/31/2015
0000776852-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000776852-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/16/2016	12/31/2017
0000776852-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000776852-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000776852-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000776852-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000776853-0001-2	PACIFIC COAST ENERGY COMPANY, LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000776853-0001-2	PACIFIC COAST ENERGY COMPANY, LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000776853-0001-2	PACIFIC COAST ENERGY COMPANY, LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000776853-0001-2	PACIFIC COAST ENERGY COMPANY, LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000776853-0001-2	PACIFIC COAST ENERGY COMPANY, LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000776853-0001-2	PACIFIC COAST ENERGY COMPANY, LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000776853-0001-2	PACIFIC COAST ENERGY COMPANY, LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000776853-0001-2	PACIFIC COAST ENERGY COMPANY, LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000776853-0001-2	PACIFIC COAST ENERGY COMPANY, LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	4/11/2013	12/31/2013
0000776853-0001-2	PACIFIC COAST ENERGY COMPANY, LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000776853-0001-2	PACIFIC COAST ENERGY COMPANY, LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/20/2014	12/31/2015
0000776853-0001-2	PACIFIC COAST ENERGY COMPANY, LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000776853-0001-2	PACIFIC COAST ENERGY COMPANY, LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000776853-0001-2	PACIFIC COAST ENERGY COMPANY, LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000776853-0001-2	PACIFIC COAST ENERGY COMPANY, LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000776853-0001-2	PACIFIC COAST ENERGY COMPANY, LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000776853-0001-2	PACIFIC COAST ENERGY COMPANY, LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000793012-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000793012-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000793012-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000793012-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000793012-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000793012-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000793012-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000793012-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000793012-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000793012-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000793012-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000793012-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000793012-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000793012-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000793012-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000793012-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000793012-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000793014-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000793014-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000793014-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000793014-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000793014-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000793014-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000793014-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000793014-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000793014-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000793014-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000793014-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000793014-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000793014-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000793014-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000793014-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000793014-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000793014-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000801118-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000801118-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000801118-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000801118-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000801118-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000801118-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000801118-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000801118-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000801118-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000801118-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000801118-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000801118-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000801118-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000801118-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000801118-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000801118-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000801118-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000801119-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000801119-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000801119-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000801119-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000801119-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000801119-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000801119-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000801119-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000801119-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000801119-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000801119-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000801119-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016

0000801119-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000801119-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000801119-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000801119-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000801119-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000801120-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000801120-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000801120-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000801120-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000801120-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000801120-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000801120-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000801120-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000801120-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000801120-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/10/2013	12/31/2014
0000801120-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000801120-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000801120-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000801120-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000801120-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000801120-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000801120-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000801121-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000801121-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000801121-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000801121-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000801121-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000801121-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000801121-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000801121-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000801121-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000801121-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000801121-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000801121-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000801121-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000801121-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000801121-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000801121-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000801121-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000801122-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000801122-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000801122-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000801122-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000801122-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000801122-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000801122-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000801122-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000801122-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000801122-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000801122-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000801122-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000801122-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000801122-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000801122-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000801122-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000801122-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000801123-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000801123-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000801123-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000801123-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000801123-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000801123-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000801123-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000801123-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000801123-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000801123-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/10/2013	12/31/2014
0000801123-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000801123-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000801123-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000801123-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000801123-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000801123-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000801123-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000801124-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000801124-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000801124-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000801124-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000801124-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000801124-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000801124-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000801124-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000801124-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000801124-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/11/2013	12/31/2014
0000801124-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000801124-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000801124-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000801124-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000801124-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000801124-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000801124-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000801125-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000801125-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000801125-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000801125-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000801125-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000801125-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000801125-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000801125-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000801125-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000801125-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000801125-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/11/2014	12/31/2015

0000801125-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000801125-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000801125-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000801125-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000801125-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000801125-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000801126-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000801126-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000801126-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000801126-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000801126-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000801126-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000801126-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000801126-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000801126-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000801126-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/10/2013	12/31/2014
0000801126-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000801126-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000801126-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000801126-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000801126-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000801126-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000801126-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000801127-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000801127-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000801127-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000801127-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000801127-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000801127-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000801127-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000801127-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000801127-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000801127-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/10/2013	12/31/2014
0000801127-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000801127-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000801127-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000801127-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000801127-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000801127-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000801127-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000801756-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000801756-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000801756-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000801756-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000801756-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000801756-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000801756-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000801756-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000801756-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000801756-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000801756-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/20/2014	12/31/2015
0000801756-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000801756-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000801756-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000801756-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000801756-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000801756-0001-2	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000801758-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000801758-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000801758-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000801758-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/16/2008	12/31/2008
0000801758-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000801758-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000801758-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000801758-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000801758-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000801758-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000801758-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/20/2014	12/31/2015
0000801758-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000801758-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000801758-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000801758-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000801758-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000801758-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000856424-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000856424-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000856424-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000856424-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	1/1/2008	12/31/2008
0000856424-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000856424-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000856424-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000856424-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000856424-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	4/11/2013	12/31/2013
0000856424-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000856424-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/20/2014	12/31/2015
0000856424-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000856424-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000856424-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000856424-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000856424-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000856424-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000856425-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000856425-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000856425-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000856425-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	10/31/2008	12/31/2008
0000856425-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000856425-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000856425-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000856425-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000856425-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000856425-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/11/2013	12/31/2014

0000856425-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000856425-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000856425-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000856425-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000856425-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000856425-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000856425-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000856427-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000856427-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000856427-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000856427-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	10/31/2008	12/31/2008
0000856427-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000856427-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000856427-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000856427-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000856427-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000856427-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000856427-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000856427-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000856427-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000856427-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000856427-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000856427-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000856427-0001-0	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000856428-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000856428-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000856428-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000856428-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	10/31/2008	12/31/2008
0000856428-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000856428-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000856428-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000856428-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000856428-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000856428-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/10/2013	12/31/2014
0000856428-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/20/2014	12/31/2015
0000856428-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000856428-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000856428-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000856428-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000856428-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000856428-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000856429-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000856429-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000856429-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000856429-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	10/31/2008	12/31/2008
0000856429-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000856429-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000856429-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000856429-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000856429-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000856429-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000856429-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/11/2014	12/31/2015
0000856429-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000856429-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000856429-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000856429-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000856429-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000856429-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000856461-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000856461-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000856461-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000856461-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	10/31/2008	12/31/2008
0000856461-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000856461-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000856461-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000856461-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000856461-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000856461-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/10/2013	12/31/2014
0000856461-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/20/2014	12/31/2015
0000856461-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000856461-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000856461-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000856461-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000856461-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000856461-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000954417-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000954417-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000954417-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000954417-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	10/31/2008	12/31/2008
0000954417-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000954417-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000954417-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000954417-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000954417-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000954417-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000954417-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/20/2014	12/31/2015
0000954417-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000954417-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000954417-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000954417-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000954417-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000954417-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000954586-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000954586-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000954586-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000954586-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	10/31/2008	12/31/2008
0000954586-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000954586-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000954586-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000954586-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000954586-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013

0000954586-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/10/2013	12/31/2014
0000954586-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/20/2014	12/31/2015
0000954586-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000954586-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000954586-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000954586-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000954586-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000954586-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000958551-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000958551-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000958551-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000958551-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	10/31/2008	12/31/2008
0000958551-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000958551-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000958551-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000958551-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000958551-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000958551-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000958551-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/20/2014	12/31/2015
0000958551-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000958551-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000958551-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000958551-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000958551-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000958551-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000958552-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000958552-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000958552-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000958552-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	10/31/2008	12/31/2008
0000958552-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000958552-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000958552-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000958552-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000958552-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000958552-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/11/2013	12/31/2014
0000958552-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000958552-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000958552-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000958552-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000958552-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000958552-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000958552-0001-6	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000958600-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000958600-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000958600-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000958600-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	10/31/2008	12/31/2008
0000958600-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000958600-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000958600-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000958600-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000958600-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000958600-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/11/2013	12/31/2014
0000958600-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000958600-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000958600-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000958600-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000958600-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000958600-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000958600-0001-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000960246-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000960246-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000960246-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000960246-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	10/31/2008	12/31/2008
0000960246-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000960246-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000960246-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000960246-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000960246-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000960246-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000960246-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000960246-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000960246-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000960246-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000960246-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000960246-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000960246-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000960247-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000960247-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000960247-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000960247-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	10/31/2008	12/31/2008
0000960247-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000960247-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000960247-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000960247-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000960247-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000960247-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000960247-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/20/2014	12/31/2015
0000960247-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000960247-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000960247-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000960247-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000960247-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000960247-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000960248-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000960248-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000960248-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000960248-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	10/31/2008	12/31/2008
0000960248-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000960248-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000960248-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000960248-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012

0000960248-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000960248-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000960248-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000960248-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000960248-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000960248-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000960248-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000960248-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000960248-0001-3	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000960249-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000960249-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000960249-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000960249-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	10/31/2008	12/31/2008
0000960249-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000960249-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000960249-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000960249-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000960249-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000960249-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	11/13/2013	12/31/2014
0000960249-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000960249-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000960249-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000960249-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000960249-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000960249-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000960249-0001-8	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000960250-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000960250-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000960250-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000960250-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	10/31/2008	12/31/2008
0000960250-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000960250-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000960250-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000960250-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000960250-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000960250-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000960250-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000960250-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000960250-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000960250-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000960250-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000960250-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000960250-0001-1	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000960251-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000960251-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000960251-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000960251-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	10/31/2008	12/31/2008
0000960251-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000960251-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000960251-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000960251-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000960251-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	4/11/2013	12/31/2013
0000960251-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/10/2013	12/31/2014
0000960251-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000960251-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000960251-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000960251-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000960251-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000960251-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000960251-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000960253-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000960253-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000960253-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000960253-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	10/31/2008	12/31/2008
0000960253-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000960253-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000960253-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000960253-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000960253-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000960253-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	8/29/2014	12/31/2014
0000960253-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000960253-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000960253-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000960253-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000960253-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000960253-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000960253-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000966889-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000966889-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000966889-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000966889-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	10/31/2008	12/31/2008
0000966889-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000966889-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000966889-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000966889-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000966889-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000966889-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000966889-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/20/2014	12/31/2015
0000966889-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000966889-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000966889-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000966889-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000966889-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000966889-0001-5	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000978366-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000978366-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000978366-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000978366-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	10/31/2008	12/31/2008
0000978366-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000978366-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000978366-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011

0000978366-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000978366-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000978366-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0000978366-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0000978366-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000978366-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000978366-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000978366-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000978366-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000978366-0001-4	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0000978367-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200500A	Granted	1/5/2005	12/31/2005
0000978367-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200600A	Granted	12/7/2005	12/31/2006
0000978367-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200700A	Granted	12/8/2006	12/31/2007
0000978367-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200800A	Granted	10/31/2008	12/31/2008
0000978367-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/23/2009	12/31/2009
0000978367-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	12/16/2009	12/31/2010
0000978367-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0000978367-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0000978367-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0000978367-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/10/2013	12/31/2014
0000978367-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/20/2014	12/31/2015
0000978367-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0000978367-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0000978367-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0000978367-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0000978367-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0000978367-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0002468119-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	200900A	Granted	1/1/2009	12/31/2010
0002468119-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	1/1/2009	12/31/2010
0002468119-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	1/19/2011	12/31/2011
0002468119-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0002468119-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0002468119-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014
0002468119-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201500A	Granted	12/9/2014	12/31/2015
0002468119-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201600A	Granted	12/5/2015	12/31/2016
0002468119-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201700A	Granted	12/3/2016	12/31/2017
0002468119-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201800A	Granted	12/12/2017	12/31/2018
0002468119-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201900A	Granted	10/31/2018	12/31/2019
0002468119-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202000A	Granted	1/16/2020	12/31/2020
0002468119-0001-9	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	202100A	Granted	11/17/2020	12/31/2021
0002468119-0002-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201000A	Granted	11/1/2010	12/31/2010
0002468119-0002-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201100A	Granted	2/1/2011	12/31/2011
0002468119-0002-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201200A	Granted	1/13/2012	12/31/2012
0002468119-0002-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201300A	Granted	1/12/2013	12/31/2013
0002468119-0002-7	PACIFIC COAST ENERGY COMPANY LP	9151 PICO 90035-1347	F358	Oil Well Operation / Maintenance	Fire Permit	201400A	Granted	12/12/2013	12/31/2014

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

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IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

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Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #12

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #12
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #12
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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WEST PICO WELL #12
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #12
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #12
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #12

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #12
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #12

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/10/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #12
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #12

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/09/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
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WEST PICO WELL #12
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #12

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #12
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
Office of Finance
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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #12

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
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WEST PICO WELL #12
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #12
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #12
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #12
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #12
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #12
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801123-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #12
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000080112300019

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

AUTHENTICATION: 9248108

111321572

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801124-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #13

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801124-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #13
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801124-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801124-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801124-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #13
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #13

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801124-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801124-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801124-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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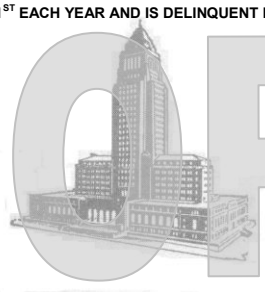

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
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12/31/2012

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

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0000801124-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2013

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PACIFIC COAST ENERGY COMPANY LP
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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801124-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #13
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
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PACIFIC COAST ENERGY COMPANY LP
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/10/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801124-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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PACIFIC COAST ENERGY COMPANY LP
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801124-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #13
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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WEST PICO WELL #13

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801124-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #13
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #13
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801124-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801124-0001-3	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801124-0001-3	F358	Oil Well Operation / Maintenance	03/31/1998

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
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ORCUTT, CA 93455-6016

9151 W PICO BLVD
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801124-0001-3	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

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12/31/2020

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #13
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801124-0001-3	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #13
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

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Miscellaneous Correspondence Cover Sheet

Account Number: 000080112400013

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801125-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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WEST PICO WELL #14A

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801125-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #14A
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801125-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801125-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #14A
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801125-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #14A
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

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0000801125-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #14A
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #14A

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801125-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #14A
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #14A

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801125-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #14A
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801125-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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PACIFIC COAST ENERGY COMPANY LP
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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/10/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801125-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #14A
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2013

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0000801125-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/10/2014

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0000801125-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #14A

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801125-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #14A
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #14A
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801125-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #14A
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
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Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #14A
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801125-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801125-0001-8	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #14A
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801125-0001-8	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #14A
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801125-0001-8	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #14A
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801125-0001-8	F358	Oil Well Operation / Maintenance	03/31/1998

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #14A
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000080112500018

Legal Name: PACIFIC COAST ENERGY COMPANY LP

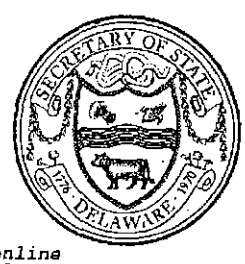
Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.



Jeffrey W. Bullock, Secretary of State

3816394 8100

AUTHENTICATION: 9248108

111321572

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801126-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #15B

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

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0000801126-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #15B
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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WEST PICO WELL #15B

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801126-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801126-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
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WEST PICO WELL #15B
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801126-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #15B

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801126-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801126-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Office of Finance
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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801126-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801126-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2013

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/10/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801126-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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LOS ANGELES, CA 90035-1347
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12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/09/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801126-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

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0000801126-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801126-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #15B
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #15B
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801126-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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WEST PICO WELL #15B
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Office of Finance
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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #15B
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801126-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
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Los Angeles CA 90053-0200

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801126-0001-2	F358	Oil Well Operation / Maintenance	03/31/1998

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COPY

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ATTN: JOHN FOX
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LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801126-0001-2	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801126-0001-2	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801126-0001-2	F358	Oil Well Operation / Maintenance	03/31/1998

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WEST PICO WELL #15B
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

Miscellaneous Correspondence Cover Sheet

Account Number: 000080112600012

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801127-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #16-C

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801127-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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WEST PICO WELL #16-C

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801127-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #16-C

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801127-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #16-C
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801127-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #16-C
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801127-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #16-C
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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WEST PICO WELL #16-C

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801127-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #16-C

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801127-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #16-C
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #16-C

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801127-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #16-C
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #16-C

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/10/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801127-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #16-C
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
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WEST PICO WELL #16-C

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/09/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801127-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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WEST PICO WELL #16-C

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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801127-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801127-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #16-C
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #16-C
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801127-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #16-C
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #16-C
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801127-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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ISSUED TO
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WEST PICO WELL #16-C
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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Los Angeles CA 90053-0200

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801127-0001-7	F358	Oil Well Operation / Maintenance	03/31/1998

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ISSUED TO
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WEST PICO WELL #16-C
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801127-0001-7	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801127-0001-7	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
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LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801127-0001-7	F358	Oil Well Operation / Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000080112700017

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000793014-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #17D

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000793014-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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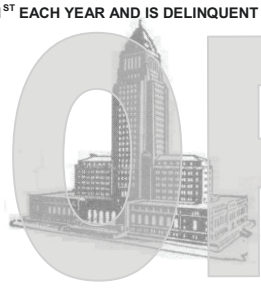
COPY



ISSUED TO

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #17D
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terazas

FIRE CHIEF

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

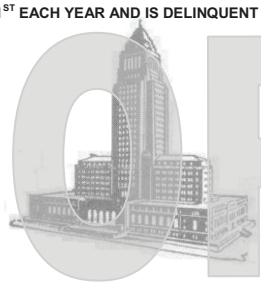
FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000793014-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY



ISSUED TO

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #17D

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Robert M. Tenorio

FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000793014-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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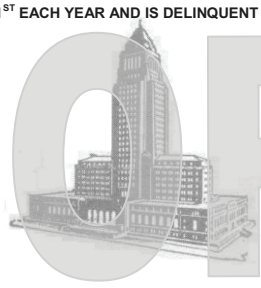

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terazas

FIRE CHIEF

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Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #17D

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

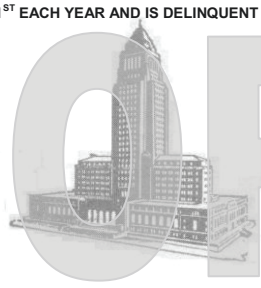
FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000793014-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY



ISSUED TO

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #17D

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas

FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
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BREITBURN ENERGY COMPANY LLC
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000793014-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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ISSUED TO
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WEST PICO WELL #17D
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terazas

FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Office of Finance
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WEST PICO WELL #17D

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000793014-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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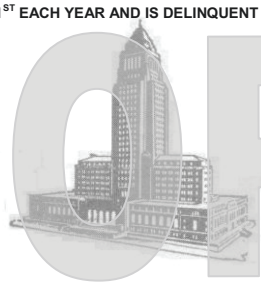

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WEST PICO WELL #17D
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000793014-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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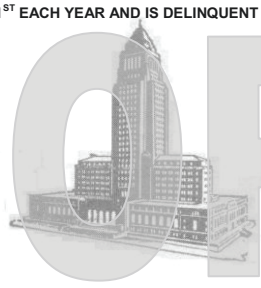

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12/31/2013

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #17D

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/10/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000793014-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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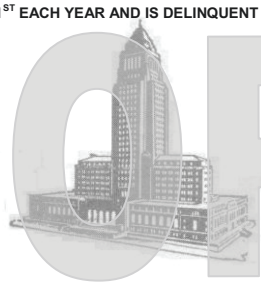

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000793014-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

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0000793014-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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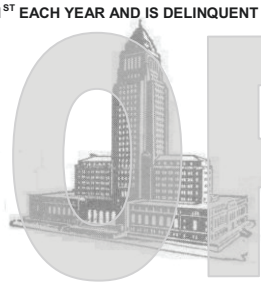

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #17D
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Robert M. Tenorio
FIRE CHIEF

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000793014-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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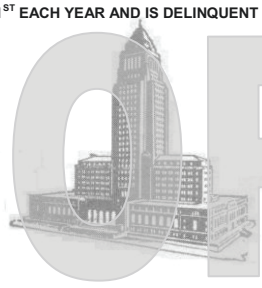

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Robert M. Tenorio

FIRE CHIEF

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CITY OF LOS ANGELES
Office of Finance
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Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #17D
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000793014-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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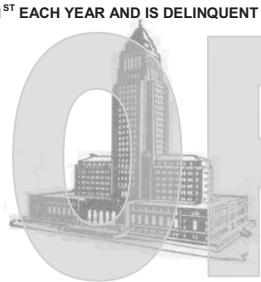

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WEST PICO WELL #17D
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Robert M. Tenorio

FIRE CHIEF

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ORCUTT, CA 93455-6016

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000793014-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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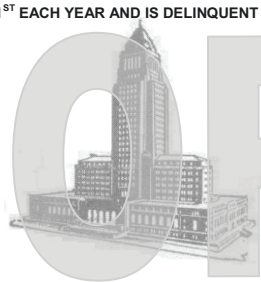

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LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Robert M. Tenorio

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

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ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

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ORCUTT, CA 93455-6016

12/31/2019

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #17D
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

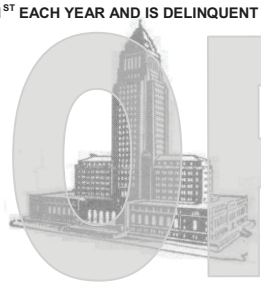
CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000793014-0001-8	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #17D
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

COPY



12/31/2020

BY: Robert M. Tenorio
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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ATTN: JOHN FOX
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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000793014-0001-8	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #17D
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000079301400018

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801756-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

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0000801756-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801756-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801756-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801756-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

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LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

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12/31/2011

BY: Ralph M. Terrazas
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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801756-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/10/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801756-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801756-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #18E
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #18E

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/19/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801756-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #18E
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #18E

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801756-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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WEST PICO WELL #18E
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #18E
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801756-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #18E
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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WEST PICO WELL #18E
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801756-0001-2	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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WEST PICO WELL #18E
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801756-0001-2	F358	Oil Well Operation / Maintenance	03/31/1998

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ISSUED TO
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WEST PICO WELL #18E
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801756-0001-2	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #18E
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801756-0001-2	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #18E
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
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Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #18E
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801756-0001-2	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #18E
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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IMPORTANT – READ REVERSE SIDE

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Miscellaneous Correspondence Cover Sheet

Account Number: 000080175600012

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

AUTHENTICATION: 9248108

111321572

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000793012-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

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Office of Finance
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Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #19F

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

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COPY

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WEST PICO WELL #19F
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000793012-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #19F

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000793012-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

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0000793012-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
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12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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9151 W PICO BOULEVARD
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000793012-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000793012-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2012

BY: Ralph M. Terrazas
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FIRE PERMIT

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0000793012-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2013

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LOS ANGELES, CA 90071-2241

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/10/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000793012-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2013

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0000793012-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2014

BY: Ralph M. Terrazas
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000793012-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #19F
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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WEST PICO WELL #19F

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000793012-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
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12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #19F
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000793012-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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WEST PICO WELL #19F
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #19F
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000793012-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000793012-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000793012-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #19F
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000793012-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #19F
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000079301200019

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2201

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856424-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2201

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Office of Finance
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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #20-G

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2201

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856424-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #20-G
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2201

12/31/2006

BY: Ralph M. Terazas
FIRE CHIEF

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2201

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856424-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2201

12/31/2007

BY: Ralph M. Terazas
FIRE CHIEF

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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #20-G

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856424-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #20-G
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856424-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #20-G
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856424-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #20-G
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #20-G

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856424-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #20-G
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #20-G

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 04/10/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856424-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #20-G
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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PACIFIC COAST ENERGY COMPANY LP
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 04/10/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856424-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856424-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/19/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856424-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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WEST PICO WELL #20-G

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856424-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #20-G
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #20-G
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856424-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #20-G
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #20-G
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856424-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #20-G
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856424-0001-6	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856424-0001-6	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856424-0001-6	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856424-0001-6	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000085642400016

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801758-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

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Office of Finance
P.O. Box 53200
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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #21-H

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801758-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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BREITBURN ENERGY COMPANY LLC
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

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0000801758-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801758-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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WEST PICO WELL #21-H
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/17/2009

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12/31/2009

BY: Ralph M. Terrazas
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #21-H

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801758-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801758-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
P.O. Box 53200
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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #21-H

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801758-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2012

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

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0000801758-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2013

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801758-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2013

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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2013

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12/31/2014

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/19/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801758-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

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0000801758-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #21-H
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801758-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #21-H
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
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PACIFIC COAST ENERGY COMPANY LP
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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801758-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801758-0001-1	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
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LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801758-0001-1	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801758-0001-1	F358	Oil Well Operation / Maintenance	03/31/1998

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12/31/2020

BY: Ralph M. Terrazas
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000801758-0001-1	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #21-H
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

Miscellaneous Correspondence Cover Sheet

Account Number: 000080175800011

Legal Name: PACIFIC COAST ENERGY COMPANY LP

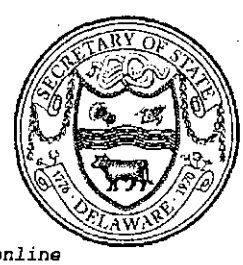
Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.



Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856425-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
Office of Finance
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Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #22-AA

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856425-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #22-AA
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856425-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #22-AA
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856425-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #22-AA
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

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0000856425-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/17/2009

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12/31/2009

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856425-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #22-AA
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

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LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2012

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

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0000856425-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856425-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/10/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856425-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #22-AA

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856425-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
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WEST PICO WELL #22-AA
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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WEST PICO WELL #22-AA

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856425-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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WEST PICO WELL #22-AA
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terazas
FIRE CHIEF

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #22-AA
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856425-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #22-AA
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856425-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #22-AA
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856425-0001-1	F358	Oil Well Operation / Maintenance	03/31/1998

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WEST PICO WELL #22-AA
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856425-0001-1	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
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LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856425-0001-1	F358	Oil Well Operation / Maintenance	03/31/1998

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COPY

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856425-0001-1	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #22-AA
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000085642500011

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856427-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

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Office of Finance
P.O. Box 53200
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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #24-P

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856427-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

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0000856427-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856427-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856427-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #24-P
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #24-P

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/17/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856427-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #24-P
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Office of Finance
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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856427-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856427-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856427-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2012

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856427-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2013

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/10/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856427-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #24-P

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856427-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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WEST PICO WELL #24-P
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856427-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #24-P
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856427-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #24-P
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856427-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
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WEST PICO WELL #24-P
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856427-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856427-0001-0	F358	Oil Well Operation / Maintenance	03/31/1998

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
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ATTN: JOHN FOX
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ORCUTT, CA 93455-6016

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856427-0001-0	F358	Oil Well Operation / Maintenance	03/31/1998

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
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(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #24-P
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856427-0001-0	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #24-P
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856427-0001-0	F358	Oil Well Operation / Maintenance	03/31/1998

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000085642700010

Legal Name: PACIFIC COAST ENERGY COMPANY LP

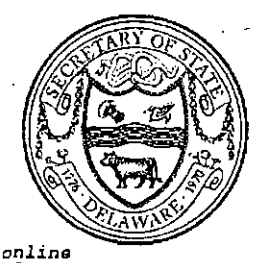
Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.



Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. *The Certificate of* Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856428-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856428-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856428-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856428-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856428-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/17/2009

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12/31/2009

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FIRE PERMIT

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12/31/2010

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

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12/31/2012

BY: Ralph M. Terrazas
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

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0000856428-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/10/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856428-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #25-Z
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #25-Z

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/09/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856428-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #25-Z
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #25-Z

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/19/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856428-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #25-Z
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #25-Z

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856428-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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WEST PICO WELL #25-Z
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #25-Z
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856428-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #25-Z
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Office of Finance
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Los Angeles CA 90053-0200

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WEST PICO WELL #25-Z
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856428-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #25-Z
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856428-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

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COPY

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WEST PICO WELL #25-Z
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856428-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #25-Z
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #25-Z
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856428-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #25-Z
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #25-Z
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856428-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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WEST PICO WELL #25-Z
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000085642800014

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

AUTHENTICATION: 9248108

111321572

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856429-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #26-W

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

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COPY

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WEST PICO WELL #26-W
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #26-W

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856429-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
Office of Finance
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Los Angeles CA 90053-0200

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856429-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #26-W
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/17/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856429-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856429-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856429-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856429-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90071-2241

12/31/2012

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

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0000856429-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2013

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/12/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856429-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #26-W
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #26-W

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856429-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/10/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856429-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856429-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #26-W
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856429-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856429-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856429-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #26-W
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #26-W
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856429-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

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COPY

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Los Angeles CA 90053-0200

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856429-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856429-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000085642900019

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856461-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #27-CC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856461-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856461-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #27-CC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856461-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856461-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/17/2009

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515 S FLOWER STREET #4800
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12/31/2009

BY: Ralph M. Terrazas
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FIRE PERMIT

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12/31/2010

BY: Ralph M. Terrazas
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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856461-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

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0000856461-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #27-CC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856461-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #27-CC
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/12/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856461-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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WEST PICO WELL #27-CC
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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WEST PICO WELL #27-CC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/09/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856461-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #27-CC
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/19/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856461-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #27-CC
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856461-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #27-CC
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #27-CC
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856461-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #27-CC
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856461-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #27-CC
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856461-0001-7	F358	Oil Well Operation / Maintenance	03/31/1998

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WEST PICO WELL #27-CC
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
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Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #27-CC
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856461-0001-7	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #27-CC
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856461-0001-7	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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WEST PICO WELL #27-CC
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000856461-0001-7	F358	Oil Well Operation / Maintenance	03/31/1998

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COPY

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WEST PICO WELL #27-CC
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000085646100017

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960251-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #28Q

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960251-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #28Q
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #28Q

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960251-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terazas
FIRE CHIEF

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960251-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960251-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/17/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960251-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960251-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960251-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960251-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terazas
FIRE CHIEF

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 04/10/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960251-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
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Office of Finance
P.O. Box 53200
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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #28Q

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 04/10/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960251-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2013

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WEST PICO WELL #28Q

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/09/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960251-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960251-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960251-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
P.O. Box 53200
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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #28Q
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960251-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #28Q
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960251-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
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WEST PICO WELL #28Q
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960251-0001-5	F358	Oil Well Operation / Maintenance	03/31/1998

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ISSUED TO
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WEST PICO WELL #28Q
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960251-0001-5	F358	Oil Well Operation / Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960251-0001-5	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960251-0001-5	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000096025100015

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960246-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

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WEST PICO WELL #29Y

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960246-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #29Y
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terazas
FIRE CHIEF

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Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #29Y

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960246-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960246-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960246-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #29Y
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/17/2009

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12/31/2009

BY: Ralph M. Terrazas
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12/31/2010

BY: Ralph M. Terrazas
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FIRE PERMIT

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #29Y

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960246-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #29Y
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

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FIRE PERMIT

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12/31/2013

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/12/2013

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12/31/2013

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12/31/2014

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960246-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

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12/31/2016

BY: Ralph M. Terrazas
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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #29Y
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960246-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #29Y
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960246-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #29Y
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

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ORCUTT, CA 93455-6016

12/31/2018

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960246-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

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9151 W PICO BLVD
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

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0000960246-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

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12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000096024600014

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960253-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #30J

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960253-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #30J
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960253-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960253-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960253-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/17/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960253-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
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12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960253-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960253-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960253-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960253-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
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12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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CITY OF LOS ANGELES
Office of Finance
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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #30J

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/12/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960253-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #30J
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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PACIFIC COAST ENERGY COMPANY LP
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/28/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960253-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
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9151 W PICO BLVD
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515 S FLOWER STREET #4800
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12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960253-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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515 S FLOWER STREET #4800
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12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

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12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #30J
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960253-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Office of Finance
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Los Angeles CA 90053-0200

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WEST PICO WELL #30J
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960253-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Robb M. Terazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960253-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960253-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960253-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ATTN: JOHN FOX
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LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960253-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000096025300014

Legal Name: PACIFIC COAST ENERGY COMPANY LP

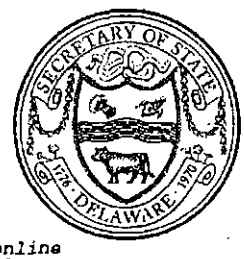
Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.



Jeffrey W. Bullock, Secretary of State

3816394 8100

AUTHENTICATION: 9248108

111321572

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960250-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #31-R

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960250-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terazas
FIRE CHIEF

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960250-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960250-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960250-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/17/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960250-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960250-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #31-R
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

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Office of Finance
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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #31-R

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960250-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Office of Finance
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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #31-R

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960250-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #31-R

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LOS ANGELES, CA 90035-1347
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12/31/2012

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960250-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2013

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/12/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960250-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2013

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WEST PICO WELL #31-R

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2013

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0000960250-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2014

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

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0000960250-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #31-R
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

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0000960250-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #31-R
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960250-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #31-R
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #31-R
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960250-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960250-0001-1	F358	Oil Well Operation / Maintenance	03/31/1998

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COPY

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WEST PICO WELL #31-R
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
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9151 W PICO BLVD
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960250-0001-1	F358	Oil Well Operation / Maintenance	03/31/1998

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COPY

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960250-0001-1	F358	Oil Well Operation / Maintenance	03/31/1998

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ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

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ORCUTT, CA 93455-6016

12/31/2021

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IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

Miscellaneous Correspondence Cover Sheet

Account Number: 000096025000011

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

July 26, 2016

City of Los Angeles
Office of Finance
PO Box 53200
Los Angeles, CA 90053-0200

RE: Pacific Coast Energy Company LP
Change of Billing Address

To whom it may concern:

We need to change the mailing & billing address for the enclosed list of wells.

Currently, the mailing/billing address is:

Pacific Coast Energy Company LP
515 S Flower St Ste 4800
Los Angeles, CA 90071-2241

The new mailing and billing address is:

Pacific Coast Energy Company LP
Attn: John Fox
1555 Orcutt Hill Road
Orcutt, CA 93455

Should you have any questions or need more information, please feel free to contact me by email or phone number shown below.

Sincerely,

John Fox
Environmental, Health & Safety Manager

[redacted]

Enclosures

CC: Phil Brown

2016 Fire Permit Renewal- City of Los Angeles

Pacific Coast Energy Company LP			
Well/Location	Account No.	AP Code	[redacted]
WP- Well 31-R	0000960250-0001-1	311.1001031.00 / 106105	
Well PW-9	0000238376-0001-4	311.1001053.00 / 106105	
Well 39-L	0000238381-0001-5	311.1001039.00 /106105	
OW-8	0000238377-0001-9	311.1001052.00 / 106105	
Well T W-1	0000960248-0001-3	311.1001057.00 / 106105	
HW-10	0000173760-0001-0	311.1001046.00 / 106105	
WP Well 15B	0000801126-0001-2	311.1001015.00 / 106105	
WP Well 2	0000776848-0001-1	311.1001002.00 / 106105	
WP Well 43-T	0000266508-0001-9	311.1001043.00 / 106105	
WP Well 40-V	0000238382-0001-0	311.1001040.00 / 106105	
WP 44	0000159635-0001-4	311.1001044.00 / 106105	
WP Well 3	0000776847-0001-7	311.1001003.00 / 106105	
WP Well 42KK	0000266507-0001-4	311.1001042.00 / 106105	
WP Well 6	0000776851-0001-3	311.1001006.00 / 106105	
WP Well 41-HH	0000238375-0001-0	311.1001041.00 / 106105	
WP Well 30J	0000960253-0001-4	311.1001030.00 / 106105	
WP Well J W-3	0000958551-0001-1	311.1001048.00 / 106105	
WP Well 28Q	0000960251-0001-5	311.1001028.00 / 106105	
WP Well 16-C	0000801127-0001-7	311.1001016.00 / 106105	
WP Well 7	0000801118-0001-8	311.1001007.00 / 106105	
WP Well 18E	0000801756-0001-2	311.1001018.00 / 106105	
WP Well 8	0000801119-0001-2	311.1001008.00 / 106105	
WP Well 24-P	0000856427-0001-0	311.1001024.00 / 106105	
WP Well 11	0000801122-0001-4	311.1001011.00 / 106105	
WP Well 32S	0000960249-0001-8	311.1001032.00 / 106105	
WP Well 27-CC	0000856461-0001-7	311.1001027.00 / 106105	
WP Well 14A	0000801125-0001-8	311.1001014.00 / 106105	
WP Well 1	0000776849-0001-6	311.1001401.00 / 106105	
WP Well 35-0	0000958552-0001-6	311.1001035.00 / 106105	
WP Well 20-G	0000856424-0001-6	311.1001020.00 / 106105	
WP Well NW-4	0000966889-0001-5	311.1001051.00 / 106105	
WP Well 26-W	0000856429-0001-9	311.1001026.00 / 106105	
WP Well 13	0000801124-0001-3	311.1001013.00 / 106105	
WP Well 17D	0000793014-0001-8	311.1001017.00 / 106105	
WP Well 37-II	0000238379-0001-8	311.1001037.00 / 106105	
WP well IW-6	0000978366-0001-4	311.1001047.00 / 106105	
WP Well 34M	0000958600-0001-7	311.1001034.00 / 106105	
WP Well RW-2	0000954417-0001-7	311.1001054.00 / 106105	
WP Well 10	0000801121-0001-0	311.1001010.00 / 106105	
WP Well 36-I	0000978367-0001-9	311.1001036.00 / 106105	
WP Well 29Y	0000960246-0001-4	311.1001029.00 / 106105	
WP Well KW-5	0000954586-0001-6	311.1001049.00 / 106105	

WP Well 5	0000776853-0001-2	311.1001005.00 / 106105	[redacted]
WP Well 4	0000776852-0001-8	311.1001004.00 / 106105	
WP Well 19F	0000793012-0001-9	311.1001019.00 / 106105	
WP Well SW-7	0000238378-0001-3	311.1001056.00 / 106105	
WP 45-GG	0000173762-0001-9	311.1001045.00 / 106105	
WP Well 22-AA	0000856425-0001-1	311.1001022.00 / 106105	
WP Well 21-H	0000801758-0001-1	311.1001021.00 / 106105	
WP Well 9	0000801120-0001-5	311.1001009.00 / 106105	
WP Well 33X	0000960247-0001-9	311.1001033.00 / 106105	
WP Well 25-Z	0000856428-0001-4	311.1001025.00 / 106105	
WP Well 12	0000801123-0001-9	311.1001012.00 / 106105	
WP Well 38-K	0000238380-0001-1	311.1001038.00 / 106105	
WP 58/Fire 3265	0002468119-0001-9	311.1001058.00 / 106105	
LW-11	0000173761-0001-4	311.1001050.00 / 106105	
		TOTAL	

Approver

10-29-15
Date

Pacific Coast Energy Company LP
1555 Orcutt Hill Road
Orcutt, CA 93455

SANTA BARBARA
CA 931
26 JUL '16

93455
46 cents
US POSTAGE
FIRST-CLASS

City of Los Angeles
Office of Finance
PO Box 53200
Los Angeles, CA 90053-0200

90053-020000

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960249-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #32S

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960249-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #32S
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #32S

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960249-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #32S
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960249-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
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WEST PICO WELL #32S
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #32S

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960249-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #32S
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terazas
FIRE CHIEF

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/17/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960249-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #32S
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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BREITBURN ENERGY COMPANY LLC
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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960249-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #32S
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Office of Finance
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Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #32S

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960249-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #32S
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #32S

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960249-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #32S
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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BREITBURN ENERGY COMPANY LLC
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960249-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #32S
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #32S

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/12/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960249-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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WEST PICO WELL #32S
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #32S

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/12/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960249-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960249-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #32S
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Office of Finance
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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

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0000960249-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #32S
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
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Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #32S
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960249-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #32S
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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Los Angeles CA 90053-0200

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960249-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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ATTN: JOHN FOX
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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960249-0001-8	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #32S
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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WEST PICO WELL #32S
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960249-0001-8	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #32S
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960249-0001-8	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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WEST PICO WELL #32S
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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PACIFIC COAST ENERGY COMPANY LP
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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960249-0001-8	F358	Oil Well Operation / Maintenance	03/31/1998

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COPY

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000096024900018

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960247-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

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Office of Finance
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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #33X

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #33X

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960247-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

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Office of Finance
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515 S FLOWER STREET #4800
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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960247-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

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WEST PICO WELL #33X

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960247-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/17/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960247-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960247-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960247-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960247-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960247-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2013

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #33X

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/12/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960247-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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PACIFIC COAST ENERGY COMPANY LP
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960247-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #33X
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/19/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960247-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960247-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Office of Finance
P.O. Box 53200
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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #33X
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960247-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960247-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #33X
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960247-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #33X
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960247-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960247-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

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WEST PICO WELL #33X
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000960247-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000096024700019

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

AUTHENTICATION: 9248108

111321572

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958600-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

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WEST PICO WELL #34M

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958600-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958600-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #34M
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958600-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958600-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #34M
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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
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LOS ANGELES, CA 90071-2241

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/17/2009

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12/31/2009

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12/31/2010

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FIRE PERMIT

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958600-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #34M
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #34M

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958600-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #34M

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/12/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958600-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #34M
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #34M

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/10/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958600-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #34M

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958600-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #34M
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958600-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Office of Finance
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Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #34M
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958600-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #34M
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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Los Angeles CA 90053-0200

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WEST PICO WELL #34M
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958600-0001-7	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #34M
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958600-0001-7	F358	Oil Well Operation / Maintenance	03/31/1998

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COPY

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958600-0001-7	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958600-0001-7	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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WEST PICO WELL #34M
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958600-0001-7	F358	Oil Well Operation / Maintenance	03/31/1998

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COPY

ISSUED TO
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WEST PICO WELL #34M
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000095860000017

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

AUTHENTICATION: 9248108

111321572

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958552-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #35-0

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958552-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958552-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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515 S FLOWER STREET #4800
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12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958552-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958552-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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9151 W PICO BOULEVARD
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/17/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958552-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958552-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958552-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958552-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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WEST PICO WELL #35-0

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958552-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #35-0

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/12/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958552-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Office of Finance
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PACIFIC COAST ENERGY COMPANY LP
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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/10/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958552-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958552-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958552-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #35-0
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958552-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #35-0
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #35-0
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958552-0001-6	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
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WEST PICO WELL #35-0
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958552-0001-6	F358	Oil Well Operation / Maintenance	03/31/1998

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COPY

ISSUED TO
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WEST PICO WELL #35-0
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958552-0001-6	F358	Oil Well Operation / Maintenance	03/31/1998

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ORCUTT, CA 93455-6016

12/31/2019

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958552-0001-6	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
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LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000958552-0001-6	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ATTN: JOHN FOX
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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000095855200016

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

AUTHENTICATION: 9248108

111321572

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978367-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #36-I

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978367-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #36-I
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #36-I

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978367-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978367-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978367-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/17/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
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12/31/2009

BY: Ralph M. Terrazas
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12/31/2010

BY: Ralph M. Terrazas
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P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #36-I

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978367-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #36-I
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #36-I

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978367-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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WEST PICO WELL #36-I

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978367-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2013

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/12/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978367-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
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515 S FLOWER STREET #4800
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12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/09/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978367-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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WEST PICO WELL #36-I
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/19/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978367-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

ISSUED TO
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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978367-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #36-I
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978367-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #36-I
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #36-I
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978367-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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WEST PICO WELL #36-I
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978367-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

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COPY

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978367-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978367-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000978367-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000097836700019

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238379-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

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FIRE PERMIT

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12/31/2006

BY: Ralph M. Terazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

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12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

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12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

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12/31/2009

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CITY OF LOS ANGELES **ISSUED:** 12/15/2009

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12/31/2010

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

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0000238379-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2011

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 03/25/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238379-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2011

BY: Ralph M. Terrazas
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/22/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238379-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2012

BY: Ralph M. Terrazas
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/12/2013

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12/31/2013

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12/31/2013

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12/31/2014

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12/31/2015

BY: Ralph M. Terrazas
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FIRE PERMIT

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WEST PICO WELL #37-II
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #37-II
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238379-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #37-II
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238379-0001-8	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238379-0001-8	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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Los Angeles CA 90053-0200

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238379-0001-8	F358	Oil Well Operation / Maintenance	03/31/1998

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WEST PICO WELL #37-II
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238379-0001-8	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238379-0001-8	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238380-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #38-K

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238380-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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WEST PICO WELL #38-K

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238380-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238380-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terazas
FIRE CHIEF

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238380-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

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12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238380-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2011

BY: Ralph M. Terrazas
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P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #38-K

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238380-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #38-K
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

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12/31/2013

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/11/2013

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0000238380-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2013

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FIRE PERMIT

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12/31/2014

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238380-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

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0000238380-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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Office of Finance
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Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #38-K
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238380-0001-1	F358	Oil Well Operation /Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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1555 ORCUTT HILL ROAD
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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238380-0001-1	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

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0000238380-0001-1	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238380-0001-1	F358	Oil Well Operation / Maintenance	03/31/1998

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ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238380-0001-1	F358	Oil Well Operation / Maintenance	03/31/1998

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238380-0001-1	F358	Oil Well Operation / Maintenance	03/31/1998

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ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000023838000011

Legal Name: PACIFIC COAST ENERGY COMPANY LP

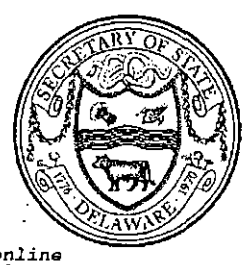
Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.



Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238381-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WELL 39-L

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238381-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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BREITBURN ENERGY COMPANY LLC
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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238381-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238381-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238381-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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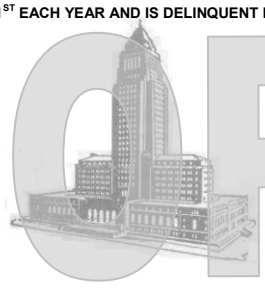

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238381-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238381-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238381-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BOULEVARD
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238381-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
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515 S FLOWER STREET #4800
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12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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PACIFIC COAST ENERGY COMPANY LP
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515 S FLOWER STREET #4800
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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/12/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238381-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/09/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238381-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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515 S FLOWER STREET #4800
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12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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PACIFIC COAST ENERGY COMPANY LP
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238381-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

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0000238381-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WELL 39-L
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238381-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238381-0001-5	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WELL 39-L
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WELL 39-L
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238381-0001-5	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
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WELL 39-L
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Robert M. Tenorio
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WELL 39-L
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238381-0001-5	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ISSUED TO
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WELL 39-L
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238381-0001-5	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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WELL 39-L
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238381-0001-5	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WELL 39-L
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000023838100015

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238382-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #40-V

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238382-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #40-V
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #40-V

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238382-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #40-V
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

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P.O. Box 53200
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BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #40-V

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238382-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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WEST PICO WELL #40-V
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238382-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ISSUED TO
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WEST PICO WELL #40-V
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

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0000238382-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238382-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 03/25/2011

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0000238382-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #40-V

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238382-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #40-V

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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FIRE PERMIT

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12/31/2013

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/11/2013

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0000238382-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2013

BY: Ralph M. Terrazas
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FIRE PERMIT

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12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238382-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #40-V
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

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12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #40-V
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238382-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #40-V
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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WEST PICO WELL #40-V
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238382-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #40-V
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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WEST PICO WELL #40-V
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238382-0001-0	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238382-0001-0	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238382-0001-0	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238382-0001-0	F358	Oil Well Operation / Maintenance	03/31/1998

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ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000023838200010

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

AUTHENTICATION: 9248108

111321572

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238375-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #41-HH

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238375-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #41-HH
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Los Angeles CA 90053-0200

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238375-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO WELL #41-HH
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238375-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #41-HH
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238375-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

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0000238375-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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WEST PICO WELL #41-HH
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LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238375-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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BREITBURN ENERGY COMPANY LLC
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LOS ANGELES, CA 90071-2241

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238375-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238375-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terazas
FIRE CHIEF

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Office of Finance
P.O. Box 53200
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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #41-HH

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238375-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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WEST PICO WELL #41-HH

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238375-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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WEST PICO WELL #41-HH

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/19/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238375-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #41-HH

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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238375-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #41-HH
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238375-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

ISSUED TO
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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #41-HH
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238375-0001-0	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Los Angeles CA 90053-0200

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238375-0001-0	F358	Oil Well Operation / Maintenance	03/31/1998

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ISSUED TO
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WEST PICO WELL #41-HH
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238375-0001-0	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238375-0001-0	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000238375-0001-0	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000023837500010

Legal Name: PACIFIC COAST ENERGY COMPANY LP

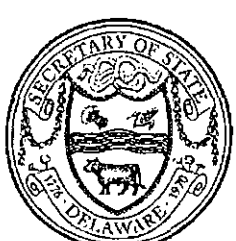
Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.



Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "*Partnership*") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266507-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

IMPORTANT – READ REVERSE SIDE

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Los Angeles CA 90053-0200

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WEST PICO WELL #42KK

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266507-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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WEST PICO WELL #42KK

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266507-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266507-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266507-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

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0000266507-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

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12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266507-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #42KK
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #42KK

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266507-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
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12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/12/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266507-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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WEST PICO WELL #42KK
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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WEST PICO WELL #42KK

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/09/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266507-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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PACIFIC COAST ENERGY COMPANY LP
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266507-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #42KK
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266507-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Office of Finance
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Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #42KK
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266507-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #42KK
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
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Los Angeles CA 90053-0200

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WEST PICO WELL #42KK
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266507-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #42KK
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266507-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266507-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266507-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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WEST PICO WELL #42KK
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266507-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

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COPY

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000026650700014

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

AUTHENTICATION: 9248108

111321572

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266508-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO WELL #43-T

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266508-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266508-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266508-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266508-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266508-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO WELL #43-T
9151 W PICO BOULEVARD
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515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266508-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266508-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266508-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90035-1347
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LOS ANGELES, CA 90071-2241

12/31/2013

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #43-T

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266508-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #43-T

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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/12/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266508-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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WEST PICO WELL #43-T
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #43-T

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266508-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266508-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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WEST PICO WELL #43-T
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #43-T
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266508-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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ORCUTT, CA 93455-6016

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266508-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #43-T
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266508-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #43-T
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
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Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #43-T
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266508-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
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WEST PICO WELL #43-T
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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Los Angeles CA 90053-0200

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WEST PICO WELL #43-T
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266508-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

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PACIFIC COAST ENERGY COMPANY LP
WEST PICO WELL #43-T
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Ralph M. Terrazas
FIRE CHIEF

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ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000266508-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

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WEST PICO WELL #43-T
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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Miscellaneous Correspondence Cover Sheet

Account Number: 000026650800019

Legal Name: PACIFIC COAST ENERGY COMPANY LP

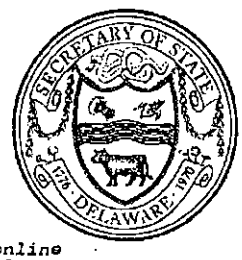
Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.



Jeffrey W. Bullock, Secretary of State

3816394 8100

AUTHENTICATION: 9248108

111321572

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000159635-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO

BREITBURN ENERGY COMPANY LLC

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200

IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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CITY OF LOS ANGELES
Office of Finance
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Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO 44

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000159635-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO 44

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000159635-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO 44
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO 44

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000159635-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO 44
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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Office of Finance
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BREITBURN ENERGY COMPANY LLC
WEST PICO 44

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000159635-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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ISSUED TO
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WEST PICO 44
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2009

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000159635-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO 44
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000159635-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BOULEVARD
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

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0000159635-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2012

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

POSTING AND KEEPING. EACH VALID PERMIT ISSUED PURSUANT TO THE PROVISIONS OF THIS DIVISION SHALL BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES FOR WHICH THE SAME IS ISSUED. PERSONS ENGAGED IN THE BUSINESS OF OPERATING OR MAINTAINING ANY OIL WELL SHALL KEEP THE PERMIT AVAILABLE FOR INSPECTION AT THE MAIN OFFICE OR PRINCIPAL PLACE OF BUSINESS OF THE PERMITTEE.

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO 44

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000159635-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

ISSUED TO
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WEST PICO 44
9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terrazas
FIRE CHIEF

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IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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Office of Finance
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Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO 44

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/09/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000159635-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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WEST PICO 44
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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WEST PICO 44

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000159635-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

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0000159635-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BLVD
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12/31/2016

BY: Ralph M. Terrazas
FIRE CHIEF

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Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO 44
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000159635-0001-4	F358	Oil Well Operation /Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2017

BY: Ralph M. Terrazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000159635-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
9151 W PICO BLVD
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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000159635-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

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ATTN: JOHN FOX
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LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000159635-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

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WEST PICO 44
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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WEST PICO 44
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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000159635-0001-4	F358	Oil Well Operation / Maintenance	03/31/1998

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12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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BREITBURN ENERGY COMPANY LLC

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/04/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173762-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

ISSUED TO

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2005

BY: William R. Bamattre

CHIEF ENG./GEN. MGR

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BREITBURN ENERGY COMPANY LLC
WEST PICO 45-GG

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/06/2005

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173762-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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COPY

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2006

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/07/2006

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173762-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

12/31/2007

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2008

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173762-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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515 S FLOWER STREET #4800
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12/31/2008

BY: Ralph M. Terrazas
FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/22/2009

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12/31/2009

BY: Ralph M. Terazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY COMPANY LLC
WEST PICO 45-GG

515 S FLOWER STREET #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/15/2009

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173762-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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9151 W PICO BOULEVARD
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LOS ANGELES, CA 90071-2241

12/31/2010

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173762-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2011

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FIRE CHIEF

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173762-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2012

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/11/2013

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0000173762-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173762-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2013

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FIRE PERMIT

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12/31/2014

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173762-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terrazas
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

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0000173762-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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LOS ANGELES, CA 90071-2241

12/31/2016

BY: Ralph M. Terrazas
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P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO 45-GG
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173762-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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WEST PICO 45-GG
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2016

BY: Ralph M. Terrazas
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9151 W PICO BLVD
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173762-0001-9	F358	Oil Well Operation /Maintenance	03/31/1998

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12/31/2017

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ORCUTT, CA 93455-6016

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2017

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173762-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2018

BY: Ralph M. Terrazas
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173762-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

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9151 W PICO BLVD
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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
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12/31/2020

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0000173762-0001-9	F358	Oil Well Operation / Maintenance	03/31/1998

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COPY

ISSUED TO
PACIFIC COAST ENERGY COMPANY LP
WEST PICO 45-GG
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

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BREITBURN ENERGY CO LP
WEST PICO 58 / FIRE 3265

515 S FLOWER STREET SUITE #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 04/20/2010

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0002468119-0001-9	F358	Oil Well Operation /Maintenance	01/01/2009

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515 S FLOWER STREET SUITE #4800
LOS ANGELES, CA 90071-2241

12/31/2010

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 04/21/2010

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0002468119-0001-9	F358	Oil Well Operation /Maintenance	01/01/2009

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12/31/2010

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 04/21/2010

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0002468119-0001-9	F358	Oil Well Operation /Maintenance	01/01/2009

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/18/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0002468119-0001-9	F358	Oil Well Operation /Maintenance	01/01/2009

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9151 W PICO BOULEVARD
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515 S FLOWER STREET SUITE #4800
LOS ANGELES, CA 90071-2241

12/31/2011

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515 S FLOWER STREET SUITE #4800
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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

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0002468119-0001-9	F358	Oil Well Operation /Maintenance	01/01/2009

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12/31/2012

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FIRE PERMIT

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12/31/2013

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515 S FLOWER STREET SUITE #4800
LOS ANGELES, CA 90071-2241

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0002468119-0001-9	F358	Oil Well Operation /Maintenance	01/01/2009

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LOS ANGELES, CA 90035-1347
515 S FLOWER STREET SUITE #4800
LOS ANGELES, CA 90071-2241

12/31/2013

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BREITBURN MANAGEMENT COMPANY L
515 S FLOWER STREET SUITE #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0002468119-0001-9	F358	Oil Well Operation /Maintenance	01/01/2009

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET SUITE #4800
LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BLVD
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/08/2014

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0002468119-0001-9	F358	Oil Well Operation /Maintenance	01/01/2009

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9151 W PICO BLVD
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LOS ANGELES, CA 90071-2241

12/31/2015

BY: Ralph M. Terazas
FIRE CHIEF

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9151 W PICO BLVD
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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/04/2015

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0002468119-0001-9	F358	Oil Well Operation /Maintenance	01/01/2009

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12/31/2016

BY: Ralph M. Terrazas
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WEST PICO 58 / FIRE 3265
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 08/01/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0002468119-0001-9	F358	Oil Well Operation /Maintenance	01/01/2009

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12/31/2016

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ORCUTT, CA 93455-6016

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FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 12/02/2016

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0002468119-0001-9	F358	Oil Well Operation /Maintenance	01/01/2009

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ORCUTT, CA 93455-6016

12/31/2017

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12/31/2018

BY: Ralph M. Terazas
FIRE CHIEF

THIS PERMIT IS GOOD UNTIL VOIDED OR REVOKED. IT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS- Office of Finance, P.O. Box 53200, Los Angeles CA 90053-0200
IMPORTANT – READ REVERSE SIDE

SECTION 57.04.08. PERMITS – POSTING AND KEEPING.

(AMMENDED BY ORD. NO. 172,043, Eff. 7/13/98)

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CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

PACIFIC COAST ENERGY COMPANY LP
WEST PICO 58 / FIRE 3265
ATTN: JOHN FOX
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 10/30/2018

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0002468119-0001-9	F358	Oil Well Operation / Maintenance	01/01/2009

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2019

BY: Ralph M. Terrazas
FIRE CHIEF

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9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/15/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0002468119-0001-9	F358	Oil Well Operation / Maintenance	01/01/2009

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

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1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2020

BY: Robb M. Terazas
FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 03/11/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0002468119-0001-9	F358	Oil Well Operation / Maintenance	01/01/2009

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ORCUTT, CA 93455-6016

12/31/2020

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FIRE CHIEF

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ORCUTT, CA 93455-6016

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 11/16/2020

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0002468119-0001-9	F358	Oil Well Operation / Maintenance	01/01/2009

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WEST PICO 59 / LAFD # 3399
ATTN: JOHN FOX
9151 W PICO BLVD
LOS ANGELES, CA 90035-1347
1555 ORCUTT HILL ROAD
ORCUTT, CA 93455-6016

12/31/2021

BY: Ralph M. Terrazas
FIRE CHIEF

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0002768119-0001-9-F358

T. Submitted 10/21/09

Print Form | Submit by Email

City of Los Angeles
Office of Finance
200 North Spring St. Rm 101
Los Angeles, CA 90012

BUSINESS TAX APPLICATION

PLEASE NOTE that if you are involved with any type of SALES ACTIVITIES, either RETAIL or WHOLESALE, you are REQUIRED to also fill out the Tobacco Retailer's Questionnaire/Application

The following information is subject to disclosure. FOR OFFICE USE ONLY: FUND/CLASS FUND/CLASS

Business Type (check one): ☐ Individual ☒ Partnership ☐ Corporation ☐ LLC ☐ Trust

Please print or type:

Legal Name: BreitBurn Energy Co. LP

Do not use DBA (fictitious name) here

Business Address: 9151 West Pico Blvd. | Los Angeles | CA | 90035
Do not use P.O. Box here | Street Address | City | State | Zip Code

Please check appropriate box ☒ Commercial Location ☐ Residence

Business Name (DBA): West Pico 58 / LAFD 3265

Care Of (C/O): BreitBurn Management Company LLC

Mailing Address: 515 South Flower Street, Suite 4800 | Los Angeles | CA | 90071
If different from Business Address | Street Address or P.O. Box | City | State | Zip Code

Please check appropriate box ☒ Commercial Location ☐ Residence

Starting Date of Business: Month unknown Day unknown Year 1966

Social Security No. (SSN) - OR - **Federal Employer Identification No. (FEIN):** [redacted]

Sales Tax Number (Seller's Permit): N/A

Description of Business: Oilwell
(Provide in Detail)

Web Address (optional): [redacted]

[1]**Primary Business/Professional Activity Code:** 211111

Business Phone Number: [redacted]

Secondary Business/Professional Activity Code:

Gross Receipts[2]**: (if your business began prior to the current year, please complete the gross receipts information below)**

Activity:	2001	2002	2003	2004	2005	2006	2007	2008

Please Note: A minimum business tax may be due based upon your business activity(ies) for the first year of operation

Contact Person: Martha Brock **Title:** EH&S Manager

Contact Phone Number: [redacted]

I declare, under penalty of perjury under the laws of the State of California, that to the best of my knowledge the foregoing is true, correct and complete.[4]

Signature of Owner or Agent Tom Myers Date 9/21/09

Print name of Owner or Agent Tom Myers

Daytime Telephone Number [redacted] Email Address [redacted]

[1] This is the 6-digit Primary / Principal Business or Profession Activity Code reported on your Federal Tax Return. A Secondary business activity is one that comprises at least $1,000,000 and 40% of your gross receipts. Go to lacity.org/finance/pdf/NAICSCODES.pdf for a NAICS code listing.

[2] If your business is located within the City of Los Angeles and a portion of your gross revenue is derived from outside the City, or your business is located outside the City and a portion of your gross revenue is derived from inside the City, then applicable apportionment formulas may reduce your tax liability.

[3] Due to the large number of various business activities described under LAMC Section 21.53 to 21.197, it is not practical to list each separately. For specific activities and rates, contact the Office of Finance or visit our website @ www.lacity.org/finance.

[4] By completing this form and submitting it to the Office of Finance in an electronic format, such as email, you agree that the submitted form has the same legal effect, validity and enforceability of a form submitted to us via US mail or in person. You also agree that the aforementioned form legally represents a document sent by you or your legal representative.

As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodations to ensure equal access to its programs, services, and activities.

Miscellaneous Correspondence Cover Sheet

Account Number: 000246811900019

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

AUTHENTICATION: 9248108

111321572

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

CITY OF LOS ANGELES
Office of Finance
P.O. Box 53200
Los Angeles CA 90053-0200

BREITBURN ENERGY CO LP
WEST PICO 59 / LAFD # 3399

515 S FLOWER STREET SUITE #4800
LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/31/2011

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0002468119-0002-7	F358	Oil Well Operation /Maintenance	11/01/2010

THIS FIRE PERMIT IS DUE AND PAYABLE NOVEMBER 1ST EACH YEAR AND IS DELINQUENT IF NOT PAID ON OR BEFORE DECEMBER 31ST EACH YEAR

COPY

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET SUITE #4800
LOS ANGELES, CA 90071-2241

12/31/2011

BY: Ralph M. Terrazas
FIRE CHIEF

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LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 01/12/2012

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12/31/2012

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LOS ANGELES, CA 90071-2241

9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

CITY OF LOS ANGELES **ISSUED:** 06/11/2013

PERMIT NO.	FUND/CLASS	DESCRIPTION	STARTED
0002468119-0002-7	F358	Oil Well Operation /Maintenance	11/01/2010

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9151 W PICO BOULEVARD
LOS ANGELES, CA 90035-1347
515 S FLOWER STREET SUITE #4800
LOS ANGELES, CA 90071-2241

12/31/2013

BY: Ralph M. Terazas
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LOS ANGELES, CA 90071-2241

9151 W PICO BLVD
LOS ANGELES, CA 90035-1347

FIRE PERMIT

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LOS ANGELES, CA 90071-2241

12/31/2014

BY: Ralph M. Terrazas
FIRE CHIEF

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Print Form | Submit by Email

City of Los Angeles
Office of Finance
200 North Spring St. Rm 101
Los Angeles, CA 90012

BUSINESS TAX APPLICATION

PLEASE NOTE that if you are involved with any type of SALES ACTIVITIES, either RETAIL or WHOLESALE, you are REQUIRED to also fill out the Tobacco Retailer's Questionnaire/Application

The following information is subject to disclosure. FOR OFFICE USE ONLY: FUND/CLASS FUND/CLASS

Business Type (check one): ☐ Individual ☒ Partnership ☐ Corporation ☐ LLC ☐ Trust

Please print or type:

Legal Name: BreitBurn Energy Company, LP

Do not use DBA (fictitious name) here

Business Address: 9151 West Pico Blvd | Los Angeles | CA | 90035
Do not use P. O. Box here — Street Address | City | State | Zip Code

Please check appropriate box ☒ Commercial Location ☐ Residence

Business Name (DBA): West Pico 59 / LAFD 3399

Care Of (C/O): BreitBurn Management Company, LLC

Mailing Address: 515 South Flower Street, Suite 4800 | Los Angeles | CA | 90071
If different from Business Address — Street Address or P.O. Box | City | State | Zip Code

Please check appropriate box ☒ Commercial Location ☐ Residence

Starting Date of Business: Month ~~Unknown~~ Nov Day _____ Year 2010

Social Security No. (SSN) - OR - **Federal Employer Identification No. (FEIN):** [redacted]

Sales Tax Number (Seller's Permit): N/A

Description of Business: Oil well
(Provide in Detail)

Web Address (optional): [redacted]

[1]**Primary Business/Professional Activity Code:** 211111

Business Phone Number [redacted]

Secondary Business/Professional Activity Code: _____

Gross Receipts[2]: (if your business began prior to the current year, please complete the gross receipts information below)

Activity:	2002	2003	2004	2005	2006	2007	2008	2009

Please Note: A minimum business tax is due based on your business activity(ies) for the first year of operation.

Contact Person: Jeff Winkler **Title:** Operations Manager

Contact Phone Number [redacted]

I declare, under penalty of perjury under the laws of the State of California, that to the best of my knowledge the foregoing is true, correct and complete.[4]

Signature of Owner or Agent Brad R. Pierce Date 10/11/2010

Print name of Owner or Agent Brad Pierce

Daytime Telephone Number [redacted] Email Address [redacted]

[1] This is the 6-digit Primary / Principal Business or Profession Activity Code reported on your Federal Tax Return. A Secondary business activity is one that comprises at least $1,000,000 and 40% of your gross receipts. Go to lacity.org/finance/pdf/NAICSCODES.pdf for a NAICS code listing.

[2] If your business is located within the City of Los Angeles and a portion of your gross revenue is derived from outside the City, or your business is located outside the City and a portion of your gross revenue is derived from inside the City, then applicable apportionment formulas may reduce your tax liability.

[3] Due to the large number of various business activities described under LAMC Section 21.53 to 21.197, it is not practical to list each separately. For specific activities and rates, contact the Office of Finance or visit our website @ www.lacity.org/finance.

[4] By completing this form and submitting it to the Office of Finance in an electronic format, such as email, you agree that the submitted form has the same legal effect, validity and enforceability of a form submitted to us via US mail or in person. You also agree that the aforementioned form legally represents a document sent by you or your legal representative.

As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodations to ensure equal access to its programs, services, and activities.

Miscellaneous Correspondence Cover Sheet

Account Number: 000246811900027

Legal Name: PACIFIC COAST ENERGY COMPANY LP

Correspondence Id:

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BREITBURN ENERGY COMPANY L.P.", CHANGING ITS NAME FROM "BREITBURN ENERGY COMPANY L.P." TO "PACIFIC COAST ENERGY COMPANY LP", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 1:38 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2011, AT 7 O'CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

3816394 8100

111321572

AUTHENTICATION: 9248108

DATE: 12-21-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:38 PM 12/21/2011
FILED 01:38 PM 12/21/2011
SRV 111321572 - 3816394 FILE

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
BREITBURN ENERGY COMPANY L.P.

Pursuant to Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, as amended, it is hereby certified that:

1. The name of the limited partnership (the "***Partnership***") is BreitBurn Energy Company L.P.

2. The Certificate of Limited Partnership of the Partnership is hereby amended by deleting paragraph 1 and inserting in lieu thereof a new paragraph 1 to read as follows:

1. The name of the limited partnership is:

Pacific Coast Energy Company LP

3. This Certificate of Amendment shall be effective as of 7:00 a.m., EST, December 31, 2011.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment to Certificate of Limited Partnership on this 20th day of December, 2011.

Pacific Coast Energy Company LP

By: BEH (GP) LLC, its general partner

By: /s/ Gregory C. Brown
Gregory C. Brown
Executive Vice President and General Counsel

Dylan Sittig <dylan.sittig@lacity.org>

submission on ZA-1989-17683-PA2 - West Pico Drill Site

Michael Salman <salman@history.ucla.edu> Thu, Apr 22, 2021 at 8:16 AM
To: Theodore Irving <theodore.irving@lacity.org>
Cc: Dylan Sittig <dylan.sittig@lacity.org>, Estineh Mailian <estineh.mailian@lacity.org>, Edber Macedo <edber.macedo@lacity.org>, Terry Kaufmann-Macias <terry.kaufmann-macias@lacity.org>, Jennifer Tobkin <jennifer.tobkin@lacity.org>, Erica Blyther <erica.blyther@lacity.org>

Dear Mr. Irving

Please find attached the following documents submitted for case ZA-1989-17683-PA2 concerning the West Pico Drill Site:

- A letter presenting new evidence of safety violations and numerous illegal City permits (Salman - Letter to ZA 4-22-21)
- Copies of 3 DOGGR Notices of Violation from 2016 for working on wells without a required blowout preventer test
- Copies of LAFD Project Permits that were illegal and are void under City law (2 files)
- A permit list from LADBS showing critical work at 9151 W Pico for the project the 2000 ZA approval authorized only for 9101 W Pico

The attached letter walks you through the documents and their significance in relation to City law and CEQA.

The letter also notes that a large set of LAFD Annual Oil Well Operating Permits will be sent by separate email (or 2 emails if necessary due to data size) after this email. If these documents do not arrive at your office, please let me know. The cumulative data size might exceed the City's email server's allowances.

Thank you

Michael Salman

7 attachments

ZA-1989-17683-PA2 -- Michael Salman letter to Chief ZA on inpection & CEQA 5-25-20.pdf
200K

V116-0543 PCEC Failure to notify for BOPI - WP30.pdf
3650K

V116-0544 PCEC Failure to notify for BOPI WP 29.pdf
3668K

V116-0545 PCEC Failure to notify for BOPI LW-11.pdf
3647K

LAFD Project Permits West Pico PART 1.pdf
778K

LAFD Project Permits West Pico PART 2.pdf
137K

LADBS permit list 9151 Pico - highlighted.pdf
301K

2533 4th Ave
Los Angeles, CA 90018
April 22, 2021

Re: ZA-1989-17683-PA2

Dear Mr. Irving

Substantial new evidence of serious safety violations and a large number of illegal and invalid City permits for oil operations at the West Pico Drill Site have come to light after additional research and Public Records Act requests to CalGEM and City agencies.

The safety violations were serious and careless, reflecting a workplace that is not adequately monitored. Careless work practices that flourish when regulatory oversight takes a holiday or, as in the case of the City, basically does not exist because there are no inspections. In 2016, DOGGR issued three Notices of Violation for failure to have blowout preventers inspected before commencing downhole work on wells (including redrilling and/or well conversion work that did not have the City approvals required by City law). Yes, DOGGR issued the NOVs for violating State regulations, but the City's decades of negligence was a contributing factor, creating a culture of projects without required approvals. Negligence breeds carelessness that can start to flirt with disaster. We all got lucky that time. Documents are attached.

The problem of illegal and invalid City permits – which we have been documenting for you since the start of this case - spurred additional review of the City of Los Angeles's Municipal Code to ascertain all City law on permitting requirements for oil wells and Controlled Drill Sites, and also to ascertain City law (LAMC 11.02, among other sections) and case law on the legal status of permits issued in contravention of City law.

The case file now contains the March 23, 2021 letter from NASEs attorney, Amy Minteer. Her letter reports that the West Pico Drill Site has illegal and invalid Annual Oil Well Operating Permits from the LAFD. In particular, there are 22 wells that have had a total of 24 illegal and unapproved projects executed on them since 2000. There were 2 new wells drilled, 12 wells redrilled, and 10 wells converted. Two wells had two projects executed on them, so the 24 total projects were executed on 22 wells.

In an email immediately following transmission of this letter, I will send you copies of all the LAFD Annual Operating Permits for all of the wells at the West Pico Drill Site, from 2005 to 2020. Those documents will be transmitted by separate email because of the cumulative size of the files. The file names list the common well names (e.g., WP 58, WP 59) so you can match them to the record of well projects that PCEC stipulated to in its June and July communications with your office.

As Ms. Minteer's letter explains, LAMC 13.01.I requires ZA approval before any City permits are issued, so the operating permits for 22 wells since the dates of the illegal projects on the wells are illegal and void permits, as per the Zoning Code.

The LAFD Annual Oil Well Operating Permits (all of them since 2000) are also illegal permits in relation to the City's Fire Code, which requires that wells be in compliance with all laws, ordinances, and regulation in order to received operating permits. The entire drill is out of compliance and egregiously so, as the rest of this letter will show. **But I want to highlight that I am focusing on non-compliance with the Zoning Code (13.01 and 11.02) because that clearly makes this non-compliance the responsibility of the Zoning Administrator and Department of City Planning.**

Ms. Minteer's letter explains that LAMC 11.02 comes into play.

LAMC 11.02, in the Zoning Code, says that "inconsistent permits," which means permits that conflict with City Code, "shall be void." Lest there be any confusion, LAMC 11.01 defines shall as meaning "mandatory," while "may" means permissive. **Thus the Zoning Code declares that these permits are void, and that is the responsibility of the Zoning Administrator and Department of City Planning as well as other City agencies. DCP cannot say it is not their responsibility because these are provisions of the Zoning Code.**

LAMC 11.02 has been tested and sustained in the Supreme Court of the State of California, in *Weiner v. City of Los Angeles***,** (1968) 68 Cal.2d 697. It has been applied in multiple unpublished Superior Court and Appellate Court cases in the years since. It has, to the best of my knowledge, never been challenged. It is, without doubt, still in the Municipal Code and it is the law of the City. The City is in violation of its own law.

The number of illegal and void permits at the West Pico Drill Site is vastly larger and more extensive than *just* the annually renewed Oil Well Operating Permits for 22 wells since their respective illegal projects, and vastly larger than the Operating Permits for all the wells.

Here are some examples:

- The two new wells drilled without ZA approval received LAFD **Project Permits**, copies attached, despite express prohibition against issuing permits for drilling new wells without ZA approval in LAMC 13.01.I
- The 12 redrilling projects received LAFD **Project Permits,** copies attached, despite express prohibition against issuing permits for drilling new wells without ZA approval in LAMC 13.01.I
- The 2000 ZA approval is a permit in the eyes of the California courts and it is a part of all subsequent City permits issued for the drill site because it sets the conditions of those permits and the operating conditions for the drill site, **and the 2000 ZA approval conflicts with the LAMC in at least two major ways:**

    - **First, the 2000 approval conflicts with LAMC 13.01 overall and LAMC 13.01.E.2.b by illegally establishing two drill sites through an improper process in an oil drilling district where the Code allows only one drill site**
        - If anyone argues it does not establish two drill sites, then it removed all land use entitlement necessary for all oil production activities that take place at 9151 W Pico, which become as illegal under this circumstance as they become if the 2000 ZA approval is understood to to create two drill sites.
        - The two halves of the drill site are an integrated whole, inextricably linked to each other. For just two of many examples: SCAQMD and DOGGR/CalGEM permits for the wells physically located at 9101 W Pico bear the address 9151 W Pico; and the oil/gas/water slurry pumped up from wells located at 9101 W Pico is separated at 9151 W Pico and then the water is pumped back to the injection wells at 9101 W Pico.
        - If 9151 W Pico is illegal, then all operation at the entire drill site are illegal.
        - As a permit inconsistent with City Code, the 2000 ZA approval is void and all projects undertaken under its authorization lack land use entitlement.
    - **Second, Condition 72 of the 2000 ZA approval set procedures for redrilling wells that directly clash with LAMC 13.01.H and 13.01.I.**
- After the 2000 ZA approval was made effective to entitle and authorize a modernization project that was supposed to be entirely located at the 9101 W. Pico half of the drill site, the operating company took out a permit from LADBS to install a 34.5 KV Electrical Service Panel at 9151 W Pico to power "drilling" (i.e, the new electric derrick) at 9101 W. Pico. – copy of permit record attached.
- Over the next two decades, all City Permits obtained for projects and operations at 9151 W Pico are illegal and void because that location has no valid land use entitlement due to the 2000 ZA approval
    - The LAFD CUPA Hazardous Materials Permit for 9151 W Pico are void.
    - All LADBS permits for oil processing equipment at 9151 W Pico are void (there are multiple such permits for compressors, microturbines, and additional equipment and related projects).
- All City Permits obtained for 9101 W. Pico are similarly void because they have no land use entitlement due to the 2000 ZA approval being void.
    - There are additional, smaller errors rendering some of these permits void for lesser reasons, but why beat a horse that is dead, mummified, buried, etc.

These are extremely serious matters. The central gist of the problem has been communicated to the ZA's office since Spring 2020. These are just additional details to help you see the depth of the problem.

All of these illegalities are the responsibility of the Zoning Administrator and the Department of City Planning to address because they are all covered by LAMC 11.02 and LAMC 13.01 of the Zoning Code, and also because the 2000 ZA approval itself is void according to LAMC 11.02.

Moreover, all of the illegalities and additional violations which have been documented for you already are also entangled in the Department of City Planning's mishandling of its CEQA duties from the 2000 ZA case to the present.

In the 2000 case, Planning wrongly subjected only half the drill site to review in the EIR. The error was pointed out at the time. And the wrongness of the error was proven when the recipient of the new entitlement promptly began work at 9151 W Pico on a crucial component of the project approved for 9101 W Pico (namely the electric service panel to supply power for operations at 9101 W. Pico). Planning also wrongly and illegally created two drill sites or, if it prefers the alternative reading, Planning canceled all land use entitlement for the oil operations at 9151 W Pico.

When the City entered a Settlement Agreement in 2001, the City agreed to change multiple mitigation measures and mitigation monitoring measures (MMRP). Planning never modified the ZA approval by issuing a new determination or a supplemental determination. That led to more non-compliance by the City and the operating company.

The dismal events just recounted merge into the recent history of Planning violating Condition 78 of the 2000 approval by refusing to "evaluate the efficacy of mitigation measures" and correct them, as needed, in the current review. At the July and August public hearings, the presiding Associate ZA said he would not even consider changing mitigation measures in this current review. That violates Condition 78 of the 2000 approval and the Settlement Agreement, and it violates CEQA. Planning has refused to subject the current case to environmental review, when State law requires that analysis of mitigation measures must be done through the CEQA process. Moreover, the very existence of this current case and all of the mountains of evidence already provided conclusively demonstrates that the mitigation and Mitigation Monitoring provisions of the 2000 ZA approval and EIR have failed in epic fashion.

Illegally taking the current review out of the CEQA process only compounds and perpetuates the cycle of illegality set in motion by the illegal and void ZA approval of 2000. Punting the ZA's responsibility into a future review is wrong for numerous reasons, including that it would constitute illegal piece-mealing to evade proper environmental review under CEQA.

It is time for this to stop. It is time for the problems to be corrected.

Proper Environmental Review. The first and necessary step is to send the case back for proper environmental review under CEQA, and then carefully sort out the void and illegal permits, carefully take stock of the damage that has been done, and then through the CEQA process and proper public hearings develop a just resolution that is legal and serves the ends of good public policy.

Review all the unapproved projects now, which can lead to approving them, denying approval, and/or reparative new conditions. Given that 22 wells have had 24 illegal major projects (drilling, redrilling, conversion) that required ZA approval, public hearings, and CEQA clearance that never happened, those projects must be reviewed now.

Review and approval are different things. Due consideration should be given to the possibility of ordering that those 22 wells must be plugged within a reasonably prompt one or two year time period. Due consideration means weighing all the facts, considering all the options, and then taking proper quasi-judicial action to achieve the most equitable resolution possible.

Idle wells listed by CalGEM should be ordered plugged (definition = 2 or more years with no production/injection), According to CalGEM's records, 10 wells at the drill site have been idle for two or more years. Those 10 wells should certainly be ordered to be plugged in a reasonable period of one year.

Wells that go idle in the future (using CalGEM's definition) should be automatically ordered plugged by a new condition. Given the damage inflicted by illegal operations (environmental damage, damage to the City's law and reputation, damage to the City's regulatory oversight of the oil industry, denial of the public's right to hearings and reviews, breach of the 2001 Settlement Agreement, etc) and given the fact that long term idle wells are contrary to City law and good public policy, a new condition should be written that will automatically require the plugging of any well that in the future goes idle for two years, with the plugging required to happen in the third year.

Were it not for all the violations by the operator and the City, perhaps a more moderate step would be appropriate concerning the currently idle wells and any wells that become idle for two years in the future. But due to the harms inflicted by the violations, the step proposed here is necessary to come close to achieving equity.

All prior requests from myself and from NASE for new and modified conditions should be included and effectuated, including requiring annual inspection by the City Petroleum Administrator, 24/7 emissions monitoring with data reported quarterly to the City, and writing the Settlement Agreement into the Conditions.

Cleaning up the City's own illegal actions is essential to giving the City a stronger hand to enforce compliance in the future and take stronger actions if needed.

All of these major changes must be done through the CEQA process in order to be rock-solid legal. Acting outside the CEQA process is illegal. Not resolving known illegalities is illegal. Piece-mealing is illegal.

Yours,

Michael Salman

LOS ANGELES CITY FIRE DEPARTMENT

Division 5 Permit

F-280

LOCATION INFORMATION

▼ FD USE ONLY ▼

Address:	Dates of Use:	Date Granted:	PERMIT #
West Pico Well # 18 Redrill API # 037-20434 9101 West Pico Blvd. LAFD 2475	2/12/2003 to 8/12/2003	2-13-03 Date Expires: 2-13-04	345-03

Name: BreitBurn Energy Co. LLC Phone: 213-225-5900

City: Los Angeles State: CA Zip: 90035

CONTRACTOR INFORMATION

Name: BreitBurn Energy Co. LLC Phone: 213-225-5900

Address: 515 South Flower Street, Suite 4800

City: Los Angeles State: CA Zip: 90071

Print Name:	Signature:	Title:
Steve Liles		Business Unit Mgr - West LA

PROPERTY OWNER / SPONSORING ORGANIZATION

Name: BreitBurn Energy Co. LLC Phone: 213-225-5900

Address: 515 South Flower Street, Suite 4800

City: Los Angeles State: CA Zip: 90071

Print Name:	Signature:	Title:
Steve Liles		Business Unit Mgr - West LA

* Do Not Write Below This Line *

Inspector Signature:

Date: 2/13/03

Unit: Harbor Industrial

Phone # (310) 732-4580

FIRE MARSHAL

Billing and Accounts receivable/10th Floor Room1070(RevCode#3882)

2/12/03 # 231407 for $1331.00

Harbor

ITEM	Code ID	No	FEE
Complete 5-27-03 JM			
TOTALS ☞			

Signature

**** Check here____ if comments are used on back of this form. ****

LOS ANGELES CITY FIRE DEPARTMENT

Division 5 Permit F-280

LOCATION INFORMATION

▼ FD USE ONLY ▼

Address:	Dates of Use:	Date Granted:	PERMIT #
WEST PICO WELL #21, REDRILL API # 03720554 9101 W. PICO BLVD.	11/27/02 to 2/27/03	11/26/02	105206
		Date Expires: 11/26/03	

Name: BREITBURN ENERGY CO LLC Phone: ~~(310)~~ (213) 225-5900

City: LOS ANGELES State: CA Zip: 90035

CONTRACTOR INFORMATION

Name: BREITBURN ENERGY CO LLC Phone: ~~(310)~~ (213) 225-5900

Address: 515 S. FLOWER ST., SUITE #4800

City: LOS ANGELES State: CA. Zip: 90071

Print Name:	Signature:	Title:
STEVE LILES		BUS. UNIT MANAGER, W.L.A.

PROPERTY OWNER / SPONSORING ORGANIZATION

Name: BREITBURN ENERGY CO LLC. Phone: (213) 225-5900

Address: 515 S. FLOWER ST., SUITE #4800

City: LOS ANGELES State: CA. Zip: 90071

Print Name:	Signature:	Title:
STEVE LILES		BUS. UNIT MANAGER, W.L.A.

* Do Not Write Below This Line *

Inspector Signature:

Date: 11/26/02

Unit: Harbor Industrial

Phone # (310) 732-4580

FIRE MARSHAL

Billing and Accounts receivable 10th Floor Room1070(RevCode#3882)

ITEM	Code ID	No	FEE
Redrill Drill oil well		340	1331.00
Complete 2-14-03			
TOTALS ☞			1,331.00

Paid in full
CK # 230018
$ 1,331.00

Signature

**** Check here____ if comments are used on back of this form. ****

LOS ANGELES CITY FIRE DEPARTMENT

F-280

Division 5 Permit

LAFD 2610

LOCATION INFORMATION

τ FD USE ONLY τ

Address:	Dates of Use:	Date Granted:	PERMIT #
WP #34 RD1 **API # 037-21087** **9101 West Pico Blvd.** **Los Angeles, CA 90035**	**5/1/2010** **12/1/2010**	3/31/10	14012 -10
		Date Expires: 3/30/11	

Name: **BreitBurn Energy Company, LP** Phone: **(213) 271-7560**

City: **Los Angeles** State: **CA** Zip: **90035**

CONTRACTOR INFORMATION

Name: **BreitBurn Energy Company, LP** Phone: **(213) 225-5900**

Address: **515 South Flower Street, Suite 4800**

City: **Los Angeles** State: **CA** Zip: **90071**

Print Name:	Signature:	Title:
Jeff Winkler		**Asset Manager**

PROPERTY OWNER / SPONSORING ORGANIZATION

Name: **BreitBurn Energy Company, LP** Phone: **(213) 225-5900**

Address: **515 South Flower Street, Suite 4800**

City: **Los Angeles** State: **CA** Zip: **90071**

Print Name:	Signature:	Title:
Jeff Winkler		**Asset Manager**

* Do Not Write Below This Line *

Inspector Signature: Jennifer Bosco

Date: 3/31/10

Unit: Harbor Industrial

Phone # (310) 732-4580

FIRE MARSHAL

Jimmy H Lee

Billing and Accounts receivable 10th Floor Room1070(RevCode#3882)

Ck # 253621

PD Harbor

ITEM	Code ID	No	FEE
RG Drill Oil Well	340	1	$1872.00
12/2010 Jennifer Bosco			
TOTALS +			$1872.00

Signature

****** Check here_____ if comments are used on back of this form. ******

LOS ANGELES CITY FIRE DEPARTMENT

Division 5 Permit

F-280

LOCATION INFORMATION

▼FD USE ONLY▼

Address:	Dates of Use:	Date Granted:	PERMIT #
West Pico Well #RW-2 Redrill API # 03721098 9101 West Pico Blvd. LAFD 2621	05/27/2003 to 11/27/2003	5-30-03 Date Expires: 5-30-04	356-03

Name: BreitBurn Energy Co. LLC Phone: 213-225-5900

City: Los Angeles State: CA Zip: 90035

CONTRACTOR INFORMATION

Name: BreitBurn Energy Co. LLC Phone: 213-225-5900

Address: 515 South Flower Street, Suite 4800

City: Los Angeles State: CA Zip: 90071

Print Name:	Signature:	Title:
Chris Williamson	Chris Williamson	Business Unit Manager East LA

PROPERTY OWNER / SPONSORING ORGANIZATION

Name: BreitBurn Energy Co. LLC Phone: 213-225-5900

Address: 515 South Flower Street, Suite 4800

City: Los Angeles State: CA Zip: 90071

Print Name:	Signature:	Title:
Chris Williamson	Chris Williamson	Business Unit Manager East LA

* Do Not Write Below This Line *

Inspector Signature: Jack Mirch

Date: 5/30/03

Unit: Harbor Industrial

Phone # (310) 732-4580

FIRE MARSHAL

Jerry H Hall

Billing and Accounts receivable 10th Floor Room1070(RevCode#3882)

ITEM	Code ID	No	FEE
Redrill	340		
TOTALS ☞			

Paid 1331.00
Check # 233351

Complete
7-10-03
Jack Mirch

Signature Jack Mirch

**** Check here____ if comments are used on back of this form. ****

LOS ANGELES CITY FIRE DEPARTMENT

Division 5 Permit

F-280

LA:D 2665

LOCATION INFORMATION

▼ FD USE ONLY ▼

Address:	Dates of Use:	Date Granted:	PERMIT #
West Pico Well #OW 8 Redrill API # 03721211 9101 West Pico Blvd.	7/10/2003 1/10/2004	7/16/03	364-03
		Date Expires: 7/16/04	

Name: BreitBurn Energy Co. LLC Phone: 213-225-5900

City: Los Angeles State: CA Zip: 90035

CONTRACTOR INFORMATION

Name: BreitBurn Energy Co. LLC Phone: 213-225-5900

Address: 515 South Flower Street, Suite 4800

City: Los Angeles State: CA Zip: 90071

Print Name:	Signature:	Title:
Steve Liles	X	Business Unit Manager West L.A.

PROPERTY OWNER / SPONSORING ORGANIZATION

Name: BreitBurn Energy Co. LLC Phone: 213-225-5900

Address: 515 South Flower Street, Suite 4800

City: Los Angeles State: CA Zip: 90071

Print Name:	Signature:	Title:
Steve Liles	X	Business Unit Manager West L.A.

* Do Not Write Below This Line *

Inspector Signature: Luke Mileckaq

Date: 7/16/04

Unit: Harbor Industrial

Phone # (310) 732-4580

FIRE MARSHAL

Billing and Accounts receivable 10th Floor Room1070(RevCode#3882)

ITEM	Code ID	No	FEE
REDRILL OIL	340	1	1,331.00
WELL			
Complete 4-22-05			
TOTALS ☞			1,331.00

ck # 233883
$ 1,331.00
HARBOR

Signature

**** Check here____ if comments are used on back of this form. ****

LOS ANGELES CITY FIRE DEPARTMENT
Division 5 Permit

F-280

LAFD 26665

LOCATION INFORMATION

▼FD USE ONLY▼

Address:	Dates of Use:	Date Granted:	PERMIT #
West Pico Well #OW8 Redrill API # 037-21211 9101 West Pico Blvd.	03/01/2004 09/01/2004	2/18/04 Date Expires: 2/18/65	5006-04

Name: BreitBurn Energy Co. LLC Phone: 213-225-5900

City: Los Angeles State: CA Zip: 90035

CONTRACTOR INFORMATION

Name: BreitBurn Energy Co. LLC Phone: 213-225-5900

Address: 515 South Flower Street, Suite 4800

City: Los Angeles State: CA Zip: 90071

Print Name:	Signature:	Title:
Chris Williamson	Chris E Williamson	Vice President Operations

PROPERTY OWNER / SPONSORING ORGANIZATION

Name: BreitBurn Energy Co. LLC Phone: 213-225-5900

Address: 515 South Flower Street, Suite 4800

City: Los Angeles State: CA Zip: 90071

Print Name:	Signature:	Title:
Chris Williamson	Chris E Williamson	Vice President Operations

* Do Not Write Below This Line *

Inspector Signature: Justin Wade

Date: 2/18/04

Unit: Harbor Industrial

Phone # (310) 732-4580

FIRE MARSHAL

Jimmy H Deal

Billing and Accounts receivable 10th Floor Room1070(RevCode#3882)

ITEM	Code ID	No	FEE
TOTALS ☞			

Ck 237702 dated 2/10/04
$1331.00
PD Harbor

Signature

**** Check here____ if comments are used on back of this form. ****

LAFD
2666

LOS ANGELES CITY FIRE DEPARTMENT
Division 5 Permit

F-280

LOCATION INFORMATION

▼ FD USE ONLY ▼

Address:	Dates of Use:	Date Granted:	PERMIT #
West Pico Well # PW9 Redrill API # 037-21235 9101 West Pico Blvd.	03/01/2004 09/01/2004	2/18/04 Date Expires: 2/18/05	5005-04

Name: BreitBurn Energy Co. LLC Phone: 213-225-5900

City: Los Angeles State: CA Zip: 90035

CONTRACTOR INFORMATION

Name: BreitBurn Energy Co. LLC Phone: 213-225-5900

Address: 515 South Flower Street, Suite 4800

City: Los Angeles State: CA Zip: 90071

Print Name:	Signature:	Title:
Chris Williamson	Chris E Williamson	Vice President Operations

PROPERTY OWNER / SPONSORING ORGANIZATION

Name: BreitBurn Energy Co. LLC Phone: 213-225-5900

Address: 515 South Flower Street, Suite 4800

City: Los Angeles State: CA Zip: 90071

Print Name:	Signature:	Title:
Chris Williamson	Chris E Williamson	Vice President Operations

* Do Not Write Below This Line *

Inspector Signature: Jim Wilmeth

Date: 2/18/05

Unit: Harbor Industrial

Phone # (310) 732-4580

FIRE MARSHAL

Jimmy H Reid

Billing and Accounts receivable 10th Floor Room1070(RevCode#3882)

ITEM	Code ID	No	FEE
REDRILL OIL WELL COMPLETE 2-18-04	340	1	1331.00
TOTALS ☞			1331.00

Ck # 237703 dated 2/10/04
$ 1331.00
PD Harbor

Signature

**** Check here____ if comments are used on back of this form. ****

LOS ANGELES CITY FIRE DEPARTMENT
Division 5 Permit

F-280

LAFD 2702

LOCATION INFORMATION

▼FD USE ONLY▼

Address:	Dates of Use:	Date Granted:	PERMIT #
West Pico Well # WP41 Redrill API # 037-21324 9101 West Pico Blvd.	6/15/2004 6/14/2005	5/16/04 Date Expires: 5/15/05	5021-04

Name: BreitBurn Energy Co. LLC Phone: 213-225-5900

City: Los Angeles State: CA Zip: 90035

CONTRACTOR INFORMATION

Name: BreitBurn Energy Co. LLC Phone: 213-225-5900

Address: 515 South Flower Street, Suite 4800

City: Los Angeles State: CA Zip: 90071

Print Name:	Signature:	Title:
Chris E. Williamson	Chris E Williamson	Vice President Operations

PROPERTY OWNER / SPONSORING ORGANIZATION

Name: BreitBurn Energy Co. LLC Phone: 213-225-5900

Address: 515 South Flower Street, Suite 4800

City: Los Angeles State: CA Zip: 90071

Print Name:	Signature:	Title:
Chris E. Williamson	Chris E Williamson	Vice President Operations

* Do Not Write Below This Line *

Inspector Signature: Jim Miller

Date: 5/15/04

Unit: Harbor Industrial

Phone # (310) 732-4580

FIRE MARSHAL

Jimmy H Arce

Billing and Accounts receivable 10th Floor Room1070(RevCode#3882)

ITEM	Code ID	No	FEE
REDRILL OIL WELL	340	1	1331.00
TOTALS ☞			1331.00

BREITBURN B 1331.00
DATED 5/10/04
239262

Complete 10-4-04 Jim Miller

Signature

**** Check here____ if comments are used on back of this form. ****

LOS ANGELES CITY FIRE DEPARTMENT

Division 5 Permit

F-280

LAFD 2823

LOCATION INFORMATION

▼ FD USE ONLY ▼

Address:	Dates of Use:	Date Granted:	PERMIT #
West Pico Well # WP45 Redrill API # 037-21996 9101 West Pico Blvd.	7/1/2004 6/30/2005	5/15/04	5022-04
		Date Expires: 5/15/05	

Name: BreitBurn Energy Co. LLC Phone: 213-225-5900

City: Los Angeles State: CA Zip: 90035

CONTRACTOR INFORMATION

Name: BreitBurn Energy Co. LLC Phone: 213-225-5900

Address: 515 South Flower Street, Suite 4800

City: Los Angeles State: CA Zip: 90071

Print Name:	Signature:	Title:
Chris E. Williamson	Chris E. Williamson	Vice President Operations

PROPERTY OWNER / SPONSORING ORGANIZATION

Name: BreitBurn Energy Co. LLC Phone: 213-225-5900

Address: 515 South Flower Street, Suite 4800

City: Los Angeles State: CA Zip: 90071

Print Name:	Signature:	Title:
Chris E. Williamson	Chris E. Williamson	Vice President Operations

* Do Not Write Below This Line *

Inspector Signature: [signature]

Date: 5/15/04

Unit: Harbor Industrial

Phone # (310) 732-4580

FIRE MARSHAL [signature]

Billing and Accounts receivable 10th Floor Room1070(RevCode#3882)

ITEM	Code ID	No	FEE
REDRILL OIL WELL	340	1	1331.00
Complete 1-14-05			
TOTALS ☞			1331.00

BREITBURN $ 1331.00
DATED 5/10/04
CK # 239260

Signature

**** Check here____ if comments are used on back of this form. ****

2824

LOS ANGELES CITY FIRE DEPARTMENT

Division 5 Permit

F-280

LOCATION INFORMATION

▼FD USE ONLY▼

Address:	Dates of Use:	Date Granted:	PERMIT #
West Pico Well # HW10Redrill API # 037-21994 9101 West Pico Blvd.	02/01/2004 08/01/2004	2/18/04	5007-04
		Date Expires: 2/18/05	

Name: BreitBurn Energy Co. LLC Phone: 213-225-5900

City: Los Angeles State: CA Zip: 90035

CONTRACTOR INFORMATION

Name: BreitBurn Energy Co. LLC Phone: 213-225-5900

Address: 515 South Flower Street, Suite 4800

City: Los Angeles State: CA Zip: 90071

Print Name:	Signature:	Title:
Chris Williamson	Chris Williamson	Vice President Operations

PROPERTY OWNER / SPONSORING ORGANIZATION

Name: BreitBurn Energy Co. LLC Phone: 213-225-5900

Address: 515 South Flower Street, Suite 4800

City: Los Angeles State: CA Zip: 90071

Print Name:	Signature:	Title:
Chris Williamson	Chris Williamson	Vice President Operations

* Do Not Write Below This Line *

Inspector Signature: Jack Wilson

Date: 2/18/04

Unit: Harbor Industrial

Phone # (310) 732-4580

FIRE MARSHAL

Jimmy H Deal

Billing and Accounts receivable 10th Floor Room1070(RevCode#3882)

ITEM	Code ID	No	FEE

Ck 237704 dated. 2/10/04
$ 1331.00
PD Harbor -

Complete 2-18-04

TOTALS ☞

Signature

**** Check here____ if comments are used on back of this form. ****

LOS ANGELES CITY FIRE DEPARTMENT

Division 5 Permit

F-280

LAFD 3265

LOCATION INFORMATION

▼ FD USE ONLY ▼

Address:	Dates of Use:	Date Granted:	PERMIT #
West Pico Well #058 Redrill API #037-26615 9151 West Pico Boulevard Los Angeles, CA 90035	12/01/2005 ~~06/30/2005~~ 05/31/2006	3/3/06 Date Expires: 3/3/07	14002-06

Name: BREITBURN ENERGY COMPANY, LP Phone: (213) 225-5900

City: LOS ANGELES State: CA Zip: 90035

CONTRACTOR INFORMATION

Name: BREITBURN ENERGY COMPANY, LP Phone: (213) 225-5900

Address: 515 SOUTH FLOWER STREET, SUITE 4800

City: LOS ANGELES State: CALIFORNIA Zip: 90071

Print Name:	Signature:	Title:
MICHAEL V. TOLBERT	M. V.	SR. PRODUCTION ENGINEER

PROPERTY OWNER / SPONSORING ORGANIZATION

Name: BREITBURN ENERGY COMPANY, LP Phone: (213) 225-5900

Address: 515 SOUTH FLOWER STREET, SUITE 4800

City: LOS ANGELES State: CALIFORNIA Zip: 90071

Print Name:	Signature:	Title:
MICHAEL V. TOLBERT	M. V.	SR. PRODUCTION ENGINEER

* Do Not Write Below This Line *

Inspector Signature:

Date: 3/3/06

Unit: Harbor Industrial

Phone # (310) 732-4580

FIRE MARSHAL

Billing and Accounts receivable 10th Floor Room1070(RevCode#3882)

ITEM	Code ID	No	FEE
Drill Oil Well	340	1	$1397
TOTALS ☞			$1397

Ck # 260001 dated 1/31/06 1397.00 Harbor

Complete 4-17-06

Signature

**** Check here____ if comments are used on back of this form. ****

LOS ANGELES CITY FIRE DEPARTMENT

F-280

Division 5 Permit

LOCATION INFORMATION

τ FD USE ONLY τ

Address:	Dates of Use:	Date Granted:	PERMIT #
WP #59 LAFD 3399 API # 037-27133 9101 West Pico Blvd. Los Angeles, CA 90035	11/1/2010 12/31/2010	10/26/10 Date Expires: 10/26/11	14059-10

Name: **BreitBurn Energy Company, LP** Phone: **(213) 271-7560**

City: **Los Angeles** State: **CA** Zip: **90035**

CONTRACTOR INFORMATION

Name: **BreitBurn Energy Company, LP** Phone: **(213) 225-5900**

Address: **515 South Flower Street, Suite 4800**

City: **Los Angeles** State: **CA** Zip: **90071**

Print Name:	Signature:	Title:
Jeff Winkler		**Operations Manager**

PROPERTY OWNER / SPONSORING ORGANIZATION

Name: **BreitBurn Energy Company, LP** Phone: **(213) 225-5900**

Address: **515 South Flower Street, Suite 4800**

City: **Los Angeles** State: **CA** Zip: **90071**

Print Name:	Signature:	Title:
Jeff Winkler		**Operations Manger**

* Do Not Write Below This Line *

Inspector Signature:

Date: 10/26/10

Unit: Harbor Industrial

Phone # (310) 732-4580

FIRE MARSHAL

Billing and Accounts receivable 10th Floor Room1070(RevCode#3882)

CK # 1008207

$1872

PD Harbor

ITEM	Code ID	No	FEE
Drill Oil Well	340	1	$1872.00
TOTALS +			$1872.00

12/2010

Signature

****** Check here____ if comments are used on back of this form. ******

LOS ANGELES CITY FIRE DEPARTMENT

F-280

Division 5 Permit

LAFD 2395

LOCATION INFORMATION

τ FD USE ONLY τ

Address:	Dates of Use:	Date Granted:	PERMIT #
WP #10 RD1 **API # 037-20073** **9101 West Pico Blvd.** **Los Angeles, CA 90035**	**4/1/2010** **12/1/2010**	3/26/10 Date Expires: 3/25/11	14011-10

Name: **BreitBurn Energy Company, LP** Phone: **(213) 271-7560**

City: **Los Angeles** State: **CA** Zip: **90035**

CONTRACTOR INFORMATION

Name: **BreitBurn Energy Company, LP** Phone: **(213) 225-5900**

Address: **515 South Flower Street, Suite 4800**

City: **Los Angeles** State: **CA** Zip: **90071**

Print Name:	Signature:	Title:
Jeff Winkler		**Asset Manager**

PROPERTY OWNER / SPONSORING ORGANIZATION

Name: **BreitBurn Energy Company, LP** Phone: **(213) 225-5900**

Address: **515 South Flower Street, Suite 4800**

City: **Los Angeles** State: **CA** Zip: **90071**

Print Name:	Signature:	Title:
Jeff Winkler		**Asset Manager**

* Do Not Write Below This Line *

Inspector Signature: J. Q. Bosse

Date: 3/26/10

Unit: Harbor Industrial

Phone # (310) 732-4580

FIRE MARSHAL

Jimmy H Hall

Billing and Accounts receivable 10th Floor Room1070(RevCode#3882)

Ck # 253622

PD Harbor

ITEM	Code ID	No	FEE
Drill Oil Well	340	1	$1872.00

RE V12/2010 Jennifer Bosse

TOTALS +	$1872.00	Signature

****** Check here____ if comments are used on back of this form. ******

LOS ANGELES CITY FIRE DEPARTMENT

Division 5 Permit

P-200

LAFD 2396

LOCATION INFORMATION

▼ FD USE ONLY ▼

Address:	Dates of Use:	Date Granted:	PERMIT #
West Pico Well # WP11 Redrill API # 037-20105 9101 West Pico Blvd.	06/27/2005 12/27/2005	6/27/05 Date Expires: 6/27/06	14043-05

Name: BreitBurn Energy Co. LLC Phone: 213-225-5900

City: Los Angeles State: CA Zip: 90035

CONTRACTOR INFORMATION

Name: BreitBurn Energy Co. LLC Phone: 213-225-5900

Address: 515 South Flower Street, Suite 4800

City: Los Angeles State: CA Zip: 90071

Print Name:	Signature:	Title:
Michael V. Tolbert	M. V. Tolbert	Senior Production Engineer

PROPERTY OWNER / SPONSORING ORGANIZATION

Name: BreitBurn Energy Co. LLC Phone: 213-225-5900

Address: 515 South Flower Street, Suite 4800

City: Los Angeles State: CA Zip: 90071

Print Name:	Signature:	Title:
Michael V. Tolbert	M. V. Tolbert	Senior Production Engineer

▼ Do Not Write Below This Line ▼

Inspector Signature: J. Martin

Date: 6/27/05

Unit: Harbor Industrial

Phone # (310) 732-4580

FIRE MARSHAL

Jimmy H Heil

Billing and Accounts receivable 10th Floor Room1070(RevCode#3882)

ITEM	Code ID	No	FEE
REDRILL OIL WELL			
TOTALS ☞			

PD c/c 248342

Signature

**** Check here____ if comments are used on back of this form. ****

Los Angeles Department of Building and Safety

The information below was found on the following address:

9151 W PICO BLVD

Parcel Profile Report: 1

Permit Information found: 2

9151 W PICO BLVD 90035

Application/Permit #	PC/Job #	Type	Status	Work Description
06016 - 20000 - 09909	B06VN07176	Bldg-Alter/Repair	Permit Finaled 3/5/2007	RE-FRAME (E) OPENINGS ; RE-ROOF, BUILD UP SUPPORTS FOR MECH.
18016 - 10000 - 05580	B18LA03460	Bldg-Alter/Repair	Permit Finaled 12/21/2018	DEMO EXISTING CONCRETE EQUIPMENT PADS TO MAKE ROOM FOR NEW MICROTURBINE C1000 (31.7 KIPS). ADD WALLS TO PROVIDE SEPERATION OF EQUIPMENT. POUR NEW CONCRETE PADS TRAM WALLS METAL STUD. DRY WALL BOTH SIDES FOR 1 HOUR FIRE RATING. ALL WORK CONTAINING WITHIN (E) COMPRESSOR BUILDING.
18016 - 10001 - 05580	B18LA24596	Bldg-Alter/Repair	Permit Finaled 12/5/2018	SUPPPLEMENTAL PERMIT TO 18016-10000-05580 TO RECHECK LOST PLANS. TO ADD STRUCTURAL DETAILS
18016 - 10000 - 36062	B18LA23910	Bldg-Alter/Repair	Application Submittal 11/6/2018	PLANCHECK ONLY. RECHECK FOR LOST PLANS. PERMIT #: 18016-10000-05580.
02041 - 10000 - 05127	E02LA00050	Electrical	Permit Finaled 9/30/2002	NEW 34.5KV SERVICE FOR AN OIL DRILLING EQUIPMENT INCLUDING THE ASSOCIATED LOADS
02041 - 10000 - 09602	--	Electrical	Permit Finaled 9/30/2002	NEW FA SYSTEM AT A OIL DRILLING FACILITY
08041 - 20000 - 12344	X08VN08824	Electrical	Permit Expired 7/23/2010	FIRE SUPPRESSION RELEASING SYSTEM.
13041 - 10000 - 33578	X13LA21592	Electrical	Permit Finaled 2/1/2016	INSTALL RELEASING PANEL FOR LOW PRESSURE CO 2 SYSTEM.
17041 - 10000 - 43687	X17LA20905	Electrical	Permit Finaled 12/7/2017	INSTALL NEW IPGSM COMMUNICATOR
18041 - 10000 - 07321	E18LA00863	Electrical	Permit Finaled 11/20/2018	PLAN CHECK FOR POWER ONLY, SCOPE OF WORK INCLUDES A NEW MICROTURBINE C1000, ELECTRICAL RATINGS: 480V,3PH, 990KW, NEW MOTORA LOADS, AND STEP DOWN TRANSFORMER.
18041 - 10000 - 15488	X18LA07530	Electrical	Permit Finaled 12/26/2018	Conduit only permit(Early Start Permit) for PCIS#18041-10000-07321.
18044 - 10001 - 02168	M18LA05765	HVAC	Permit Finaled 12/19/2018	REPLAN CHECK DUE TO LOST PLANS. ORIGINAL WORK DESCRIPTION: "VENTILATION SYSTEM FOR A NEW NATURAL GAS GENERATOR ROOM IN "COMPRESSOR BUILDING" HOUSING A 5-CELL MICRO TURBINE ELECTRIC GENERATOR."
18044 - 10000 - 02168	M18LA01117	HVAC	PC Info Complete 3/21/2018	VENTILATION SYSTEM FOR A NEW NATURAL GAS GENERATOR ROOM IN "COMPRESSOR BUILDING" HOUSING A 5-CELL MICRO TURBINE ELECTRIC GENERATOR.-PLAN CHECK ONLY- SEE 18044-10001-02168 FOR PERMIT
18042 - 10001 - 04594	M18LA06576	Plumbing	PC Approved 11/2/2018	PLAN CHECK ONLY FOR LOST PLANS. NEW HIGH PRESSURE GAS PIPING AND REGULATOR SERVING NEW NATURAL GAS GENERATOR ROOM IN "COMPRESSOR BUILDING" HOUSING A 5-CELL MICRO TURBINE ELECTRIC GENERATOR FOR PCEC.
18042 - 10000 - 04594	M18LA01125	Plumbing	Permit Finaled 11/21/2018	NEW HIGH PRESSURE GAS PIPING AND REGULATOR SERVING NEW NATURAL GAS GENERATOR ROOM IN "COMPRESSOR BUILDING" HOUSING A 5-CELL MICRO TURBINE ELECTRIC GENERATOR FOR PCEC.
08045 - 30000 - 00342	X08WL07259	Pressure Vessel	Permit Finaled 11/20/2008	REPLACE AIR COMPRESSOR
10045 - 90000 - 00095	--	Pressure Vessel	Permit Finaled 4/22/2010	INSTALLING A NEW COMPRESSOR

9151 W PICO BLVD OIL PRODUC-AREA 90035

Code Enforcement Information: 2

Certificate of Occupancy Information: 0

Retrofit Program Information: 2

State of California • Natural Resources Agency
Edmund G. Brown Jr., *Governor*
Department of Conservation
Division of Oil, Gas, and Geothermal Resources – District 1
5816 Corporate Avenue • Suite 100
Cypress, CA 90630
(714) 816-6847 • FAX (714) 816-6853

NOTICE OF VIOLATION

October 21, 2016

Report # **V116-0543**

Mr. Thomas McCollum, Agent
Pacific Coast Energy Company LP (B6127)
1555 Orcutt Hill Road
Orcutt, CA 93455

Dear Mr. McCollum:

FAILURE TO NOTIFY DIVISION FOR BLOWOUT PREVENTION EQUIPMENT INSPECTION, WELL "WEST PICO" 30 (037-21035), BEVERLY HILLS FIELD

PRC 3236 states, in part: "Any owner or operator, or employee thereof, who refuses to permit the supervisor or the district deputy, or his inspector, to inspect a well, or who willfully hinders or delays the enforcement of the provisions of this chapter, and every person, whether as principal, agent, servant, employee, or otherwise, who violates, fails, neglects, or refuses to comply with any provisions of this chapter, or who fails or neglects, or refuses to furnish and report or record which may be required pursuant to the provisions of this chapter, or who willfully renders a false or fraudulent report, is guilty of a misdemeanor, punishable by a fine of not less than one hundred dollars ($100), nor more than one thousand dollars ($1000), or by imprisonment for not exceeding six months, or by both such fine and imprisonment, for each offense."

On September 6, 2016 permit P116-0230 was issued by the Division to rework (reperforate) well "West Pico" 30. Item 12a on the permit states that the Division is to be notified to: *Inspect the installed blowout prevention equipment prior to commencing downhole operations.*

On October 20, 2016 the Division received a History of Oil or Gas Well, dated 9/21/2016. The document indicates that the rework was completed on the well. However, the Division was not notified to inspect the blowout prevention equipment prior to conducting the downhole operations in violation of permit P116-0230.

Pacific Coast Energy Company LP is in violation of PRC 3236 for failure to notify the Division for inspection of blowout prevention equipment. Pacific Coast Energy Company LP is to immediately instruct its personnel and sub-contractors as to the importance of notifying the Division of all required inspections or re-inspections.

Failure to comply with the laws of California and this Division may result in enforcement action including, but not limited to, issuance of a civil penalty and/or order pursuant to Public Resources Code Sections 3106, 3224, 3235 and 3236.5.

If you have any questions, please contact Barry Irick at (714) 816-6847 or barry.irick@conservation.ca.gov.

Sincerely,

Scott Walker
Area Supervising Engineer

cc: Daniel J. Dudak, District Deputy
Well File
Project File
Los Angeles City Fire Department

State of California • Natural Resources Agency
Edmund G. Brown Jr., *Governor*
Department of Conservation
Division of Oil, Gas, and Geothermal Resources – District 1
5816 Corporate Avenue • Suite 100
Cypress, CA 90630
(714) 816-6847 • FAX (714) 816-6853

NOTICE OF VIOLATION

October 21, 2016

Report # **V116-0544**

Mr. Thomas McCollum, Agent
Pacific Coast Energy Company LP (B6127)
1555 Orcutt Hill Road
Orcutt, CA 93455

Dear Mr. McCollum:

FAILURE TO NOTIFY DIVISION FOR BLOWOUT PREVENTION EQUIPMENT INSPECTION, WELL "WEST PICO" 29 (037-21019), BEVERLY HILLS FIELD

PRC 3236 states, in part: "Any owner or operator, or employee thereof, who refuses to permit the supervisor or the district deputy, or his inspector, to inspect a well, or who willfully hinders or delays the enforcement of the provisions of this chapter, and every person, whether as principal, agent, servant, employee, or otherwise, who violates, fails, neglects, or refuses to comply with any provisions of this chapter, or who fails or neglects, or refuses to furnish and report or record which may be required pursuant to the provisions of this chapter, or who willfully renders a false or fraudulent report, is guilty of a misdemeanor, punishable by a fine of not less than one hundred dollars ($100), nor more than one thousand dollars ($1000), or by imprisonment for not exceeding six months, or by both such fine and imprisonment, for each offense."

On May 3, 2016 permit P116-0116 was issued by the Division to rework (replace upper 450' of casing) well "West Pico" 29. Item 10a on permit states that the Division is to be notified to: *Inspect the installed blowout prevention equipment prior to commencing downhole operations.*

On September 28, 2016 the Division received a History of Oil or Gas Well, dated 8/9/2016. The document indicates that the rework was done on the well, but not completed. However, the Division was not notified to inspect blowout prevention equipment prior to conducting downhole operations in violation of permit P116-0116.

Pacific Coast Energy Company LP is in violation of PRC 3236 for failure to notify the Division for inspection of blowout prevention equipment. Pacific Coast Energy Company LP is to immediately instruct its personnel and sub-contractors as to the importance of notifying the Division of all required inspections or re-inspections.

Failure to comply with the laws of California and this Division may result in enforcement action including, but not limited to, issuance of a civil penalty and/or order pursuant to Public Resources Code Sections 3106, 3224, 3235 and 3236.5.

If you have any questions, please contact Barry Irick at (714) 816-6847 or barry.irick@conservation.ca.gov.

Sincerely,

Scott Walker
Area Supervising Engineer

cc: Daniel J. Dudak, District Deputy
Well File
Project File
Los Angeles City Fire Department

State of California • Natural Resources Agency
Edmund G. Brown Jr., *Governor*
Department of Conservation
Division of Oil, Gas, and Geothermal Resources – District 1
5816 Corporate Avenue • Suite 100
Cypress, CA 90630
(714) 816-6847 • FAX (714) 816-6853

NOTICE OF VIOLATION

October 25, 2016

Report # **V116-0545**

Mr. Thomas McCollum, Agent
Pacific Coast Energy Company LP (B6127)
1555 Orcutt Hill Road
Orcutt, CA 93455

Dear Mr. McCollum:

FAILURE TO NOTIFY DIVISION FOR BLOWOUT PREVENTION EQUIPMENT INSPECTION, WELL "LW" 11 (037-21995), BEVERLY HILLS FIELD

PRC 3236 states, in part: "Any owner or operator, or employee thereof, who refuses to permit the supervisor or the district deputy, or his inspector, to inspect a well, or who willfully hinders or delays the enforcement of the provisions of this chapter, and every person, whether as principal, agent, servant, employee, or otherwise, who violates, fails, neglects, or refuses to comply with any provisions of this chapter, or who fails or neglects, or refuses to furnish and report or record which may be required pursuant to the provisions of this chapter, or who willfully renders a false or fraudulent report, is guilty of a misdemeanor, punishable by a fine of not less than one hundred dollars ($100), nor more than one thousand dollars ($1000), or by imprisonment for not exceeding six months, or by both such fine and imprisonment, for each offense."

On August 5, 2016 permit P116-0200 was issued by the Division to rework (plug back and suspend) well "LW" 11. Item 10a on permit states that the Division is to be notified to: *Inspect the installed blowout prevention equipment prior to commencing downhole operations*.

On October 25, 2016 the Division received a History of Oil or Gas Well, dated 10/19/2016. The document indicates that the rework was done on the well, but not completed. However, the Division was not notified to inspect blowout prevention equipment prior to conducting downhole operations in violation of permit P116-0200.

Pacific Coast Energy Company LP is in violation of PRC 3236 for failure to notify the Division for inspection of blowout prevention equipment. Pacific Coast Energy Company LP is to immediately instruct its personnel and sub-contractors as to the importance of notifying the Division of all required inspections or re-inspections.

Failure to comply with the laws of California and this Division may result in enforcement action including, but not limited to, issuance of a civil penalty and/or order pursuant to Public Resources Code Sections 3106, 3224, 3235 and 3236.5.

If you have any questions, please contact Barry Irick at (714) 816-6847 or barry.irick@conservation.ca.gov.

Sincerely,

Scott Walker
Area Supervising Engineer

cc: Daniel J. Dudak, District Deputy
Well File
Project File
Los Angeles City Fire Department

Hermosa Beach Office
Phone: (310) 798-2400

San Diego Office
Phone: (858) 999-0070
Phone: (619) 940-4522

Chatten-Brown, Carstens & Minteer LLP
2200 Pacific Coast Highway, Suite 318
Hermosa Beach, CA 90254
www.cbcearthlaw.com

Amy Minteer
Email Address:
acm@cbcearthlaw.com
Direct Dial:
310-798-2409

March 23, 2021

Via U.S. Mail and Email
Mr. Ray Uyemura
Director of Systems
City of Los Angeles Office of Finance
7th Fl. MS 178
1200 W 7th St
Los Angeles, CA 90017
ray.uyemura@lacity.org

Mr. Ralph M. Terrazas
Los Angeles Fire Chief
ralph.terrazas@lacity.org

Kristin Crowley
Los Angeles Fire Marshal
kristin.crowley@lacity.org

Re: PRA Request R006330-120320 for West Pico Drill Site; Retention of Oil Permitting Records; and Permit Inspection Fees

Dear Mr. Uyemura, Mr. Terrazas and Ms. Crowley,

On behalf of Neighbors for A Safe Environment (NASE), a California nonprofit corporation seeking to protect neighborhoods from the impacts of oil drilling, we seek to address a partially outstanding Public Records Act (PRA) request from Professor Michael Salman regarding documents relating to permits for oil wells within the City of Los Angeles. We also seek to address the City's record retention policies for these and other related documents, as well as a lack of monitoring of oil drilling activities demonstrated by documents and other information that Professor Salman has received.

Outstanding Public Records Act Request

Professor Salman submitted PRA Request R006330 on December 3, 2020, requesting records pertaining to Los Angeles Fire Departments (LAFD) oil well operating permits for the wells at the West Pico Drill Site that are processed by the Office of Finance for the years spanning 2000 to 2020. This request was submitted to the Office of Finance after Professor Salman spent approximately two months trying to obtain these records from the LAFD. After several requests to LAFD, each supported by additional identifying information to help staff locate the records, LAFD personnel told Professor Salman that the Office of Finance was "the custodian for operational permits" and "the Custodian of Records" for those permits.

The Office of Finance has provided Professor Salman with pdf copies of operating permits for the years 2005-2020. We understand that the Office of Finance digitized records from the start date of 2005, and that paper records for earlier permits may not exist in the Office of Finance. We do not know whether copies of these earlier permits exist in the files of the LAFD, but to the extent they do, we request that any such records held by the LAFD please be produced in response to the several PRA requests that have been filed by Professor Salman.

While the Office of Finance has provided copies of operating permits identified above, it has not yet provided Professor Salman with copies of any communications with LAFD or LADBS or City Planning. It is our understanding that Finance is working with other City information technology agencies to determine if there are electronic records it can recover. If the Office of Finance cannot provide copies of these requested documents from its own files, then we request that the Office of Finance, as the Custodian of Records, please obtain copies from the LAFD Harbor Industrial Unit and from the LADBS and/or City Planning, where these communications originated.

Record Retention for Oil Well Permitting Documents

Professor Salman has received conflicting information from the Office of Finance and LAFD regarding the record retention policies of these departments for documents relating to oil well permits. PRA Request R006330 included a request for all applications, authorizations/rejections communicated by the LAFD and/or LADBS and/or Department of City Planning, communications with the LAFD and/or LADBS and/or City Planning,

communications with the operating oil company, and the permits themselves. There have been inconsistencies in responses to Professor Salman regarding how long the Office of Finance and LAFD retain these documents.

Given that it is unclear how long these documents will be retained under existing department procedures, this letter serves to put the Office of Finance on notice that these records must be retained due to the potential for litigation by NASE addressing oil well operating permits at the West Pico Drill Site. All records (paper, electronic, and on other media) pertaining to LAFD oil well operating permits for the wells at the West Pico Drill Site that are processed by the Office of Finance – including applications, authorizations/rejections communicated by the LAFD and/or LADBS and/or Department of City Planning, communications with the LAFD and/or LADBS and/or City Planning, communications with the operating oil company, and the permits themselves should be retained.

The Zoning Administrator, City Attorney, Petroleum Administrator and other City officials and staff have been advised of the potential for litigation concerning the City's actions and negligence at the West Pico Drill Site (9101 & 9151 W Pico Blvd, Los Angeles, CA 90035) and other similar sites where there has been a pattern and practice of violating City law and CEQA. Please see the attached letter to those City officials and staff, sent on August 24, 2020, in connection with a still open Planning Department case, number ZA-1989-17683-PA2. (Attachment 1.)

Below we set forth additional issues of concern by NASE regarding the City of Los Angeles's failure to monitor, implement, and enforce its own laws governing the operation of oil wells and oil drill sites, as well as the City's violation of the California Environmental Quality Act (CEQA), that are the subjects of potential litigation concerning the West Pico Drill Site and other drill sites within the City.

Renewal of Annual Operating Permits Despite Legal Violations.

LAFD Annual Operating Permits are required for oil wells. (Los Angeles Municipal Code (LAMC) 57.106.6.1, LAMC 57.106.6.3.2.) These Annual Operating Permits are conditioned upon an agreement "to comply with all regulations, laws, or ordinances pertaining thereto." (LAMC 57.105.3.9.1.2.) One such regulation is that: "No person shall drill, deepen or maintain an oil well or convert an oil well from one class to

the other and no permits shall be issued for that use, *until a determination has been made by the Zoning Administrator or Area Planning Commission* pursuant to the procedure prescribed in Subsection H of this section." (LAMC 13.01.I, emphasis added.)

There are currently 57 oil wells at the West Pico Drill Site. As the attached letter to the Zoning Administrator explains, since 2000 there have been 2 new wells drilled, 12 existing wells re-drilled, and 10 wells converted at the West Pico Drill Site, all without application to the Zoning Administrator and therefore without Zoning Administrator approval required by the LAMC and without environmental clearance required by CEQA. All of these wells have been granted LAFD operating permits and annual renewals, despite this failure to comply with City regulations and State law.

Non-compliance with City regulations at oil drill sites is a Citywide problem. For example, the Banning Semi-Controlled Drill Site in Wilmington, established in 2006, has approximately 220 wells and is one of the most troubled sites in the City. There are lengthy records of violations logged by DOGGR/CalGEM and SCAQMD, many of which also violate City law and Zoning Administrator assigned conditions restricting odors, fumes, noise and other nuisances. There have been projects executed without required Zoning Administrator approval, in violation of City regulations. The operator of this site applied for a slew of DOGGR permits to drill new wells in 2019, telling DOGGR that its 2006 Zoning Administrator approval and MND provided local approval and CEQA clearance, failing to disclose that the 2006 approval for drilling new wells was limited to a term of 12 years and expired in August 2018. Despite this, we believe that LAFD Annual Operating Permits for the Banning site in Wilmington are renewed year after year, in violation of the requirement for operator compliance "with all regulations, laws, or ordinances."

In addition to requiring operator compliance "with all regulations, laws, or ordinances," the LAMC also declares that: "Notwithstanding any other provisions of this Code or any other ordinance of the City of Los Angeles, no permit or license shall be issued in violation of any provisions of this Code or any other ordinance of the City of Los Angeles; if any permit or license is issued in violation of any provision of this Code or any other ordinance of the City of Los Angeles the same shall be void. Any permit or license issued, which purports to authorize the doing of any act prohibited by any other provision of this Code or any other ordinance of the City of Los Angeles, *shall be void*." (LAMC 11.02, emphasis added; LAMC 11.01 ["'Shall' is mandatory"].) To the extent

Annual Operating Permits were issued for unapproved or unlawfully approved projects or were issued or renewed despite violations of City regulations, they must be considered void.

Failure to Expend Permitting Renewal Fees for Intended Purpose

The violations of City and State law referenced above and the long history of non-compliance by the operators of the West Pico Drill Site and Banning Semi-Controlled Drill Site in Wilmington is traceable to the City's failure and refusal to do general compliance inspections and enforce its own laws.

The LAFD Annual Operating Permits are issued after a fee is paid, and a fee is required each year for the renewal of the LAFD Annual Operating Permits. These fees were established and are imposed by the City to cover the cost of annual compliance inspections for each drill site in the City. In fiscal year 2020-21, the permit fee was $1,290. For next year, the LAFD has requested and the City Council has agreed to increase the fee to $1,670. This is a cost per permit, and each oil well requires its own permit. The permit cost is calculated to pay for five "inspector hours" per oil well. (See Report from Board of Fire Commissioners," November 18, 2020 https://clkrep.lacity.org/onlinedocs/2020/20-1501_rpt_FC_11-18-2020.pdf, incorporated by reference.) The permit fee is expressly earmarked to pay for oil well inspections, and the permit is conditioned on compliance "with all regulations, laws, or ordinances."

These permitting fees result in significant revenue for the LAFD. There are approximately 1,100 oil wells in the City, so in 2020-21 more than $1.4 million was collected in operating permit fees. With the recently approved fee increase, next year the City will collect $1.8 million to pay for inspections. The West Pico Drill Site has 57 oil wells. In fiscal year 2020-21, $73,530 was collected in permit fees at this one drill site to cover the cost of compliance inspections. The Banning Semi-Controlled Drill Site in Wilmington has approximately 220 wells. In 2020-21, $283,000 of fees earmarked for LAFD compliance inspections of the wells was collected for the operating permits at this site.

Despite collecting significant annual renewal fees to cover the cost of compliance inspections for each oil well in the City, Professor Salman has been informed by LAFD that compliance inspections of each site have no connection to permit renewal. These renewals are approved automatically upon payment of the fee without any reference to

what might be found during inspections, as a matter of standard operating procedure. Indeed, LAFD operating permits have been renewed when there were open and unresolved Notices of Violation from the LAFD itself. Additionally, it is our understanding that the LAFD inspections that are performed look only for Fire Code violations and do not crosscheck approvals from the Zoning Administrator nor permitting and Notices of Violation from any other agency. Thus, when renewing the permits, LAFD has not verified operator compliance "with all regulations, laws, or ordinances."

Failing to expend permitting fees in the manner they were intended, to fund annual compliance inspections, appears to be a major contributing factor to the numerous drill site violations noted above and in the attached letter. Allowing non-compliance with City law by failing to inspect for non-compliance appears to be a continuing pattern and practice. This failure to perform fully-funded annual compliance inspections is particularly alarming given the potential dangers presented by poorly run and poorly regulated oil well operations that have been a subject of major concern in the City for years.

Conclusion

We look forward to your prompt response regarding the outstanding Public Records Act request by Professor Salman. NASE also urges you to carefully consider the legal issues and community concerns we have outlined above. Thank you for your time and consideration in this matter.

Sincerely,

Amy Minteer

Enclosure

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August 24, 2020

Via U.S. Mail and Email (dylan.sittig@lacity.org, theodore.irving@lacity.org)

Associate Zoning Administrator
Theodore Irving
c/o Dylan Sittig, City Planning Associate
200 N. Spring St, Room 720
Los Angeles, CA 90012

Re: ZA-1989-17683-PA2; Need for Comprehensive Review of Conditions at the West Pico Drill Site (9101 & 9151 W Pico Blvd, Los Angeles, CA 90035) to Address Numerous Legal Violations and Community Impacts

Dear Mr. Irving,

On behalf of Neighbors for A Safe Environment (NASE), a California nonprofit corporation, we seek to address ongoing and emerging legal violations at the West Pico Drill Site (9101 & 9151 West Pico Blvd, Council District 5) that have led to a failure to provide necessary protections to the community surrounding this drill site. NASE has extensively communicated with the Zoning Administrator (ZA) and documented the bases of its concerns. NASE has also cooperated with the operator of the West Pico Drill Site, the Pacific Coast Energy Company (PCEC), and together with PCEC presented a set of practical solutions to the ZA. We urge the City to implement the reasonable and viable remedies we have previously presented and which are outlined below.

Unfortunately, thus far, the City has failed to act on the remedies NASE has proposed, including NASE's request for a Review of Conditions as per the procedures required by the 2001 Settlement Agreement between NASE, the City and the West Pico Drill Site operator and Condition 78 of the 2000 approval in ZA-1989-17683-PAD. Additionally, despite clear requirements in the City's Municipal Code and ZA Memo 133 for discretionary approval supported by environmental review for any oil well drilling, redrilling or conversion project, the City persists in relying on inapplicable categorical exemptions from the California Environmental Quality Act (CEQA) for approvals. Thus far, the City has also refused to impose

necessary modification of conditions to correct a great many ongoing violations of CEQA and City law by the City, as well as by the current and prior site operators.

NASE has retained our firm to make another effort to convince the City to bring its own practices of land use regulation and petroleum administration into compliance with the 2001 Settlement Agreement, CEQA, and City law. This letter outlines the remedies that would achieve those simple goals and provide necessary protection for the surrounding community. It also gives the City notice that if persistent violations are not rectified, NASE is prepared to seek legal remedies to require compliance with the Settlement Agreement and enforce CEQA and City law. We hope that the City will prefer to open discussion about a reasonable set of remedies.

A. NASE Urges the City to Adopt Remedies to Address Legal Violations and Impacts to the Community.

From its initial communication with the Chief ZA in November 2019 up until now, NASE has asked for only modest and eminently viable remedies to alleviate impacts to the community and ensure compliance with the law. NASE has requested that ZA-1989-17683-PA2 be a Review of Conditions, as mandated by the 2001 Settlement Agreement and Condition 78 of the 2000 approval in ZA-1989-17683-PAD. Pursuant to the 2001 Settlement Agreement and Condition 78, the review must:

- examine the West Pico Drill Site's compliance with conditions of approval;
- assess "neighborhood impacts;" and
- evaluate the "efficacy of mitigation measures," with modification of the mitigation measures and/or corrective measures "if warranted."

As set forth herein, this Review of Conditions must be comprehensive, legally compliant and must impose new conditions to address ongoing violations and impacts and correct significant errors in the 2000 approval for the West Pico Drill Site.

1. The Review of Conditions Must Include a Comprehensive Compliance Inspection.

The Review of Conditions for the West Pico Drill Site needs to be prefaced by a Comprehensive Compliance Inspection led by the Office of the Petroleum Administrator. This Review of Conditions should follow the example of the one and only Comprehensive Compliance Inspection of an oil drill site ever conducted by the City—the Rancho Park Drill Site inspection conducted in March/April 2017. Only a full inspection by a qualified professional can fully define the scope of the project in the current review. Thus, the inspection is necessary to

inform compliance with conditions of approval, CEQA clearance and, by the same measure, inform the ZA and the public regarding corrective measures that should be required.

2. The City Must Comply with ZA Memo 133 in its Review of Conditions By Requiring CEQA Review for the Projects on the Drill Site.

The Review of Conditions for the West Pico Drill Site must be compliant with CEQA and with the City's own guidelines in ZA Memo 133. It has been established beyond the shadow of a doubt that mitigation measures from the 2000 approval and its associated EIR have failed to protect the community. Odor complaints from the community are well document and are matched by testimony from Council Member Paul Koretz. The Los Angeles Fire Department also imposed citations on the operators of the West Pico Drill Site for leaving petroleum exposed on surfaces in 2017 and 2018.

Multiple conditions from the 2000 approval have been violated, and the City has failed to enforce mitigation measures established through the associated EIR. Conditions 46, 47, 53, 57, 61, 72, and 78 (concerning odors, nuisance, good oil field practices, redrilling, and reviews of conditions) have all been violated. "Mitigating conditions are not mere expressions of hope." (*Lincoln Place Tenants Ass'n v. City of Los Angeles* (2005) 130 Cal.App.4th 1491, 1508.) CEQA requires mitigation measures to be concrete and enforceable. (Pub. Resources Code § 21081.6(b).) From at least 2006 to the present the ZA and the City have failed to monitor or enforce these conditions in violation of CEQA.

In addition to those ongoing CEQA violations by the City, PCEC has stepped forward to do honest research on projects executed at the site since 2000. PCEC agrees with NASE that there have been 25 unapproved projects, including 24 projects on oil wells that require discretionary review by the ZA according to City code, and thus CEQA clearance by State law. ZA Memo 133 directly states that proposals to drill, redrill, or convert wells are ineligible for categorical exemptions under CEQA. The 25 unapproved projects and the obvious need to revise mitigation measures makes reliance on categorical exemptions utterly improper. An Initial Study and an MND are required, at minimum, and that is what NASE requests.

3. The Continuing Impacts to the Community Demonstrate a Need to Impose New Conditions Through the Review of Conditions.

The ongoing impacts to the community surrounding the West Pico Drill Site, and the numerous violations of existing conditions of approval, demonstrate a clear need to impose new conditions through the Review of Conditions process to prevent these problems from continuing.

Based on NASE's familiarity with the impacts to the community and the existing conditions, it is our position (supported by PCEC) that the following new conditions must be adopted:

- Annual Compliance Inspections led or overseen by qualified professional staff in the Office of the Petroleum Administrator.

- Permanent 24/7 Emissions Monitoring, with recorded data that is reported to the Petroleum Administrator, the ZA, and the public on a quarterly basis.

- Incorporation of the requirement of cyclical Five Year Reviews of Conditions from the 2001 Settlement Agreement into the ZA conditions for the site, using the full procedures delineated in Condition 78 of the 2000 approval as per the Settlement Agreement.

- Immediate Emergency and Accident Reporting to the City (to LAFD, the Petroleum Administrator, and the local Council office) for any emergency or accident that must be reported to any Federal, State, or regional agency.

The need for additional conditions may be identified through the comprehensive compliance inspection as well.

4. The Review of Conditions Must Correct Several Errors from the 2000 Approval.

The Review of Conditions for the West Pico Drill Site must also correct significant errors from the 2000 approval that are inconsistent with City law, the actual record of approvals for the site, and the facts of what actually exists at the site. Those errors include:

- **Delete Condition 72 to Eliminate its Contradiction with LAMC 13.01.H and 13.01I.** This condition addressing "redrilling" directly contradicts the provisions of Los Angeles Municipal Code sections 13.01.H and 13.01.I. Both of these sections require discretionary approval by the ZA before any oil well is drilled, redrilled, or converted between producer and injection well. The contradiction may have contributed to the rash of unapproved projects at the site since 2000, including the redrilling of 12 wells since 2000 without ZA review, approval, or CEQA clearance. Condition 72's undermining of LAMC 13.01.H and 13.01.I on drilling and redrilling wells may have also contributed to the conversion of 10 wells since 2000 without ZA review, approval, or CEQA clearance per the requirements of ZA Memo 133.

- **Correct the Number of Existing Wells.** The 2000 ZA approval for the West Pico Drill Site incorrectly asserts that 69 wells existed at the site in 2000 and that 69 wells had been approved. Only 59 wells currently exist at the site, and only 57 existed in 2000. Only 57 wells have been approved for the site by the ZA. The ZA's error in 2000 reflected a lack of knowledge about the drill site, a lack of knowledge about the difference between a well cellar and a well, and a failure to cross-check with State records from DOGGR (now CalGEM) even as the ZA wrote conditions requiring that all monitoring agencies need to be consulted. This error may have contributed to the drilling of unapproved wells without CEQA clearance in 2005 and 2010.

- **West Pico Drill Site Includes Both 9101 and 9151 West Pico Blvd as a Single Controlled Drill Site.** The 2000 approval improperly split the single integrated "Controlled Drill Site" into two sites because the operator in 2000 proposed a construction project that would occur on only one half of the site. This error runs afoul of LAMC 13.01, especially 13.01.E.2.b. A Controlled Drill Site is the only kind of conditionally approved land use on which oil can be produced from wells and processed for sale. Only one Controlled Drill Site can exist in Oil Drilling District U-131, and only one has ever been approved: namely the West Pico Drill Site, approved in ZA-1965-17683. The ZA severed the unified Controlled Drill Site into two in 2000, leaving both without a legally sustainable basis for operation. This error also may have contributed to the improper installation of microturbines by obscuring the prohibition against electric generation on the Controlled Drill Site or anywhere in the Oil Drilling District that was written into the 1965 approval to establish the Controlled Drill Site. The 2000 approval, which completely rewrote and supplanted the 1965 approval, also prohibits electric generation at the West Pico Drill Site. By improperly splitting the Controlled Drill Site in two, the 2000 approval left the other half of the Controlled Drill Site without any approval or conditions in place.

B. These Remedies Are Necessitated by the Ongoing and Potential Legal Violations.

NASE has chosen to focus on remedies in this communication in a continuing effort to achieve relief for the community and legal compliance by the City. However, the description of the remedies, above, should provide you with an indication of some of the legal violations we may seek to challenge in court, if necessary. These include:

- Ongoing violations of CEQA for the City's failure to enforce mitigation measures from the EIR associated with the 2000 approval for the West Pico Drill Site.

- Failure to require CEQA review for discretionary, and recently discovered, well drilling, redrilling and conversion projects at the West Pico Drill Site.

- The proposed improper reliance on categorical exemptions for the current review of the West Pico Drill Site.

- Failure to enforce LAMC 13.01.H and 13.01.I by allowing operation of 25 unapproved oil well projects on the West Pico Drill Site.

- Violated LAMC 13.01.E.2.b by dividing the Controlled Drill Site into two sites in 2000.

- Breach of the 2000 Settlement Agreement due to the City's failure to conduct the required five-year reviews for the West Pico Drill Site for at least the last 10 years. No legally required reviews have been held during Councilmember Koretz's term in the City Council until NASE demanded this review in November 2019.

- The current ZA review process also appears to be running afoul of the requirements of the 2000 Settlement Agreement, CEQA and City regulations due to its improperly narrow focus and the ZA's stated position that the process would not result in the modification of any conditions.

Conclusion

The problems at the West Pico Drill Site are not isolated incidents and they are not unknown to City officials. The City has been negligent in its land use-based regulation of oil drill sites, failing to protect the communities impacted by these drill sites. It has never performed regular inspections to monitor for compliance with ZA-assigned conditions, and so mitigation measures routinely are not followed and not enforced. Similarly, the City continues to engage in a pattern and practice of handing out categorical exemptions from CEQA review for oil projects, contrary to the requirements of CEQA, ZA Memo 133 and LAMC 13.01.H and 13.01.I. Taken together, this pattern of negligence gives a green light to unapproved projects and turns a blind eye to poor work practices, all at the expense of communities the City is supposed to protect.

Most confounding here is the City's refusal to address environmental, health, and safety protections when an operating oil company comes forward to join with the community in asking the City to implement CEQA properly and to do inspections, require emissions monitoring, and perform serious reviews. This situation must be remedied. It is NASE's hope that the current ZA process can be revised to begin to address these ongoing issues, but if not, we are prepared to pursue available legal options.

Thank you for your time and consideration in this matter.

Sincerely,

Amy Minteer

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ZA-1989-17683-PA2-1A

EXHIBIT G

2005 Health Risk Assessment

Human Health Risk Assessment Report

BreitBurn Drill Site
Los Angeles, California

Prepared for:

Neighbors for a Safe Environment
P.O. Box 67712
Los Angeles, California 90067

November 2005

Project No. 11101

Geomatrix

Geomatrix

November 18, 2005
Project No. 11101

Dr. Rae Drazin
Neighbors for a Safe Environment
P.O. Box 67712
Los Angels, California 90067

Subject: Health Risk Assessment Report
BreitBurn Drill Site
Los Angeles, California

Dear Dr. Drazin:

As outlined in our Scope of Services, Geomatrix Consultants, Inc. (Geomatrix) is pleased to present the final health risk assessment report for the BreitBurn Drill Site in Los Angeles, California.

We appreciate this opportunity to provide consulting services to Neighbors for a Safe Environment.

Sincerely yours,
GEOMATRIX CONSULTANTS, INC.

Ann M. Holbrow
Senior Toxicologist

James W. Embree, Ph.D., DABT
Principal Toxicologist

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Enclosure: Health Risk Assessment Report

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Human Health Risk Assessment Report

BreitBurn Drill Site
Los Angeles, California

Prepared for:

Neighbors for a Safe Environment

P.O. Box 67712
Los Angeles, California 90067

Prepared by:

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November 2005

Project No. 11101

Geomatrix

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HEALTH RISK ASSESSMENT REPORT
BreitBurn Drill Site
Los Angeles, California

1.0 INTRODUCTION

On behalf of Neighbors for a Safe Environment (NASE), Geomatrix Consultants, Inc. (Geomatrix) has prepared this health risk assessment for air emissions from operations at the BreitBurn Oil Company (BreitBurn) drill site (the drill site) at the corner of West Pico Boulevard and South Doheny Drive in Los Angeles, California (Figure 1). This health risk assessment provides an evaluation of results of air quality sampling conducted at and near the drill site in 2004 and 2005 (Geomatrix, 2005). The approach for conducting the air quality sampling and health risk assessment were outlined in the settlement agreement between NASE and BreitBurn dated June 8, 2001, which provided a general approach for conducting the work, and the *Sampling and Analysis Plan and Human Health Risk Assessment Work Plan* (Geomatrix, 2004), which provided a detailed methodology for collecting air quality samples and conducting the health risk assessment.

The objective of this project was to collect air quality data that reflect emissions of chemicals during operations at the drill site (excluding concentrations of chemicals associated with background conditions) and to quantify potential exposure to these chemicals by residents and industrial/commercial receptors in the vicinity. Three principal activity modes were evaluated: well-pulling/maintenance, drilling/redrilling, and idle. The latter category reflects potential emissions associated with oil and gas extraction (e.g., pumping of crude oil) in the absence of drilling activities. Samples were collected from on-site sources and at off-site locations in the neighborhood immediately upwind and downwind during all three activity modes to identify and quantify chemicals emitted and potential off-site impacts. The data collected was used in this quantitative HRA to assess the potential for short-term and long-term health effects associated with emissions from the drill site. Potential human health risk was evaluated separately for the emission measurements and the ambient air measurements.

This report provides detailed information regarding site background, data evaluation, exposure assessment, toxicity assessment, and risk characterization.

2.0 SITE BACKGROUND

Much of the information in this section is based on descriptions provided by BreitBurn and obtained during site visits conducted by representatives of Geomatrix. The drill site is an oil drilling and producing facility that was originally constructed by Occidental Petroleum Corporation in 1965. Fifty-nine of 69 wells authorized by the City of Los Angeles and reaching into the oil-production zone have been completed or abandoned. The remaining 10 wells have been drilled to a depth sufficient to allow cementing in place of the first casing, conductor pipe. The drill site currently extracts approximately 700 barrels of oil and 1,200,000 cubic feet of natural gas per day on a 24-hour, 7-day per week operating schedule.

2.1 SITE CONFIGURATION

The drill site consists of a support building, a movable catwalk building surrounding and attached to the derrick (drilling tower), a drilling mud processing building, two well cellars that contain the 69 wellheads, and incidental equipment and ancillary structures (Figure 2). The drill site houses a permanent, mobile, electrically-powered derrick approximately 23 feet on each side, 128 feet tall and enclosed within an architectural structure. The ground surface of the drill site is covered in concrete or asphalt at or near grade. Most permanent equipment is below grade in well cellars or located inside enclosed structures. Where buildings do not create a boundary, the drill site is surrounded by 25-foot walls intended to provide noise control and visual screening.

2.2 OPERATIONS

The derrick is used for the two general types of operations routinely conducted at the drill site: well maintenance (which usually includes pipe-pulling) and drilling/redrilling operations. BreitBurn normally engages in each of these activities for several months per year (i.e., 2 to 6 months each); the derrick is not used during the remaining time. Well maintenance consists of lifting pipe from the well in sections, stacking the sections vertically within the derrick, repairing the well or its equipment, and then lowering these sections back into the well. Pipe-pulling activities typically occur over several hours to a few days and usually continue on a 24-hour-per-day basis. Drilling/redrilling operations consist of drilling a new hole and/or using the upper portions of an existing well for slant drilling a new portion of the well in the production zone. Drilling/redrilling operations typically occur 24 hours per day and may last for several days to more than one month at a time.

When the drill rig is in use and at nearly all other times, there is, by design, an updraft of air in the tower. There are three fans on top of the derrick creating this updraft: one pulls air from the rig floor, one pulls air from the mud house, and one is a swing fan that can pull air from either source but not both at the same time. In addition, fans in the supply building and purge air fans (bringing in outside air) contribute to the updraft in the derrick tower. This updraft sweeps chemical vapors being released by drilling/redrilling or pipe-pulling activities into the tower air and out the top of the structure.

When drilling a well, mud – a water-based slurry of clay type materials – is pumped into the well for several reasons, including lubrication, debris removal, and occasionally to power the drill rotation. During drilling, mud constantly flows out of the well carrying the drilling debris (shavings). The mud is transported in pipes to the mud house where the shavings are separated from the mud, which is then reused. During the separation process using shakers and screens, crude oil in the mud can release petroleum-based vapors. Fans mounted in the mud house move sweep air through the mud house to capture these vapors and move them into a large duct that runs several hundred feet to nearly the top of the inside of the drilling tower where it vents to the atmosphere. There is an additional induced draft (ID) fan near the top of the tower to help draw the vent air through the duct work. The ID fans in the derrick are always on (even during idle periods). No mud is pumped during well maintenance operations or during idle periods.

The well heads are located in two cellars, each configured as a long, narrow, recessed corridor. In these cellars, there may be small amounts of standing crude oil or oily water and oil present on well heads and pipes more or less at all times. These cellars were identified as a source of fugitive emissions.

Other activities at the drill site include truck deliveries to the support building and cleaning operations. The diesel engine exhaust from truck deliveries was also considered as a source of chemical emissions and was included as another source to be quantified. In addition, diesel engines are used in the supply building intermittently to power a pumping system.

For the purpose of estimating off-site air concentrations, BreitBurn personnel provided a projection of drilling and maintenance activities for the next 30 years. The percentages are based on a total possible operation period of 365 days per year. As shown in Table 1, projected conditions in 2005 represent the maximum duration of these activities in total. Idle conditions (e.g., emissions from well cellars and diesel engines) were assumed to exist as a baseline for 24 hours per day for 365 days per years in addition to emissions from any drilling or maintenance

activities. In accord with the applicable air toxics risk assessment methodology (e.g., AB2588 Toxic Hotspots regulations, OEHHA, 2003), current operations were presumed to continue unchanged over time for the purpose of calculating risk.

3.0 DATA EVALUATION

Data evaluation is the process of analyzing site characteristics and analytical data to identify chemicals of potential concern (COPCs) to be evaluated in the HRA. This section of the risk assessment summarizes emission source and ambient air measurements and provides a summary of all COPCs identified at the site. The *Air Quality Sampling Report* (Sampling Report, Geomatrix, 2005) provides a detailed summary of data collection methods and results.

3.1 CHEMICAL CHARACTERIZATION

Air samples were collected at on-site source locations and off-site ambient air locations and analyzed for volatile organic chemicals (VOCs) using EPA Method TO-15. In addition, the lab was instructed to report the ten tentatively identified compounds (TICs) with the highest detected concentrations.

3.2 CHEMICALS OF POTENTIAL CONCERN

For ambient air samples, chemicals also detected in at least one BreitBurn source sample were identified as chemicals of potential concern (COPCs). Chemicals detected in at least one source sample and chemicals that are major constituents of diesel exhaust, quantified using emission factors developed by the California Air Resources Board (CARB) as described in the Sampling Report, were included as COPCs. For ambient air samples, chemicals also detected in at least one BreitBurn source sample were identified as chemicals of potential concern (COPCs). This approach is designed to be conservative and does not necessarily mean that the concentration measured is related to emissions from the BreitBurn drill site. Chemicals detected at ambient off-site locations, but not detected in facility emissions, were not considered COPCs.

Twenty-six COPCs were detected in facility emissions, 20 of which are petroleum hydrocarbons known to be found in crude oil and/or natural gas. Concentrations of six non-petroleum related hydrocarbons (acetone, carbon disulfide, 2-propanol, tetrachloroethene, tetrahydrofuran, and trichloroethene) were measured at one or more of the sources at the drill site. Concentrations of carbon disulfide, tetrahydrofuran, and trichloroethylene were not measured in ambient air samples. Measured source concentrations of acetone and tetrachloroethylene, in general, seemed higher on average than measured ambient air

concentrations. Similarly, concentrations of 2-propanol seemed slightly higher than ambient air concentrations, but this observation is not conclusive. To be conservative, all chemicals detected at drill site sources were retained in this analysis although some of these chemicals are not reportedly used at the drill site. In calculating risk, concentrations of COPCs representative of "background" concentrations in ambient air were subtracted from measured concentrations at the sources to eliminate the potential for evaluating background concentrations of chemicals entering the drill site as part of facility emissions. Based on the CARB emission factors, five major constituents of diesel exhaust were also included as COPCs. The COPCs identified in the Sampling Report and evaluated in this HRA are presented in Table 2.

4.0 EXPOSURE ASSESSMENT

Exposure assessment is the process of describing, measuring or estimating the intensity, frequency, and duration of potential human exposure to chemicals of potential concern (COPCs) in environmental media (e.g., soil, water and air) at a site. This evaluation focuses on potential inhalation exposure to chemicals emitted from the drill site for nearby commercial and residential receptors. Two separate approaches to exposure assessment were conducted in this HRA. Potential long-term exposure was evaluated based on the emission measurements at the sources, and potential short-term exposure was evaluated based on the ambient air measurements in the vicinity of BreitBurn. Since ambient air measurements reflect conditions over a short time span (i.e., hours), they can not be construed as representing a reasonable estimate of long-term exposure potential. Sections 4.1 and 4.2 describe further the process of estimating exposure for short-term and long-term exposures, respectively.

4.1 AMBIENT AIR MEASUREMENTS

Ambient air measurements were reviewed to identify chemicals that also were detected in emissions from the facility (facility-specific chemicals). A total of 19 chemicals were detected in ambient air and also were measured in facility emissions; however, this does not mean necessarily that the drill site is the source of the measured concentration. The measured air concentration was compared to acute noncarcinogenic health criteria (Section 5.0) to assess potential acute human health risks. Ambient air measurements are presented in Table 3.

4.2 EMISSION MEASUREMENTS AND AIR DISPERSION MODELING

Estimates of potential human health risks associated with measured chemical emissions were evaluated using methodology consistent with guidelines published by the Office of Environmental Human Health Assessment (OEHHA, 2003) for evaluating air toxics in California.

Emission estimates and source characteristics were based on measurements collected during idle conditions and during well drilling and maintenance activities or reflect reported diesel engine use at the facility.

4.2.1 Source Characterization

Emissions of COPCs from three source locations are evaluated in this assessment: the drill rig tower, the well cellars, and the supply building vent (diesel emissions). This section also describes how the sources were characterized for the purpose of air dispersion modeling. Table 4 summarizes source characteristics, and Figure 2 shows the locations used in the modeling.

Emissions from drill rig operations (drilling and maintenance) and the mud house (drilling only) are vented through the drilling tower. The top of the drilling tower is approximately 128 feet above grade. The surface area of the emission source at the top of the drilling tower is approximately 50 square meters (m^2) and emissions from the tower flow through the entire surface. The average measured flow rate from the tower was 30 cubic meters per second. The tower was modeled as a point source. The tower diameter used in the model was derived using the cross-sectional area of the tower and assuming a point source with the same area. The drilling tower is mobile and can be slowly moved along railroad-like rails in order to access all wellheads. It can move east-west along each well cellar; the north cellar is 144 feet long and the south cellar is approximately 100 feet long. The drilling tower can also move north-south approximately 30 feet to move between the two well cellars. For the purpose of modeling, the drilling tower source was placed approximately in the center of the possible locations since movement of the drilling tower is not predictable. By placing the tower in the center of the possible locations, it was intended to reflect the long-term average location.

The well cellars are two elongated trenches about ten feet deep, in which the production wells are located. A small thermal updraft from each of the well cellars was measured with tracer gas flows. This updraft will carry emissions from the oily water, standing crude oil, or fugitive leaks from the well heads out of the cellars into the open air in the drilling yard. The emissions from the well cellars were modeled as six point sources of equal size; the total cross-sectional area of the modeled sources was approximately equal to the area of the well cellars. The release height was set equal to the outer wall height (25 feet) since emissions would need to clear the wall before dispersing off site. The well cellars were set up as point sources so that potential building downwash related to these sources would be accounted for. The flow rate was set to 0.1 m/s to represent negligible vertical velocity and then converted to volumetric

flow rate based on the source diameter. This volumetric flow rate was similar to measurements reported in the Sampling Report. These sources were modeled in a separate model run from the tower model run so that stack-tip downwash algorithms were not incorporated into the model (as was necessary for the tower emissions) since the cellars are not truly discrete stacks.

At certain times, especially during drilling, there may be diesel-powered truck activity to and from the BreitBurn site with continued main or auxiliary engine operation inside the support building. Some of these emissions are collected directly from the exhaust pipe of the engine through a vapor capture system and blown horizontally out of the south side of the supply building through a set of louvers approximately 30 to 40 feet above grade. The louvers are approximately 10 feet wide and 8 feet high. Other diesel exhaust would have been released within the supply building. General air from this building, including the exhaust fumes, was vented into the tower and mixed with the air leaving the top of the tower. To be conservative, all diesel emissions were assumed to exit the supply building via the set of louvers. Because the flow rate from the vent is not known and the emissions are released horizontally, the emissions were modeled as a volume source with an initial vertical dimension corresponding to the height of the vent and an initial lateral dimension corresponding to the width of the vent. The release height was set as 25 feet.

4.2.2 Emission Rates

Emission rates for each source were developed in the Sampling Report, which are slightly different than the emission estimates used in this risk assessment. The differences are as follows:

- Ambient background concentrations of the COPCs in air have been subtracted from the source measurement prior to the calculation of exposure and risk.
- A duplicate sample for the tower emissions was included in the calculation in the Sampling Report, but has been eliminated from the revised calculation since inclusion would over represent the concentration at the source on that particular day.

In Appendix A, updated emissions estimates are presented that account for these revisions. In some cases, the background concentration was greater than the measured source concentration so the emission rate for that measurement period was 0. The average background concentration in ambient air is represented by the average concentration for all upwind and downwind monitoring stations. The average emission rates presented in Appendix A represent emissions averaged over days when specific activities were occurring at the drill site. To account for the intermittent nature of drilling and maintenance activities, BreitBurn's operating schedule

(Table 1) was used as an activity duration factor to develop an annual average emission rate for drilling and maintenance emissions (Table 5). BreitBurn's projected schedule for 2005 was used as the most conservative measure of potential emissions from drilling and maintenance consistent with regulatory guidance (OEHHA, 2003). The emissions from drilling and maintenance activities were summed to produce total annual average emissions from the tower.

The average emission rate presented in the Sampling Report for cellar emissions represented the emissions from one cellar. To account for the contribution of one cellar and one-half of the other cellar (the half not influenced directly by the tower), the average emission rate was multiplied by a factor of 1.5. The cellar emissions are presented in Table 5.

Diesel engine emission rates were not adjusted from those presented in the *Air Quality Sampling Report* (Geomatrix, 2005) except to add emissions from the main diesel engine and auxiliary diesel engine together. Diesel engine emission rates are presented in Table 6.

4.2.3 Receptors

A receptor grid was developed based on 25-meter receptor spacing around the facility and at the facility boundary (Figure 3). As shown on Figure 3, residential receptors are located in the vicinity of the BreitBurn drill site. Residential populations were identified based on aerial photographs of the site and observations made during site visits. A receptor grid was set in a 1 kilometer radius of the facility boundary. Figure 3 shows a subset of all receptors included in the evaluation. During a site visit, receptor locations that coincided with buildings more than two-stories in height were identified. In the vicinity of the drill site, these were typically apartment or office buildings where air intakes would likely be located on the roof. For receptor locations identified as more than two-stories, the receptor height was increased by 10 feet for each story (e.g., for a three-story building the receptor height was set at 30 feet).

In addition, key off-site receptors (e.g., schools, hospitals, and day care centers) were identified in the vicinity of the drill site and specific receptor locations were added to the model (Table 7).

4.2.4 Air Dispersion Modeling

Air dispersion modeling was conducted using the Industrial Source Complex Short-Term (ISCST; version 02035, U.S. EPA, 1995) emission model to predict off-site chemical concentrations based on the measurements at the site. An electronic scaled facility diagram was used to locate sources using the Universal Transverse Mercator coordinate system. Meteorological data from the West Los Angeles, California station as provided by the South Coast Air Quality Management District was used in the modeling. Source, building, and

receptor elevations were provided by importing a USGS Digital Elevation Model (DEM) quad for Beverly Hills, California into the model.

U.S. EPA regulatory default options for modeling were used with the following exceptions:

- For well cellars, stack tip downwash algorithms were not included because the emissions are not from a true stack.
- To address a potential problem that may occur when the receptor elevation is below the stack base elevation, a non-regulatory default option was used. If this adjustment was made it is noted on the modeling output.

4.2.5 Predicted Off-Site Concentrations

Annual average air concentrations for all COPCs were predicted at receptors located on a 25-meter grid spacing surrounding the drill site. Summary results are presented in Table 8 and receptor locations are shown on Figure 4. Table 8 only presents results for receptors in the immediate vicinity of the drill site. All results are included in the modeling output in Appendix B. Among the grid receptors, a specific maximum exposed individual resident (MEIR) and a specific maximum exposed individual worker (MEIW) were identified based on the subsequent risk characterization (Section 6.0). Concentrations of COPCs were also predicted at key off-site locations.

4.2.6 Exposure Quantification

Potential exposure was estimated using exposure assumptions (Table 9) as appropriate to each receptor and for each health effect. For acute effects, no exposure adjustments are made because any receptor could be present in the vicinity of the drill site for one hour, the estimated duration of exposure. For chronic effects, the predicted concentration in air was adjusted by an exposure factor for the duration and frequency of worker exposure, but was not adjusted for residential exposure. Worker exposure was adjusted for working 8 out of 24 hours per day and 245 out of 365 days per year. For carcinogenic exposure, lifetime average daily dose (LADD) was calculated for the purpose of estimating risk for both residents and workers, as follows.

$$LADD = Ca \times DBR \times A \times EF \times ED \times 1x10^{-6} / AT$$

where:
- Ca = Predicted concentration in air ($\mu g/m^3$)
- DBR = Daily breathing rate (L/kg-day)
- A = Inhalation absorption factor
- EF = Exposure frequency (days/year)
- ED = Exposure duration (years)
- AT = Averaging time (years)

5.0 TOXICITY ASSESSMENT

Toxicity assessment entails quantifying the relationship between the dose of a chemical and the incidence of adverse effects in the exposed population. The result of the toxicity or dose-response assessment is toxicity criteria that are used in the risk characterization to estimate the likelihood of adverse effects occurring in humans at different exposure levels. The toxicity criteria used to evaluate noncarcinogenic health risks are commonly referred to as reference doses (RfDs) or reference exposure levels (RELs). Toxicity criteria used to evaluate carcinogenic health risks are referred to as potency or slope factors (SFs).

The Office of Environmental Health Hazard Assessment of Cal-EPA or U.S. EPA has completed toxicity assessments for many of the COPCs identified during air quality sampling. In cases where these agencies have not published acute toxicity criteria, other reliable sources were consulted. The associated toxicity criteria for the COPCs evaluated in this HRA were selected according to the following hierarchy:

1. Cal-EPA, Office of Environmental Health Hazard Assessment, 2005, on-line databases for Acute Reference Exposure Levels, Chronic Reference Exposure Levels, and Cancer Potency Factors, http://oehha.ca.gov/air/hot_spots/index.html;
2. U.S. EPA Integrated Risk Information System (IRIS), 2005, on-line database for toxicity criteria, http://www.epa.gov/iris/index.html;
3. U.S. EPA, 2004, Preliminary Remediation Goals (PRGs); and
4. U.S. EPA, 1997b, Health Effects Assessment Summary Tables, FY-1997 Annual, Office of Solid Waste and Emergency Response, Washington, D.C.

If a toxicity criterion was not available for acute exposures from one of these references, toxicity criteria from the following references were identified and the most conservative value was used in the evaluation.

- National Institute for Occupational Safety and Health (NIOSH), Recommended Exposure Limit (REL);
- American Conference of Governmental Industrial Hygienists, 2004, Threshold Limit Values;
- Agency for Toxic Substances and Disease Registry (ATSDR), 2005, Minimum Risk Levels; and
- California Air Resources Board, 2005, California Ambient Air Quality Standards.

If a toxicity criterion was not available for chronic noncarcinogenic exposures from one of these references, toxicity criteria from the following references were identified and the most conservative value was used in the evaluation.

- Agency for Toxic Substances and Disease Registry (ATSDR), 2005, Minimum Risk Levels; and
- Total Petroleum Hydrocarbon Work Group Series, 1997, Volume 4, Development of Fraction Specific Reference Doses (RfDs) and Reference Concentrations (RfCs) for Total Petroleum Hydrocarbons (TPH).

For some chemicals, specific toxicity criteria were not available. In these cases, toxicity criteria for surrogates with similar chemical properties were used. Petroleum hydrocarbons with five to eight carbon atoms (heptane, total methylpentanes, 2-methylbutane, methylcyclopentane, and pentane), had the same toxicity criteria and were grouped together for the purpose of modeling. The toxicity criteria used in this assessment are presented in Table 10 and the rationale is presented in Appendix C.

6.0 RISK CHARACTERIZATION

Risk characterization represents the final step in the risk assessment process. In this step, the results of the exposure and toxicity assessments are integrated into quantitative or qualitative estimates of potential health risks. Potential noncarcinogenic health effects and carcinogenic health risks are characterized separately.

6.1 NONCARCINOGENIC HEALTH EFFECTS

Potential adverse noncarcinogenic health effects were evaluated using the hazard index (also called HI) approach as recommended by U.S. EPA.[6] The first step in this approach is to compare the average daily dose (ADD) for each chemical to the appropriate REL. Acute and chronic comparisons were conducted independently. The comparison for chronic exposure was adjusted for workers to reflect the breathing rate and exposure duration as appropriate. This comparison is expressed in terms of a "hazard quotient," which is calculated as follows:

$$\text{Hazard Quotient}_i = \frac{\text{Concentration}_i}{\text{REL}_i}$$

Where: Concentration = Concentration of chemical "i" in air ($\mu g/m^3$)
REL = Reference Exposure Level for chemical "i" ($\mu g/m^3$)

A hazard quotient less than or equal to 1 indicates that the predicted exposure to that chemical should not result in an adverse noncarcinogenic health effect (U.S. EPA, 1989; SCAQMD, 2005a). For existing facilities with multiple sources, SCAQMD requires risk reduction measures for hazard indexes greater than 3 (SCAQMD, 2005b). In cases where individual chemicals potentially act on the same organs or result in the same health endpoint (e.g., respiratory irritants), potential additive effects may be addressed by calculating a hazard index as follows:

$$\text{Hazard Index} = \sum_{i=1}^{n} \text{Hazard Quotient}_i$$

A hazard index of less than or equal to 3 for existing facilities indicates acceptable levels of exposure for chemicals having an additive effect. In this risk assessment, a screening-level hazard index was calculated by summing the hazard quotients for all chemicals, regardless of toxic endpoint (U.S. EPA, 1989). This approach is generally believed to overestimate the potential for noncarcinogenic health effects due to simultaneous exposure to multiple chemicals because it does not account for different toxic endpoints (U.S. EPA, 1989; NRC, 1988; Risk Commission, 1997; Seed, et al., 1995). However, it can be used as a screening tool to rapidly identify those exposure scenarios for which exposure to multiple chemicals does not pose a noncarcinogenic health risk. If the screening hazard index is greater than 1, a target organ-specific hazard index may be calculated to more accurately assess the potential for noncarcinogenic effects to specific target organs based on target organs for each chemical identified by OEHHA.

6.1.1 Acute Noncarcinogenic Health Effects

The maximum measured ambient concentration of each COPC, regardless of background concentrations or upwind/downwind location, was compared to the acute reference exposure levels. As shown on Table 7, the concentrations were two or more orders of magnitude lower than the acute reference exposure levels, indicating that chemical emissions from the drill site would not result in an acute public health risk for short-term exposure under the conditions evaluated.

6.1.2 Chronic Noncarcinogenic Health Effects

The predicted annual average concentrations of COPCs were compared to the chronic reference exposure levels. The total chronic hazard indexes for the MEIR and MEIW were 0.02 and 0.004, respectively. The MEIR is also the point of maximum impact. The chemical-specific hazard quotients are presented in Table 11. These values are well below a hazard index of 3,

indicating that chemical emissions from the drill site would not result in a public health risk for chronic noncarcinogenic exposure under the conditions evaluated. Appendix D presents noncarcinogenic hazard indexes for all off-site receptors evaluated.

6.2 CARCINOGENIC HEALTH EFFECTS

Carcinogenic health risks are defined in terms of the increased theoretical probability of an individual developing cancer as the result of exposure to a given chemical at a given concentration. Conceptually, calculations and assumptions are intended to provide upper-bound estimates of hypothetical risk under the assumption that there is no threshold for the carcinogenic effect. Actual risk may be lower, if not zero. Incremental lifetime excess cancer risks are estimated as follows:

$$\text{Lifetime Excess Cancer Risk}_i = \text{LADD}_i \times \text{SF}_i$$

Where: LADD_i = Lifetime Average Daily Dose of Chemical "i" in air ($\mu g/m^3$)
SF_i = Slope Factor for Chemical "i" ($\mu g/m^3$)

As with hazard indices, the estimated excess cancer risks for each chemical were summed across all carcinogenic chemicals to estimate the total excess cancer risk for the exposed individual. The result was an incremental lifetime excess cancer risk related to emissions measured at the drill site.

Regulatory agencies such as Cal-EPA and U.S. EPA have defined what is considered an acceptable level of risk in similar though slightly different ways. The U.S. EPA considers $1x10^{-6}$ to $1x10^{-4}$ to be the target range for acceptable risks at sites where remediation or mitigation is considered (U.S. EPA, 1990a and 1990b). Estimates of lifetime excess cancer risk associated with exposure to chemicals of less than one-in-one-million ($1x10^{-6}$) are considered to be so low as to not warrant any further investigation or analysis (U.S. EPA, 1990a). Typically, U.S. EPA uses the $1x10^{-6}$ risk level as a point of departure for considering risk management measures, but will also consider site-specific conditions that allow for acceptance of risks higher than this level but within the acceptable risk range. Within the State of California, Cal-EPA also tends to work within the same target range for acceptable risks. Pursuant to the California Safe Drinking Water & Toxic Enforcement Act of 1986, the Office of Environmental Health Hazard Assessment has established a no significant risk level at $1x10^{-5}$ (CCR Division 21.5, Title 22, э 12703). In the South Coast Air Quality Management District (SCAQMD), risks from a new emission source within an existing facility must be less

than $1x10^{-6}$ or less than $1x10^{-5}$ if best available control technology for toxics (T-BACT) is used (SCAQMD, 2005a). For cumulative exposure from multiple sources at an existing facility, SCAQMD requires risk reduction measures for risks exceeding 25 in a million ($25x10^{-6}$) (SCAQMD, 2005b).

It is our understanding that under the terms of the settlement agreement, which required this risk assessment, if the potential carcinogenic risk exceeded $1x10^{-6}$, The Department of Building and Safety, the Zoning Administrator, the South Coast Air Quality Management District, and the Division of Oil and Gas would need to be notified. If the potential carcinogenic risk exceeded one in a hundred thousand ($1x10^{-5}$), BreitBurn would request a public hearing.

It should be noted that cancer risks in the $1x10^{-6}$ to $1x10^{-4}$ range or higher do not necessarily mean that adverse health effects will be observed. Current methodology for estimating the carcinogenic potential of chemicals is believed to not underestimate the true risk, but could overestimate the true risk by a considerable degree. In fact, the range of possible risks includes zero.

The estimated LADD and slope factor for each chemical were used to estimate carcinogenic risk. The estimated carcinogenic risk for the MEIR and MEIW were $8x10^{-6}$ and $1x10^{-6}$, respectively. The MEIR is also the point of maximum impact. The chemical-specific carcinogenic risks are presented in Table 12. These values are within the acceptable risk range used by U.S. EPA and below $1x10^{-5}$, the level typically used for air toxics programs in California. The estimated human health risks at key off-site receptors are presented on Table 13. Estimates using standard residential exposure assumptions and worker exposure assumptions are presented. Potential exposure by children at the pre-school would be significantly less since they would be present for a limited number of years (2 to 3 years) compared to the worker (40 years). Figure 5 presents the general area within which predicted risks exceeded $1x10^{-6}$. Appendix E presents estimated carcinogenic risk for off-site receptors with predicted risk greater than $1x10^{-6}$.

Only four of the chemicals measured in facility emissions were considered carcinogens; of these the most significant contribution (79 percent) to carcinogenic risk was benzene ($6.2x10^{-6}$ at the MEIR) and diesel particulates ($1.7x10^{-6}$ at the MEIR). The source of the benzene that resulted in the predicted risk was the emissions from the well cellars, primarily based on one measurement on January 7, 2005 (240 $\mu g/m^3$). The remaining three measurements of benzene at the cellars were less than or equal to 13 $\mu g/m^3$. It should also be noted that the benzene

concentration in air predicted by the air dispersion model at the MEIR (0.22 μg/m^3) is less than lowest concentration measured in ambient samples (0.76 μg/m^3) and below concentrations measured in ambient air in the South Coast Air Quality Management District Air Basin (0.75 μg/m^3, CARB, 2004).

The primary source of the diesel particulates was the estimated emissions from auxiliary engines used to power pumping equipment in the supply house. The estimated contribution of trucks coming in and out of the facility was not significant compared to the use of the diesel engines to power pumping equipment, representing only 7 percent of the total time diesel engines were operated. BreitBurn provided an estimate of the duration of the use of diesel engines for pumping activities during the site visit, but because of the intermittent nature of the activity actual duration could not be verified. The estimated concentration of diesel particulates in the South Coast Air Quality Management District in ambient air was 3.6 μg/m^3 in 1990 (CARB, 1998) and was 3.1 μg/m^3 in 1999 (SCAQMD, 2000). These concentrations are significantly higher than the predicted air concentration of 0.0054 μg/m^3 predicted at the MEIR in the model.

6.3 UNCERTAINTY ANALYSIS

Uncertainty is inherent in many aspects of the risk assessment process, and generally arises from a lack of knowledge of (1) site conditions, (2) toxicity and dose-response of the COPCs, and (3) the extent to which an individual will be exposed to those chemicals. This lack of knowledge means that assumptions must be made based on information presented in the scientific literature or professional judgment. While some assumptions have significant scientific basis, others have much less. The assumptions that introduce the greatest amount of uncertainty and their effect on the noncarcinogenic and carcinogenic risk estimates are discussed below. This discussion is generally qualitative in nature, reflecting the difficulty in quantifying the uncertainty in specific assumptions. In general, assumptions were selected in a manner that purposefully biases the process toward health conservatism.

- For the ambient air evaluation, a limited number of measurements were made. However, since the measurements were significantly lower than acute toxicity criteria, additional ambient measurements would not be likely to change this conclusion.
- A limited number of source measurements were made to characterize emissions during the different facility activity modes (four for drilling and one for maintenance). As conditions during drilling and maintenance activities are not

consistent, these measurements may over or underestimate emissions on an annual basis. However, emissions from these sources did not result in carcinogenic risks or hazard indexes exceeding acceptable levels. Emissions from these sources would have to be at least 10 times higher than those measured to results in a significant increase to estimated risk.

- There was a high variability among the well cellar measurements where samples on one day were at least 10 times higher than the other three samples. A specific reason for the higher measurements was not identified and so they were used as if they represented emissions 25 percent of the time. This assumption may overestimate risk if the higher measurement represents emissions that occur less than 25 percent of the time.

- The estimate of diesel emissions was based on operation estimates by BreitBurn personnel and default emission rates for the types of engines operated. The assumptions used in this assessment were intended to overestimate potential emissions from diesel engines. More specific documentation of operation and types of engines would be useful for assessing the uncertainty in the diesel emission estimates as a key contributor to overall health risk.

- Background concentrations of benzene in the vicinity of the drill site as measured in ambient samples and general background concentrations in the South Coast Air Quality Management District are higher than the predicted concentrations from sources at the drill site. Thus, ambient measurements can not be used to corroborate the model results. This suggests that ambient conditions are dominated by sources other than the drill site.

- Background concentrations of diesel particulates in the South Coast Air Quality Management District as estimated by CARB are significantly higher than predicted concentrations of diesel particulates by the model. Thus, ambient measurements can not be used to corroborate the model results. This suggests that ambient conditions are the result from sources other than the drill site.

- The exposure assessment is based on conservative exposure assumptions. For example, the evaluation assumes that a worker will be exposed for 245 days per year for 40 years and a resident will be exposed for 350 days per year for 70 years at the same concentration. This and other upper-bound estimates of exposure most likely overestimate the potential health risks associated with exposure to the COPCs emitted from the BreitBurn drill site.

- One of the largest sources of uncertainty in any risk assessment is associated with the scientific community's limited understanding of the toxicity of most chemicals in humans following exposure to the low concentrations generally encountered in the environment. The majority of available toxicity data are from animal studies, which are then extrapolated using mathematical models or multiple uncertainty factors to generate toxicity criteria used to predict what might occur in humans. In aggregate it is believed that the uncertainty is conservative; actual risk will be lower.

7.0 CONCLUSIONS

Geomatrix Consultants, Inc. (Geomatrix) has prepared this health risk assessment for air emissions from operations at the BreitBurn Oil Company (BreitBurn) drill site (the drill site) at the corner of West Pico Boulevard and South Doheny Drive in Los Angeles, California (Figure 1). The objective of this project was to collect air quality data that reflect emissions of chemicals during operations at the drill site (excluding concentrations of chemicals associated with background conditions) and to quantify potential exposures to residents and industrial/commercial receptors in the vicinity. Potential human health risk was evaluated separately for the ambient air measurements and source emission measurements.

The risk assessment results are summarized in Table 14:

- The ambient air concentrations were two or more orders of magnitude lower than the acute reference exposure levels, indicating that chemical emissions from the drill site would not result in an acute public health risk for acute exposure under the conditions evaluated.
- The total chronic hazard indexes for the MEIR and MEIW were 0.02 and 0.004, respectively. These values are well below a hazard index of 1, indicating that chemical emissions from the drill site would not result in a public health risk for chronic noncarcinogenic exposure under the conditions evaluated.
- The estimated carcinogenic risk for the MEIR and MEIW were $8x10^{-6}$ and $1x10^{-6}$, respectively. These values are within the acceptable risk range as defined by U.S. EPA and below $25x10^{-5}$, the level used by SCAQMD to regulate existing emission sources. In addition, the activities at the BreitBurn drill site do not appear to contribute significantly to background air concentrations of key chemicals (benzene and diesel particulates).

Under the terms of the settlement agreement, which required this risk assessment, if the potential carcinogenic risk exceeded $1x10^{-6}$, The Department of Building and Safety, the Zoning Administrator, the South Coast Air Quality Management District, and the Division of Oil and Gas would need to be notified. Based on these results, notification is required, but there is sufficient uncertainty in the results that further evaluation may be warranted if any risk management decision is to be made. Specifically, more data regarding the emissions from the well cellars and the use of diesel equipment on site could further refine the most significant contributions to the estimated risk. As described in Section 6.3, one of the measurements from the well cellars was significantly higher than the other three measurements. Additional data could indicate whether this was an unusual condition that should not be represented as occurring 25 percent of the time. Also, the use of diesel equipment on site is not well documented so assumptions were provided by BreitBurn personnel. This uncertainty could be resolved by monitoring of diesel equipment use over time.

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TABLES

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TABLE 1

SUMMARY OF PROJECTED ANNUAL DRILL SITE OPERATIONS

BreitBurn Drill Site
Los Angeles, California

	2005	2006-2007	2008 and future
Drilling in progress	40%	64%	3.20%
Maintenance - normal	37%	12%	27.49%
Maintenance - pulling wet pipe	0.77%	0.26%	0.56%
No drilling or maintenance	22%	23%	68.75%
Total	100%	100%	100%

TABLE 2

SUMMARY OF CHEMICALS OF POTENTIAL CONCERN

BreitBurn Drill Site

Los Angeles, California

Source	Petroleum Hydrocarbons	Chlorinated/ Non-Petroleum Hydrocarbons	Diesel Exhaust
Chemicals:	Benzene	Acetone	Carbon monoxide
	Butane	Carbon Disulfide	Nitrogen oxides
	2-Butanone	2-Propanol	Particulate matter
	Cumene	Tetrachloroethene	Reactive organic gases
	Cyclohexane	Tetrahydrofuran	Sulfur oxides
	Ethyl Benzene	Trichloroethene	
	4-Ethyltoluene		
	Heptane		
	Hexane		
	2-Hexanone		
	Total Methyl pentanes		
	2-Methyl butane		
	Methyl cyclohexane		
	Methyl cyclopentane		
	Pentane		
	Propylbenzene		
	Toluene		
	1,2,4-Trimethylbenzene		
	1,3,5-Trimethylbenzene		
	Total Xylenes		

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TABLE 3

AMBIENT AIR CONCENTRATIONS

BreitBurn Drill Site

Los Angeles, California

Concentrations reported in micrograms per cubic meter (ug/m^3)

Sample ID	Activity Mode/ Operation	Sample Location	Direction	Time of Day	Sample Date	1,2,4-Tri-methyl-benzene	2-Butanone (Methyl Ethyl Ketone)	2-Propanol	Acetone	Benzene	Cyclo-hexane	Ethyl Benzene	Heptane	Hexane	Tetra-chloro-ethene	Toluene	m,p-Xylene	o-Xylene	Tentatively Identified Compounds (TICs)[1]					
																			Butane	2-Methyl-butane	Methyl-cyclo-pentane	2-Methyl-pentane	3-Methyl-pentane	Pentane
Detected in Facility Emissions?						Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
US1-052404	Idle	In front of 1417 Doheny - Asih school office	upwind	Day	05/24/04	-4.8	**6.7**	-9.5	**41.0**	-3.1	**4.5**	-4.2	-4.0	**4.5**	-6.6	**21.0**	-4.2	-4.2	-6.0	-7.0	**30.0**	-9.0	-9.0	-7.0
US2-052404	Idle	In front of 1417 Doheny - Asih school office	upwind	Night	05/25/04	-4.7	-2.8	-9.3	-9.0	-3.0	-3.3	-4.1	-3.9	-3.3	-6.5	-3.6	-4.1	-4.1	-6.0	-7.0	-9.0	-9.0	-9.0	-7.0
DS1-052404	Idle	Corner of Alley and Parking Lot - 15m N of BB wall	downwind	Day	05/24/04	-5.0	-3.0	-10.0	-9.7	-3.3	-3.5	-4.4	-4.2	**9.4**	**8.1**	**4.3**	-4.4	-4.4	**72.0**	**57.0**	-9.0	**33.0**	-9.0	**60.0**
DS2-052404	Idle	1119 Oakhurst - Front Area NNW of BB	downwind	Day	05/24/04	-5.0	-3.0	-10.0	-9.7	-3.3	-3.5	-4.4	-4.2	**5.4**	-6.9	-3.8	-4.4	-4.4	-6.0	**29.0**	-9.0	-9.0	-9.0	**30.0**
DS3-052404	Idle	Corner of Alley and Parking Lot - 15m N of BB wall	downwind	Night	05/25/04	-4.6	-2.7	-9.1	-8.8	-3.0	**6.1**	-4.0	**7.1**	**15.0**	-6.3	**7.6**	-4.0	-4.0	-6.0	**78.0**	-9.0	**50.0**	-9.0	**84.0**
DS3-052404 Duplicate	Idle	Corner of Alley and Parking Lot - 15m N of BB wall	downwind	Night	05/25/04	-4.6	-2.7	-9.1	-8.8	-3.0	**6.3**	-4.0	**6.5**	**15.0**	-6.3	**7.7**	-4.0	-4.0	-6.0	**78.0**	-9.0	**50.0**	-9.0	**87.0**
DS4-052404	Idle	1119 Oakhurst - Front Area NNW of BB	downwind	Night	05/25/04	-4.8	-2.9	-9.5	-9.2	-3.1	-3.3	-4.2	-4.0	-3.4	-6.6	-3.6	-4.2	-4.2	-6.0	**18.0**	-9.0	-9.0	-9.0	**20.0**
BB-10	Drilling	In front of 1417 Doheny - Asih school office	upwind	Day	07/24/04	-1.2	-3.5	-2.9	**150.0**	-0.77	-4.1	-1.0	-4.9	-4.2	-1.6	**1.2**	-1.0	-1.0	-6.0	-7.0	-9.0	-9.0	-9.0	-7.0
BB-8	Drilling	Behind Chabad school, playground in alley	downwind	Day	07/24/04	**0.88**	-2.7	-2.3	**9.8**	**1.1**	-3.2	-0.81	-3.8	-3.3	**2.8**	**3.8**	**2.0**	-0.81	**6.0**	-7.0	-9.0	-9.0	-9.0	**8.0**
BB-9	Drilling	Harkham Hillel, outside playground door in back	downwind	Day	07/24/04	-1.0	**25.0**	**3.0**	**130.0**	**0.76**	-3.5	-0.89	**6.6**	-3.6	-1.4	**2.4**	**1.3**	-0.89	-6.0	-7.0	-9.0	-9.0	-9.0	-7.0
BB-11	Drilling	1119 Oakhurst - Front Area NNW of BB	downwind	Day	07/24/04	-1.0	-2.9	-2.4	**12.0**	**0.87**	-3.4	-0.86	-4.1	-3.5	**1.5**	**2.3**	**1.2**	-0.9	**13.0**	-7.0	-9.0	-9.0	-9.0	**10.0**
BB-11 Duplicate	Drilling	1119 Oakhurst - Front Area NNW of BB	downwind	Day	07/24/04	-1.0	-2.9	-2.4	**12.0**	**0.91**	-3.4	-0.86	-4.1	-3.5	**1.6**	**2.3**	**1.2**	-0.9	**14.0**	-7.0	-9.0	-9.0	-9.0	**11.0**
BB-12	Drilling	Corner of Alley and Parking Lot - 15m N of BB wall	downwind	Day	07/24/04	**1.5**	-2.9	-2.4	**12.0**	**1.2**	-3.4	-0.86	-4.1	-3.5	**13.0**	**2.7**	**1.5**	-0.9	**21.0**	**19.0**	-9.0	-9.0	-9.0	**21.0**
BB-A-2	Maintenance	In front of 1417 Doheny - Asih school office	upwind	Day	11/13/04	**3.2**	**3.3**	**2.3**	**18**	**1.8**	-2.9	**1.2**	-3.5	-3.0	**2.0**	**5.3**	**4.4**	**2.2**	**9.0**	**13.0**	-9.0	-9.0	-9.0	**5.0**
BB-A-1	Maintenance	Corner of Alley and Parking Lot - 15m N of BB wall	downwind	Day	11/13/04	-0.86	-2.6	-2.2	**11**	**2.1**	-3	**1.1**	-3.6	-3.1	**13**	**5.6**	**3.9**	**1.2**	**27**	**33**	**10**	**17**	**7.0**	**23**
BB-A-3	Maintenance	Behind Chabad school, playground in alley	downwind	Day	11/13/04	**0.86**	-2.2	-1.8	**13**	**1.9**	-2.5	**0.97**	-3.0	-2.6	**2.7**	**6.8**	**3.2**	**1.0**	**10**	**26**	-9.0	-9.0	**4.0**	**7.0**
BB-A-4	Maintenance	1119 Oakhurst - Front Area NNW of BB	downwind	Day	11/13/04	**0.7**	-2	**16**	**14**	**2**	-2.3	**0.84**	-2.8	-2.4	**1.0**	**10**	**2.8**	**0.86**	**18.0**	**30.0**	**6.0**	**12.0**	**5.0**	**12.0**
BB-A-5	Maintenance	Harkham Hillel, outside playground door in back	downwind	Day	11/13/04	-1	-3	-2.5	**16**	**1.5**	-3.5	-0.88	-4.2	-3.6	-1.4	**4**	**1.6**	-0.88	**7.0**	-7.0	-9.0	-9.0	-9.0	**5.0**
Average Ambient Air Concentration[2]						1.5	3.1	3.6	25.9	1.4	2.3	1.2	2.7	3.9	3.8	5.1	2.1	1.3	12.3	22.7	6.3	12.3	4.6	22.1
Maximum Detected Concentration:						3.2	25.0	16.0	150.0	2.1	6.3	1.2	7.1	15.0	13.0	21.0	4.4	2.2	72.0	78.0	30.0	50.0	7.0	87.0
Acute Reference Exposure Limit:						12,300	13,000	49,100	62,000	1,300	34,400	4,340	164,000	180,000	20,000	37,000	22,000	22,000	238,000	180,000	138,000	180,000	180,000	177,000
Acute Hazard Index						2.6.E-04	1.9.E-03	3.3.E-04	2.4.E-03	1.6.E-03	1.8.E-04	2.8.E-04	4.3.E-05	8.4.E-05	6.5.E-04	5.7.E-04	2.0.E-04	1.0.E-04	3.0.E-04	4.3.E-04	2.2.E-04	2.8.E-04	3.9.E-05	4.9.E-04

Notes:

[1] TICs presented were detected multiple times and are petroleum hydrocarbons.

[2] Average of ambient air data for chemicals detected in facility emissions and in ambient air samples; half the reporting limit was used for non-detect results

Negative sign indicates the chemical was not detected at the reporting limit shown.
Bold values indicate detected concentrations.

TABLE 4

SOURCE CHARACTERISTICS

BreitBurn Drill Site
Los Angeles, California

Source	Emissions	Model ID Number	UTM Coordinates (X,Y; m)	Source Type	Release Height (feet/meters)	Volumetric Flow Rate (m^3/s)	Diameter (m)	Temp (Kelvin)	Initial Lateral Dimension[1] δyo (m)	Initial Vertical Dimension[2] δzo (m)
Drilling Tower	Mudhouse, Drilling	1	371763.4, 3768986.4	Point	128 / 39	30	8	293	na	na
Supply Building Vent	Diesel Exhaust	2	371770.7, 3768998.3	Volume	30 / 9.14	na	na	na	0.71	1.13
Drilling Yard	North Cellar	3	371747.8, 3768990	Point[3]	25 / 7.62	5.4[4]	8.3	293	na	na
		4	371756.6, 3768989.7	Point[3]						
		5	371770.5, 3768989.6	Point[3]						
		6	371779.1, 3768989.5	Point[3]						
	South Cellar	7	371755.4, 3768981.6	Point[3]		5.3[4]	8.2			
		8	371777.8, 3768981.3	Point[3]						

Notes:

[1] Supply building vent: δyo = width of vent (3.048 m) divided by 4.3.

[2] Supply building vent: δzo = vent height (2.44 m) divided by 2.15.

[3] Virtual point sources with a velocity of 0.1 m/s; sum of stack areas equal to area of well cellars.

[4] Volumetric flow rate based on cross-sectional area of source and assumed flow rate of 0.1 m/s.

na = not applicable

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TABLE 5

DRILL SITE EMISSION RATES

BreitBurn Drill Site
Los Angeles, California

Chemical	Average Emission Rate[1] (g/sec)					Activity Duration Factor[2]		Annual Average Emission Rate (g/sec)			
	Drilling			Maintenance							
	Mudhouse Duct	Tower	Total	Tower	Cellars	Drilling	Maintenance	Drilling[3]	Maintenance[3]	Total Tower Emissions[4]	Cellars[5]
Acetone	5.47E-04	--	5.47E-04	--	3.74E-06	0.40	0.38	2.19E-04	--	2.19E-04	5.61E-06
Benzene	5.08E-04	3.77E-04	8.85E-04	1.04E-03	4.72E-04	0.40	0.38	3.54E-04	3.96E-04	7.50E-04	7.08E-04
Butane	8.96E-03	2.86E-03	1.18E-02	--	9.41E-04	0.40	0.38	4.73E-03	--	4.73E-03	1.41E-03
2-Butanone (Methyl Ethyl Ketone)	8.13E-05	--	8.13E-05	6.12E-05	1.34E-05	0.40	0.38	3.25E-05	2.34E-05	5.59E-05	2.01E-05
Carbon Disulfide	1.76E-05	6.31E-05	8.08E-05	4.09E-05	2.82E-05	0.40	0.38	3.23E-05	1.56E-05	4.80E-05	4.23E-05
Cumene	8.84E-05	6.76E-05	1.56E-04	6.36E-05	3.35E-05	0.40	0.38	6.24E-05	2.43E-05	8.68E-05	5.02E-05
Cyclohexane	1.40E-03	1.07E-03	2.48E-03	4.27E-03	1.08E-03	0.40	0.38	9.91E-04	1.63E-03	2.62E-03	1.61E-03
Ethyl Benzene	5.18E-04	3.49E-04	8.67E-04	5.86E-04	3.38E-05	0.40	0.38	3.47E-04	2.24E-04	5.71E-04	5.07E-05
4-Ethyltoluene	4.35E-04	3.76E-04	8.11E-04	6.14E-04	7.66E-05	0.40	0.38	3.25E-04	2.35E-04	5.59E-04	1.15E-04
Heptane	1.58E-03	1.21E-03	2.78E-03	7.21E-03	8.81E-04	0.40	0.38	1.11E-03	2.76E-03	3.87E-03	1.32E-03
Hexane	1.91E-03	1.68E-03	3.60E-03	8.55E-03	2.71E-03	0.40	0.38	1.44E-03	3.27E-03	4.71E-03	4.07E-03
2-Hexanone	4.35E-05	2.19E-04	2.63E-04	2.16E-04	1.12E-04	0.40	0.38	1.05E-04	8.26E-05	1.88E-04	1.68E-04
Total Methyl pentanes	6.54E-03	5.25E-03	1.18E-02	2.83E-02	9.44E-03	0.40	0.38	4.72E-03	1.08E-02	1.55E-02	1.42E-02
2-Methyl butane	9.71E-03	5.36E-03	1.51E-02	2.90E-02	1.33E-02	0.40	0.38	6.03E-03	1.11E-02	1.71E-02	1.99E-02
Methyl cyclohexane	3.77E-03	3.05E-03	6.82E-03	1.39E-02	1.92E-03	0.40	0.38	2.73E-03	5.30E-03	8.03E-03	2.89E-03
Methyl cyclopentane	6.12E-03	4.51E-03	1.06E-02	--	6.11E-03	0.40	0.38	4.25E-03	--	4.25E-03	9.17E-03
Pentane	7.13E-03	5.17E-03	1.23E-02	2.90E-02	1.27E-02	0.40	0.38	4.92E-03	1.11E-02	1.60E-02	1.91E-02
2-Propanol	1.69E-05	2.78E-05	4.47E-05	1.92E-04	4.10E-05	0.40	0.38	1.79E-05	7.34E-05	9.13E-05	6.15E-05
Propylbenzene	1.46E-04	1.05E-04	2.51E-04	1.91E-04	3.35E-05	0.40	0.38	1.00E-04	7.30E-05	1.73E-04	5.02E-05
Tetrachloroethene	1.78E-04	2.69E-04	4.47E-04	3.01E-04	5.28E-05	0.40	0.38	1.79E-04	1.15E-04	2.94E-04	7.92E-05

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TABLE 5

DRILL SITE EMISSION RATES

BreitBurn Drill Site
Los Angeles, California

Chemical	Average Emission Rate[1] (g/sec)					Activity Duration Factor[2]		Annual Average Emission Rate (g/sec)			
	Drilling			Maintenance							
	Mudhouse Duct	Tower	Total	Tower	Cellars	Drilling	Maintenance	Drilling[3]	Maintenance[3]	Total Tower Emissions[4]	Cellars[5]
Tetrahydrofuran	1.01E-04	5.03E-05	1.51E-04	3.86E-05	2.03E-05	0.40	0.38	6.03E-05	1.48E-05	7.51E-05	3.04E-05
Toluene	1.18E-03	9.66E-04	2.15E-03	2.61E-03	4.38E-04	0.40	0.38	8.60E-04	9.99E-04	1.86E-03	6.58E-04
Trichloroethene	2.91E-05	7.39E-05	1.03E-04	6.93E-05	3.65E-05	0.40	0.38	4.12E-05	2.65E-05	6.77E-05	5.47E-05
1,2,4-Trimethylbenzene	1.98E-04	2.45E-04	4.43E-04	5.80E-04	7.13E-05	0.40	0.38	1.77E-04	2.22E-04	3.99E-04	1.07E-04
1,3,5-Trimethylbenzene	2.61E-04	1.52E-04	4.13E-04	2.14E-04	4.07E-05	0.40	0.38	1.65E-04	8.17E-05	2.47E-04	6.11E-05
Total Xylenes	1.78E-03	1.43E-03	3.21E-03	2.74E-03	1.70E-04	0.40	0.38	1.29E-03	1.05E-03	2.33E-03	2.55E-04

Notes:

[1] Calculated in the Air Quality Sampling Report, Geomatrix, 2005.

[2] BreitBurn rig usage estimates for 2005.

[3] Annual Average Emission Rate = Emission Rate x Activity Duration Factor

[4] The sum of drilling and maintenance emission factors.

[5] Annual Average Emission Rate = Average emission rate multiplied by 1.5 to account for the contribution from one cellar and half of the other cellar not influenced by the tower. Average emission rates were estimated as emissions from one cellar.

-- = not applicable; no predicted emissions for that chemical

TABLE 6

DIESEL ENGINE EMISSION RATES

BreitBurn Drill Site

Los Angeles, California

Chemicals	Equipment Source	Annual Average Emission Rate[1] (g/sec)	Total Annual Average Emission Rate[2] (g/sec)
Nitrogen Oxides	Main Diesel Engine	1.93E-04	6.76E-04
	Auxiliary Diesel Engine	4.83E-04	
Reactive Organic Gases	Main Diesel Engine	1.12E-05	3.91E-05
	Auxiliary Diesel Engine	2.79E-05	
Carbon Monoxide	Main Diesel Engine	6.67E-05	2.34E-04
	Auxiliary Diesel Engine	1.67E-04	
Sulfur Oxides	Main Diesel Engine	2.02E-06	7.06E-06
	Auxiliary Diesel Engine	5.04E-06	
Particulate Matter	Main Diesel Engine	6.39E-06	2.23E-05
	Auxiliary Diesel Engine	1.60E-05	

Notes:

[1] Derived in the Air Quality Sampling Report, Geomatrix, 2005, Table 7.

[2] Sum of emissions from main diesel engine and auxiliary diesel engine.

TABLE 7

LOCATION OF KEY OFF-SITE RECEPTORS[1]

BreitBurn Drill Site

Los Angeles, California

Receptor Type	Description	Address	Receptor #	Height[2]	UTM Coordinates[3]
Child care facility	Garden School: Chabad Westside Preschool[3]	9051 W. Pico Blvd	693	GL	371840.9 , 3768970.0
			694	30 ft	371865.9 , 3768970.0
			695	GL	371890.9 , 3768970.0
			732	GL	371840.9 , 3768995.0
			733	30 ft	371865.9 , 3768995.0
			734	GL	371890.9 3768995.0

Notes:

[1] Sensitive receptors with greater than a one-in-a-million risk are presented.

[2] GL = ground level receptor; Elevated receptor has height indicated (e.g. 3 story building = 30 ft).

[3] Universal Transverse Mercator Coordinate System

[4] Represented by six receptor locations on the 25-m grid; locations indicated in Figure 4.

Geomatrix

TABLE 8

PREDICTED OFF-SITE AIR CONCENTRATIONS FROM AIR DISPERSION MODELING[1]

BreitBurn Drill Site

Los Angeles, California

Concentrations reported in micrograms per cubic meter ($\mu g/m^3$)

Receptor ID	X-Coor (UTM m)	Y-Coor (UTM m)	Acetone	Benzene	Butane	C5-C8 Hydrocarbons[2]	2-Butanone (Methyl Ethyl Ketone)	Carbon Disulfide	Cumene	Cyclohexane	Ethyl Benzene	4-Ethyltoluene	Hexane	2-Hexanone	Methyl cyclohexane	2-Propanol	Propylbenzene	Tetra-chloroethene	Tetra-hydrofuran	Toluene	Trichloroethene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Total Xylenes	Nitrogen Oxides	Reactive Organic Gases	Carbon Monoxide	Sulfur Oxides	Particulate Matter
773	371816	3769020	2.18E-03	2.13E-01	4.32E-01	1.91E+01	6.13E-03	1.28E-02	1.52E-02	4.88E-01	1.64E-02	3.56E-02	1.23E+00	5.07E-02	8.80E-01	1.86E-02	1.54E-02	2.43E-02	9.26E-03	2.01E-01	1.65E-02	3.28E-02	1.88E-02	8.15E-02	1.65E-01	9.54E-03	5.69E-02	1.72E-03	5.45E-03
772	371791	3769020	1.22E-03	1.50E-01	2.99E-01	1.34E+01	4.26E-03	8.95E-03	1.06E-02	3.41E-01	1.08E-02	2.44E-02	8.61E-01	3.56E-02	6.11E-01	1.30E-02	1.06E-02	1.68E-02	6.44E-03	1.39E-01	1.16E-02	2.27E-02	1.30E-02	5.43E-02	2.74E-01	1.58E-02	9.45E-02	2.86E-03	9.05E-03
815	371816	3769045	2.66E-03	1.47E-01	3.16E-01	1.32E+01	4.42E-03	8.83E-03	1.07E-02	3.42E-01	1.42E-02	2.70E-02	8.49E-01	3.51E-02	6.35E-01	1.30E-02	1.13E-02	1.80E-02	6.63E-03	1.45E-01	1.14E-02	2.42E-02	1.40E-02	6.76E-02	1.63E-01	9.45E-03	5.64E-02	1.70E-03	5.40E-03
1785	371795	3769008	9.72E-04	1.23E-01	2.45E-01	1.10E+01	3.48E-03	7.33E-03	8.70E-03	2.80E-01	8.78E-03	1.99E-02	7.05E-01	2.92E-02	5.00E-01	1.07E-02	8.70E-03	1.37E-02	5.27E-03	1.14E-01	9.48E-03	1.85E-02	1.06E-02	4.42E-02	1.79E-01	1.03E-02	6.17E-02	1.86E-03	5.90E-03
814	371791	3769045	1.50E-03	1.28E-01	2.62E-01	1.14E+01	3.70E-03	7.64E-03	9.14E-03	2.93E-01	1.03E-02	2.17E-02	7.35E-01	3.04E-02	5.32E-01	1.11E-02	9.33E-03	1.48E-02	5.59E-03	1.21E-01	9.89E-03	1.99E-02	1.14E-02	5.07E-02	1.32E-01	7.62E-03	4.55E-02	1.37E-03	4.35E-03
731	371816	3768995	1.16E-03	1.42E-01	2.83E-01	1.27E+01	4.03E-03	8.47E-03	1.01E-02	3.23E-01	1.02E-02	2.31E-02	8.15E-01	3.37E-02	5.78E-01	1.23E-02	1.01E-02	1.59E-02	6.10E-03	1.32E-01	1.09E-02	2.15E-02	1.23E-02	5.14E-02	8.12E-02	4.70E-03	2.80E-02	8.47E-04	2.68E-03
816	371841	3769045	2.97E-03	1.18E-01	2.66E-01	1.05E+01	3.68E-03	7.09E-03	8.70E-03	2.78E-01	1.34E-02	2.33E-02	6.82E-01	2.82E-02	5.29E-01	1.05E-02	9.52E-03	1.52E-02	5.48E-03	1.21E-01	9.21E-03	2.06E-02	1.19E-02	6.22E-02	1.17E-01	6.76E-03	4.04E-02	1.22E-03	3.86E-03
774	371841	3769020	1.89E-03	1.20E-01	2.53E-01	1.07E+01	3.55E-03	7.16E-03	8.63E-03	2.76E-01	1.08E-02	2.13E-02	6.89E-01	2.85E-02	5.09E-01	1.05E-02	9.01E-03	1.43E-02	5.33E-03	1.16E-01	9.28E-03	1.93E-02	1.11E-02	5.22E-02	9.59E-02	5.55E-03	3.31E-02	1.00E-03	3.17E-03
1784	371795	3769001.75	8.84E-04	1.11E-01	2.22E-01	1.00E+01	3.17E-03	6.67E-03	7.91E-03	2.54E-01	7.98E-03	1.81E-02	6.41E-01	2.65E-02	4.54E-01	9.68E-03	7.91E-03	1.25E-02	4.79E-03	1.04E-01	8.61E-03	1.68E-02	9.62E-03	4.02E-02	9.68E-02	5.60E-03	3.34E-02	1.01E-03	3.20E-03
858	371841	3769070	3.30E-03	9.03E-02	2.19E-01	7.99E+00	2.99E-03	5.44E-03	6.82E-03	2.17E-01	1.28E-02	2.00E-02	5.24E-01	2.16E-02	4.29E-01	8.16E-03	7.87E-03	1.27E-02	4.40E-03	9.80E-02	7.10E-03	1.71E-02	1.00E-02	5.76E-02	9.47E-02	5.48E-03	3.27E-02	9.88E-04	3.13E-03
857	371816	3769070	2.64E-03	8.89E-02	2.07E-01	7.89E+00	2.84E-03	5.34E-03	6.61E-03	2.11E-01	1.11E-02	1.84E-02	5.15E-01	2.12E-02	4.08E-01	7.96E-03	7.40E-03	1.19E-02	4.21E-03	9.31E-02	6.96E-03	1.60E-02	9.33E-03	5.08E-02	9.57E-02	5.54E-03	3.30E-02	9.99E-04	3.16E-03
732	371841	3768995	9.77E-04	9.33E-02	1.90E-01	8.37E+00	2.69E-03	5.58E-03	6.66E-03	2.14E-01	7.26E-03	1.56E-02	5.37E-01	2.22E-02	3.86E-01	8.14E-03	6.76E-03	1.07E-02	4.06E-03	8.80E-02	7.22E-03	1.44E-02	8.26E-03	3.59E-02	7.45E-02	4.31E-03	2.57E-02	7.77E-04	2.46E-03
813	371766	3769045	8.31E-04	9.02E-02	1.82E-01	8.09E+00	2.58E-03	5.39E-03	6.41E-03	2.06E-01	6.74E-03	1.49E-02	5.18E-01	2.15E-02	3.70E-01	7.84E-03	6.46E-03	1.02E-02	3.90E-03	8.44E-02	6.97E-03	1.38E-02	7.88E-03	3.36E-02	8.23E-02	4.76E-03	2.84E-02	8.59E-04	2.72E-03
817	371866	3769045	2.64E-03	8.36E-02	1.97E-01	7.41E+00	2.69E-03	5.02E-03	6.24E-03	1.99E-01	1.08E-02	1.76E-02	4.84E-01	2.00E-02	3.87E-01	7.50E-03	7.04E-03	1.13E-02	3.99E-03	8.84E-02	6.55E-03	1.53E-02	8.90E-03	4.93E-02	7.65E-02	4.42E-03	2.64E-02	7.98E-04	2.53E-03
730	371716	3768995	6.84E-04	8.49E-02	1.69E-01	7.62E+00	2.41E-03	5.07E-03	6.02E-03	1.93E-01	6.10E-03	1.38E-02	4.88E-01	2.02E-02	3.46E-01	7.37E-03	6.03E-03	9.51E-03	3.65E-03	7.89E-02	6.56E-03	1.28E-02	7.34E-03	3.07E-02	7.04E-02	4.07E-03	2.43E-02	7.34E-04	2.32E-03
859	371866	3769070	3.22E-03	7.65E-02	1.92E-01	6.74E+00	2.60E-03	4.61E-03	5.84E-03	1.86E-01	1.18E-02	1.78E-02	4.45E-01	1.83E-02	3.73E-01	6.96E-03	6.90E-03	1.11E-02	3.81E-03	8.53E-02	6.03E-03	1.51E-02	8.83E-03	5.29E-02	7.62E-02	4.41E-03	2.63E-02	7.95E-04	2.52E-03
775	371866	3769020	1.64E-03	7.31E-02	1.62E-01	6.51E+00	2.25E-03	4.38E-03	5.35E-03	1.71E-01	7.81E-03	1.40E-02	4.22E-01	1.74E-02	3.23E-01	6.47E-03	5.78E-03	9.22E-03	3.35E-03	7.36E-02	5.69E-03	1.25E-02	7.21E-03	3.66E-02	6.77E-02	3.92E-03	2.34E-02	7.06E-04	2.24E-03
769	371716	3769020	6.38E-04	7.27E-02	1.46E-01	6.53E+00	2.08E-03	4.35E-03	5.17E-03	1.66E-01	5.35E-03	1.19E-02	4.18E-01	1.73E-02	2.98E-01	6.32E-03	5.19E-03	8.20E-03	3.14E-03	6.79E-02	5.62E-03	1.11E-02	6.33E-03	2.68E-02	6.47E-02	3.74E-03	2.23E-02	6.75E-04	2.14E-03
856	371791	3769070	1.51E-03	6.91E-02	1.52E-01	6.16E+00	2.12E-03	4.14E-03	5.05E-03	1.62E-01	7.28E-03	1.32E-02	3.99E-01	1.65E-02	3.04E-01	6.12E-03	5.44E-03	8.68E-03	3.16E-03	6.94E-02	5.38E-03	1.17E-02	6.78E-03	3.42E-02	7.27E-02	4.21E-03	2.51E-02	7.59E-04	2.40E-03
692	371816	3768970	5.84E-04	7.30E-02	1.46E-01	6.56E+00	2.07E-03	4.36E-03	5.18E-03	1.66E-01	5.24E-03	1.19E-02	4.20E-01	1.74E-02	2.98E-01	6.34E-03	5.18E-03	8.17E-03	3.14E-03	6.78E-02	5.64E-03	1.10E-02	6.30E-03	2.63E-02	4.38E-02	2.54E-03	1.51E-02	4.58E-04	1.45E-03
900	371841	3769095	3.02E-03	6.36E-02	1.65E-01	5.59E+00	2.22E-03	3.84E-03	4.91E-03	1.56E-01	1.07E-02	1.55E-02	3.70E-01	1.52E-02	3.18E-01	5.83E-03	5.93E-03	9.60E-03	3.24E-03	7.28E-02	5.03E-03	1.30E-02	7.64E-03	4.73E-02	6.47E-02	3.74E-03	2.23E-02	6.75E-04	2.14E-03
733	371866	3768995	9.03E-04	6.27E-02	1.31E-01	5.61E+00	1.84E-03	3.75E-03	4.51E-03	1.45E-01	5.47E-03	1.10E-02	3.61E-01	1.49E-02	2.65E-01	5.49E-03	4.67E-03	7.41E-03	2.77E-03	6.04E-02	4.86E-03	1.00E-02	5.76E-03	2.65E-02	5.99E-02	3.47E-03	2.07E-02	6.25E-04	1.98E-03
901	371866	3769095	3.23E-03	6.14E-02	1.64E-01	5.38E+00	2.19E-03	3.71E-03	4.79E-03	1.52E-01	1.11E-02	1.56E-02	3.58E-01	1.47E-02	3.14E-01	5.67E-03	5.90E-03	9.58E-03	3.19E-03	7.20E-02	4.87E-03	1.30E-02	7.65E-03	4.87E-02	6.09E-02	3.52E-03	2.10E-02	6.36E-04	2.01E-03
812	371741	3769045	5.88E-04	6.12E-02	1.24E-01	5.49E+00	1.75E-03	3.66E-03	4.36E-03	1.40E-01	4.63E-03	1.01E-02	3.52E-01	1.46E-02	2.52E-01	5.32E-03	4.40E-03	6.95E-03	2.65E-03	5.74E-02	4.73E-03	9.38E-03	5.37E-03	2.30E-02	5.31E-02	3.07E-03	1.83E-02	5.54E-04	1.75E-03
860	371891	3769070	2.77E-03	5.97E-02	1.54E-01	5.25E+00	2.07E-03	3.60E-03	4.60E-03	1.46E-01	9.85E-03	1.44E-02	3.47E-01	1.43E-02	2.97E-01	5.46E-03	5.53E-03	8.94E-03	3.03E-03	6.80E-02	4.72E-03	1.21E-02	7.12E-03	4.38E-02	5.59E-02	3.23E-03	1.93E-02	5.83E-04	1.85E-03
855	371766	3769070	9.33E-04	5.70E-02	1.21E-01	5.10E+00	1.70E-03	3.41E-03	4.12E-03	1.32E-01	5.25E-03	1.02E-02	3.28E-01	1.36E-02	2.43E-01	5.01E-03	4.31E-03	6.85E-03	2.55E-03	5.55E-02	4.43E-03	9.25E-03	5.33E-03	2.52E-02	6.16E-02	3.56E-03	2.12E-02	6.42E-04	2.03E-03
729	371691	3768995	6.24E-04	6.08E-02	1.23E-01	5.45E+00	1.75E-03	3.64E-03	4.34E-03	1.39E-01	4.70E-03	1.02E-02	3.50E-01	1.45E-02	2.51E-01	5.30E-03	4.39E-03	6.94E-03	2.64E-03	5.72E-02	4.70E-03	9.37E-03	5.37E-03	2.33E-02	5.01E-02	2.90E-03	1.73E-02	5.22E-04	1.65E-03
770	371741	3769020	4.09E-04	5.16E-02	1.03E-01	4.63E+00	1.46E-03	3.08E-03	3.66E-03	1.17E-01	3.69E-03	8.37E-03	2.96E-01	1.23E-02	2.10E-01	4.48E-03	3.66E-03	5.77E-03	2.22E-03	4.79E-02	3.98E-03	7.79E-03	4.45E-03	1.86E-02	7.59E-02	4.39E-03	2.62E-02	7.93E-04	2.51E-03
818	371891	3769045	2.16E-03	5.71E-02	1.40E-01	5.04E+00	1.90E-03	3.44E-03	4.32E-03	1.37E-01	8.23E-03	1.28E-02	3.31E-01	1.37E-02	2.73E-01	5.17E-03	5.01E-03	8.07E-03	2.80E-03	6.23E-02	4.49E-03	1.09E-02	6.39E-03	3.71E-02	5.22E-02	3.02E-03	1.80E-02	5.45E-04	1.73E-03
899	371816	3769095	2.29E-03	5.48E-02	1.38E-01	4.83E+00	1.86E-03	3.30E-03	4.18E-03	1.33E-01	8.44E-03	1.27E-02	3.19E-01	1.31E-02	2.67E-01	4.99E-03	4.94E-03	7.97E-03	2.73E-03	6.11E-02	4.32E-03	1.08E-02	6.32E-03	3.78E-02	5.48E-02	3.17E-03	1.89E-02	5.72E-04	1.81E-03
902	371891	3769095	2.99E-03	5.37E-02	1.46E-01	4.70E+00	1.94E-03	3.25E-03	4.22E-03	1.33E-01	1.01E-02	1.40E-02	3.14E-01	1.29E-02	2.79E-01	4.98E-03	5.26E-03	8.55E-03	2.83E-03	6.39E-02	4.27E-03	1.16E-02	6.84E-03	4.43E-02	5.14E-02	2.97E-03	1.77E-02	5.36E-04	1.70E-03
650	371816	3768945	4.54E-04	5.60E-02	1.12E-01	5.03E+00	1.59E-03	3.35E-03	3.97E-03	1.28E-01	4.03E-03	9.11E-03	3.22E-01	1.33E-02	2.28E-01	4.86E-03	3.98E-03	6.27E-03	2.41E-03	5.20E-02	4.33E-03	8.47E-03	4.84E-03	2.03E-02	4.22E-02	2.44E-03	1.46E-02	4.40E-04	1.39E-03
1783	371794	3768976.75	4.51E-04	5.68E-02	1.13E-01	5.10E+00	1.61E-03	3.40E-03	4.03E-03	1.30E-01	4.07E-03	9.23E-03	3.27E-01	1.35E-02	2.32E-01	4.94E-03	4.03E-03	6.36E-03	2.44E-03	5.28E-02	4.39E-03	8.58E-03	4.91E-03	2.05E-02	3.49E-02	2.02E-03	1.20E-02	3.64E-04	1.15E-03
776	371891	3769020	1.41E-03	5.05E-02	1.16E-01	4.49E+00	1.60E-03	3.03E-03	3.74E-03	1.19E-01	6.07E-03	1.03E-02	2.92E-01	1.21E-02	2.29E-01	4.51E-03	4.15E-03	6.65E-03	2.37E-03	5.24E-02	3.95E-03	8.98E-03	5.22E-03	2.80E-02	5.03E-02	2.91E-03	1.74E-02	5.25E-04	1.66E-03
693	371841	3768970	4.87E-04	5.45E-02	1.09E-01	4.89E+00	1.56E-03	3.26E-03	3.87E-03	1.24E-01	4.03E-03	8.95E-03	3.13E-01	1.30E-02	2.23E-01	4.74E-03	3.89E-03	6.15E-03	2.35E-03	5.09E-02	4.21E-03	8.30E-03	4.75E-03	2.02E-02	3.78E-02	2.19E-03	1.30E-02	3.94E-04	1.25E-03
771	371766	3769020	3.17E-04	4.00E-02	7.98E-02	3.60E+00	1.14E-03	2.39E-03	2.84E-03	9.12E-02	2.87E-03	6.50E-03	2.30E-01	9.53E-03	1.63E-01	3.48E-03	2.84E-03	4.48E-03	1.72E-03	3.72E-02	3.09E-03	6.05E-03	3.46E-03	1.44E-02	7.76E-02	4.49E-03	2.68E-02	8.10E-04	2.56E-03
1788	371736	3769009	2.94E-04	3.71E-02	7.39E-02	3.33E+00	1.05E-03	2.22E-03	2.63E-03	8.45E-02	2.65E-03	6.02E-03	2.13E-01	8.82E-03	1.51E-01	3.22E-03	2.63E-03	4.15E-03	1.59E-03	3.44E-02	2.86E-03	5.60E-03	3.20E-03	1.34E-02	8.51E-02	4.92E-03	2.94E-02	8.88E-04	2.81E-03
768	371691	3769020	6.06E-04	4.83E-02	9.97E-02	4.33E+00	1.41E-03	2.89E-03	3.46E-03	1.11E-01	4.00E-03	8.30E-03	2.78E-01	1.15E-02	2.02E-01	4.22E-03	3.55E-03	5.62E-03	2.12E-03	4.61E-02	3.74E-03	7.59E-03	4.36E-03	1.96E-02	4.81E-02	2.79E-03	1.66E-02	5.02E-04	1.59E-03
943	371866	3769120	2.88E-03	4.72E-02	1.32E-01	4.11E+00	1.75E-03	2.86E-03	3.74E-03	1.18E-01	9.45E-03	1.28E-02	2.76E-01	1.13E-02	2.51E-01	4.40E-03	4.76E-03	7.75E-03	2.53E-03	5.75E-02	3.76E-03	1.05E-02	6.21E-03	4.13E-02	4.52E-02	2.61E-03	1.56E-02	4.72E-04	1.49E-03
898	371791	3769095	1.50E-03	4.59E-02	1.09E-01	4.07E+00	1.49E-03	2.76E-03	3.44E-03	1.10E-01	6.04E-03	9.78E-03	2.66E-01	1.10E-02	2.14E-01	4.13E-03	3.90E-03	6.26E-03	2.20E-03	4.88E-02	3.60E-03	8.46E-03	4.93E-03	2.75E-02	4.90E-02	2.84E-03	1.69E-02	5.11E-04	1.62E-03
811	371716	3769045	5.74E-04	4.66E-02	9.60E-02	4.17E+00	1.36E-03	2.79E-03	3.34E-03	1.07E-01	3.83E-03	7.98E-03	2.68E-01	1.11E-02	1.95E-01	4.07E-03	3.42E-03	5.41E-03	2.04E-03	4.44E-02	3.61E-03	7.31E-03	4.19E-03	1.88E-02	4.62E-02	2.67E-03	1.59E-02	4.82E-04	1.53E-03
734	371891	3768995	8.50E-04	4.59E-02	9.89E-02	4.10E+00	1.38E-03	2.75E-03	3.33E-03	1.07E-01	4.47E-03	8.45E-03	2.65E-01	1.09E-02	1.98E-01	4.05E-03	3.53E-03	5.62E-03	2.07E-03	4.53E-02	3.57E-03	7.59E-03	4.38E-03	2.13E-02	4.66E-02	2.69E-03	1.61E-02	4.86E-04	1.54E-03
1789	371736	3768984	3.54E-04	4.46E-02	8.90E-02	4.01E+00	1.27E-03	2.67E-03	3.17E-03	1.02E-01	3.19E-03	7.24E-03	2.56E-01	1.06E-02	1.82E-01	3.87E-03	3.17E-03	4.99E-03	1.92E-03	4.14E-02	3.45E-03	6.74E-03	3.85E-03	1.61E-02	4.71E-02	2.73E-03	1.63E-02	4.92E-04	1.56E-03
861	371916	3769070	2.29E-03	4.53E-02	1.20E-01	3.98E+00	1.60E-03	2.74E-03	3.52E-03	1.12E-01	7.94E-03	1.13E-02	2.64E-01	1.09E-02	2.30E-01	4.17E-03	4.31E-03	6.98E-03	2.34E-03	5.27E-02	3.59E-03	9.44E-03	5.57E-03	3.51E-02	4.10E-02	2.37E-03	1.42E-02	4.28E-04	1.36E-03
944	371891	3769120	2.86E-03	4.47E-02	1.27E-01	3.89E+00	1.68E-03	2.71E-03	3.57E-03	1.13E-01	9.29E-03	1.24E-02	2.62E-01	1.08E-02	2.41E-01	4.19E-03	4.59E-03	7.48E-03	2.43E-03	5.52E-02	3.57E-03	1.01E-02	6.00E-03	4.04E-02	4.17E-02	2.41E-03	1.44E-02	4.35E-04	1.38E-03
903	371916	3769095	2.60E-03	4.50E-02	1.24E-01	3.93E+00	1.64E-03	2.72E-03	3.54E-03	1.12E-01	8.68E-03	1.19E-02	2.63E-01	1.08E-02	2.36E-01	4.18E-03	4.46E-03	7.25E-03	2.39E-03	5.40E-02	3.58E-03	9.81E-03	5.80E-03	3.80E-02	4.12E-02	2.38E-03	1.42E-02	4.30E-04	1.36E-03

TABLE 8

PREDICTED OFF-SITE AIR CONCENTRATIONS FROM AIR DISPERSION MODELING[1]

BreitBurn Drill Site

Los Angeles, California

Concentrations reported in micrograms per cubic meter (µg/m^3)

Receptor ID	X-Coor (UTM m)	Y-Coor (UTM m)	Acetone	Benzene	Butane	C5-C8 Hydrocarbons[2]	2-Butanone (Methyl Ethyl Ketone)	Carbon Disulfide	Cumene	Cyclohexane	Ethyl Benzene	4-Ethyltoluene	Hexane	2-Hexanone	Methyl cyclohexane	2-Propanol	Propylbenzene	Tetra-chloroethene	Tetra-hydrofuran	Toluene	Trichloroethene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Total Xylenes	Nitrogen Oxides	Reactive Organic Gases	Carbon Monoxide	Sulfur Oxides	Particulate Matter
688	371716	3768970	3.85E-04	4.75E-02	9.48E-02	4.26E+00	1.35E-03	2.84E-03	3.37E-03	1.08E-01	3.42E-03	7.73E-03	2.73E-01	1.13E-02	1.94E-01	4.12E-03	3.37E-03	5.32E-03	2.04E-03	4.41E-02	3.67E-03	7.18E-03	4.11E-03	1.72E-02	3.14E-02	1.81E-03	1.08E-02	3.27E-04	1.04E-03
942	371841	3769120	2.49E-03	4.34E-02	1.19E-01	3.79E+00	1.58E-03	2.63E-03	3.42E-03	1.08E-01	8.31E-03	1.15E-02	2.54E-01	1.04E-02	2.27E-01	4.03E-03	4.29E-03	6.97E-03	2.30E-03	5.20E-02	3.45E-03	9.43E-03	5.58E-03	3.64E-02	4.15E-02	2.40E-03	1.43E-02	4.33E-04	1.37E-03
694	371866	3768970	4.94E-04	4.41E-02	9.00E-02	3.95E+00	1.27E-03	2.64E-03	3.15E-03	1.01E-01	3.50E-03	7.45E-03	2.53E-01	1.05E-02	1.83E-01	3.84E-03	3.21E-03	5.07E-03	1.92E-03	4.17E-02	3.41E-03	6.85E-03	3.93E-03	1.73E-02	3.39E-02	1.96E-03	1.17E-02	3.54E-04	1.12E-03
897	371766	3769095	1.04E-03	4.02E-02	9.11E-02	3.57E+00	1.26E-03	2.41E-03	2.96E-03	9.47E-02	4.62E-03	8.00E-03	2.32E-01	9.59E-03	1.81E-01	3.58E-03	3.26E-03	5.21E-03	1.87E-03	4.12E-02	3.14E-03	7.03E-03	4.08E-03	2.15E-02	4.42E-02	2.56E-03	1.53E-02	4.61E-04	1.46E-03
854	371741	3769070	6.88E-04	4.21E-02	8.93E-02	3.76E+00	1.25E-03	2.52E-03	3.04E-03	9.74E-02	3.87E-03	7.56E-03	2.43E-01	1.00E-02	1.80E-01	3.70E-03	3.19E-03	5.06E-03	1.88E-03	4.10E-02	3.27E-03	6.83E-03	3.94E-03	1.86E-02	3.84E-02	2.22E-03	1.33E-02	4.01E-04	1.27E-03
819	371916	3769045	1.77E-03	4.15E-02	1.05E-01	3.66E+00	1.41E-03	2.50E-03	3.17E-03	1.01E-01	6.47E-03	9.70E-03	2.41E-01	9.94E-03	2.03E-01	3.78E-03	3.76E-03	6.07E-03	2.07E-03	4.64E-02	3.27E-03	8.20E-03	4.81E-03	2.89E-02	3.89E-02	2.25E-03	1.34E-02	4.06E-04	1.29E-03
649	371791	3768945	3.63E-04	4.55E-02	9.08E-02	4.09E+00	1.29E-03	2.72E-03	3.23E-03	1.04E-01	3.26E-03	7.40E-03	2.62E-01	1.08E-02	1.86E-01	3.96E-03	3.23E-03	5.10E-03	1.96E-03	4.23E-02	3.52E-03	6.88E-03	3.93E-03	1.64E-02	2.58E-02	1.49E-03	8.91E-03	2.69E-04	8.52E-04
1782	371791	3768974	3.37E-04	4.26E-02	8.48E-02	3.82E+00	1.21E-03	2.54E-03	3.02E-03	9.70E-02	3.05E-03	6.91E-03	2.45E-01	1.01E-02	1.73E-01	3.70E-03	3.02E-03	4.76E-03	1.83E-03	3.95E-02	3.29E-03	6.43E-03	3.67E-03	1.53E-02	3.28E-02	1.90E-03	1.13E-02	3.42E-04	1.08E-03
945	371916	3769120	2.65E-03	4.03E-02	1.16E-01	3.51E+00	1.52E-03	2.44E-03	3.23E-03	1.02E-01	8.54E-03	1.13E-02	2.36E-01	9.70E-03	2.19E-01	3.79E-03	4.17E-03	6.81E-03	2.20E-03	5.01E-02	3.22E-03	9.21E-03	5.47E-03	3.71E-02	3.67E-02	2.12E-03	1.27E-02	3.83E-04	1.21E-03
687	371691	3768970	4.46E-04	4.32E-02	8.76E-02	3.87E+00	1.24E-03	2.58E-03	3.08E-03	9.88E-02	3.34E-03	7.22E-03	2.48E-01	1.03E-02	1.78E-01	3.76E-03	3.12E-03	4.93E-03	1.88E-03	4.06E-02	3.34E-03	6.66E-03	3.81E-03	1.66E-02	2.94E-02	1.70E-03	1.02E-02	3.07E-04	9.72E-04
728	371666	3768995	6.42E-04	4.03E-02	8.53E-02	3.61E+00	1.20E-03	2.42E-03	2.91E-03	9.33E-02	3.67E-03	7.21E-03	2.32E-01	9.61E-03	1.72E-01	3.54E-03	3.04E-03	4.83E-03	1.80E-03	3.92E-02	3.13E-03	6.52E-03	3.76E-03	1.77E-02	3.58E-02	2.07E-03	1.23E-02	3.73E-04	1.18E-03
777	371916	3769020	1.22E-03	3.82E-02	9.00E-02	3.38E+00	1.23E-03	2.29E-03	2.85E-03	9.09E-02	4.95E-03	8.08E-03	2.21E-01	9.12E-03	1.77E-01	3.43E-03	3.22E-03	5.17E-03	1.82E-03	4.04E-02	2.99E-03	6.99E-03	4.08E-03	2.26E-02	3.90E-02	2.25E-03	1.34E-02	4.07E-04	1.29E-03
1787	371745	3769009	1.80E-04	2.28E-02	4.54E-02	2.05E+00	6.46E-04	1.36E-03	1.62E-03	5.19E-02	1.63E-03	3.70E-03	1.31E-01	5.42E-03	9.28E-02	1.98E-03	1.62E-03	2.55E-03	9.79E-04	2.11E-02	1.76E-03	3.44E-03	1.97E-03	8.20E-03	8.20E-02	4.75E-03	2.83E-02	8.56E-04	2.71E-03
1778	371736	3768977.75	3.04E-04	3.83E-02	7.64E-02	3.44E+00	1.09E-03	2.29E-03	2.72E-03	8.73E-02	2.74E-03	6.22E-03	2.20E-01	9.11E-03	1.56E-01	3.33E-03	2.72E-03	4.29E-03	1.65E-03	3.56E-02	2.96E-03	5.78E-03	3.31E-03	1.38E-02	3.41E-02	1.97E-03	1.18E-02	3.56E-04	1.13E-03
1790	371736	3768977.75	3.04E-04	3.83E-02	7.64E-02	3.44E+00	1.09E-03	2.29E-03	2.72E-03	8.73E-02	2.74E-03	6.22E-03	2.20E-01	9.11E-03	1.56E-01	3.33E-03	2.72E-03	4.29E-03	1.65E-03	3.56E-02	2.96E-03	5.78E-03	3.31E-03	1.38E-02	3.41E-02	1.97E-03	1.18E-02	3.56E-04	1.13E-03
941	371816	3769120	1.91E-03	3.70E-02	9.82E-02	3.24E+00	1.31E-03	2.23E-03	2.88E-03	9.12E-02	6.57E-03	9.32E-03	2.15E-01	8.86E-03	1.88E-01	3.41E-03	3.53E-03	5.73E-03	1.91E-03	4.31E-02	2.93E-03	7.75E-03	4.57E-03	2.90E-02	3.58E-02	2.07E-03	1.24E-02	3.74E-04	1.18E-03
651	371841	3768945	3.25E-04	3.69E-02	7.40E-02	3.31E+00	1.05E-03	2.21E-03	2.62E-03	8.42E-02	2.72E-03	6.06E-03	2.12E-01	8.78E-03	1.51E-01	3.21E-03	2.64E-03	4.16E-03	1.59E-03	3.44E-02	2.85E-03	5.61E-03	3.21E-03	1.36E-02	3.63E-02	2.10E-03	1.25E-02	3.79E-04	1.20E-03
810	371691	3769045	6.39E-04	3.63E-02	7.77E-02	3.24E+00	1.09E-03	2.17E-03	2.63E-03	8.42E-02	3.45E-03	6.61E-03	2.09E-01	8.65E-03	1.56E-01	3.19E-03	2.77E-03	4.41E-03	1.63E-03	3.56E-02	2.82E-03	5.95E-03	3.43E-03	1.65E-02	3.77E-02	2.18E-03	1.30E-02	3.93E-04	1.24E-03
735	371916	3768995	7.96E-04	3.56E-02	7.88E-02	3.17E+00	1.09E-03	2.13E-03	2.61E-03	8.33E-02	3.80E-03	6.83E-03	2.05E-01	8.49E-03	1.57E-01	3.15E-03	2.81E-03	4.49E-03	1.63E-03	3.59E-02	2.77E-03	6.06E-03	3.51E-03	1.78E-02	3.67E-02	2.12E-03	1.27E-02	3.83E-04	1.21E-03
986	371891	3769145	2.56E-03	3.64E-02	1.07E-01	3.15E+00	1.40E-03	2.21E-03	2.94E-03	9.26E-02	8.12E-03	1.06E-02	2.13E-01	8.75E-03	2.01E-01	3.44E-03	3.86E-03	6.31E-03	2.02E-03	4.62E-02	2.91E-03	8.54E-03	5.08E-03	3.51E-02	3.29E-02	1.90E-03	1.14E-02	3.43E-04	1.09E-03
904	371941	3769095	2.19E-03	3.63E-02	1.01E-01	3.17E+00	1.34E-03	2.20E-03	2.88E-03	9.10E-02	7.22E-03	9.81E-03	2.12E-01	8.73E-03	1.93E-01	3.39E-03	3.65E-03	5.94E-03	1.95E-03	4.41E-02	2.89E-03	8.04E-03	4.76E-03	3.15E-02	3.21E-02	1.86E-03	1.11E-02	3.35E-04	1.06E-03
767	371666	3769020	6.71E-04	3.50E-02	7.58E-02	3.13E+00	1.06E-03	2.10E-03	2.55E-03	8.15E-02	3.46E-03	6.49E-03	2.02E-01	8.35E-03	1.52E-01	3.09E-03	2.71E-03	4.31E-03	1.58E-03	3.47E-02	2.72E-03	5.82E-03	3.36E-03	1.64E-02	3.57E-02	2.07E-03	1.23E-02	3.73E-04	1.18E-03
985	371866	3769145	2.40E-03	3.53E-02	1.03E-01	3.07E+00	1.35E-03	2.14E-03	2.84E-03	8.96E-02	7.68E-03	1.01E-02	2.07E-01	8.49E-03	1.93E-01	3.33E-03	3.70E-03	6.04E-03	1.95E-03	4.44E-02	2.83E-03	8.18E-03	4.86E-03	3.33E-02	3.23E-02	1.87E-03	1.11E-02	3.37E-04	1.07E-03
946	371941	3769120	2.33E-03	3.50E-02	1.01E-01	3.04E+00	1.33E-03	2.12E-03	2.80E-03	8.85E-02	7.49E-03	9.89E-03	2.05E-01	8.41E-03	1.90E-01	3.29E-03	3.64E-03	5.94E-03	1.92E-03	4.37E-02	2.80E-03	8.03E-03	4.77E-03	3.25E-02	3.09E-02	1.79E-03	1.07E-02	3.23E-04	1.02E-03
695	371891	3768970	5.11E-04	3.56E-02	7.44E-02	3.19E+00	1.05E-03	2.13E-03	2.56E-03	8.21E-02	3.10E-03	6.25E-03	2.05E-01	8.48E-03	1.50E-01	3.12E-03	2.65E-03	4.21E-03	1.58E-03	3.43E-02	2.76E-03	5.68E-03	3.27E-03	1.50E-02	3.00E-02	1.73E-03	1.03E-02	3.13E-04	9.90E-04
940	371791	3769120	1.38E-03	3.33E-02	8.34E-02	2.94E+00	1.13E-03	2.01E-03	2.54E-03	8.08E-02	5.10E-03	7.71E-03	1.94E-01	7.98E-03	1.62E-01	3.03E-03	3.00E-03	4.83E-03	1.66E-03	3.71E-02	2.63E-03	6.53E-03	3.83E-03	2.28E-02	3.51E-02	2.03E-03	1.21E-02	3.66E-04	1.16E-03
987	371916	3769145	2.51E-03	3.46E-02	1.03E-01	3.00E+00	1.35E-03	2.10E-03	2.81E-03	8.84E-02	7.90E-03	1.02E-02	2.03E-01	8.33E-03	1.93E-01	3.28E-03	3.71E-03	6.07E-03	1.94E-03	4.43E-02	2.78E-03	8.22E-03	4.90E-03	3.41E-02	3.07E-02	1.78E-03	1.06E-02	3.21E-04	1.02E-03
862	371941	3769070	1.87E-03	3.46E-02	9.32E-02	3.03E+00	1.24E-03	2.09E-03	2.71E-03	8.57E-02	6.34E-03	8.89E-03	2.02E-01	8.30E-03	1.78E-01	3.20E-03	3.35E-03	5.44E-03	1.81E-03	4.08E-02	2.75E-03	7.36E-03	4.35E-03	2.79E-02	3.08E-02	1.78E-03	1.06E-02	3.22E-04	1.02E-03
609	371841	3768920	3.12E-04	3.28E-02	6.61E-02	2.94E+00	9.39E-04	1.96E-03	2.33E-03	7.49E-02	2.47E-03	5.43E-03	1.88E-01	7.80E-03	1.35E-01	2.85E-03	2.35E-03	3.72E-03	1.42E-03	3.07E-02	2.53E-03	5.02E-03	2.87E-03	1.23E-02	3.12E-02	1.80E-03	1.08E-02	3.25E-04	1.03E-03
853	371716	3769070	6.31E-04	3.18E-02	6.91E-02	2.84E+00	9.64E-04	1.91E-03	2.31E-03	7.40E-02	3.20E-03	5.94E-03	1.83E-01	7.58E-03	1.38E-01	2.81E-03	2.47E-03	3.93E-03	1.44E-03	3.16E-02	2.47E-03	5.31E-03	3.07E-03	1.51E-02	3.31E-02	1.92E-03	1.14E-02	3.46E-04	1.09E-03
820	371941	3769045	1.46E-03	3.19E-02	8.19E-02	2.80E+00	1.10E-03	1.92E-03	2.45E-03	7.78E-02	5.21E-03	7.65E-03	1.85E-01	7.64E-03	1.58E-01	2.92E-03	2.94E-03	4.76E-03	1.61E-03	3.62E-02	2.52E-03	6.43E-03	3.78E-03	2.32E-02	3.02E-02	1.75E-03	1.04E-02	3.15E-04	9.98E-04
896	371741	3769095	8.01E-04	3.15E-02	7.12E-02	2.80E+00	9.85E-04	1.89E-03	2.32E-03	7.42E-02	3.59E-03	6.25E-03	1.82E-01	7.52E-03	1.41E-01	2.81E-03	2.55E-03	4.07E-03	1.47E-03	3.23E-02	2.46E-03	5.50E-03	3.19E-03	1.67E-02	2.98E-02	1.73E-03	1.03E-02	3.11E-04	9.86E-04
608	371816	3768920	2.93E-04	3.34E-02	6.70E-02	3.00E+00	9.53E-04	2.00E-03	2.37E-03	7.62E-02	2.46E-03	5.48E-03	1.92E-01	7.95E-03	1.37E-01	2.90E-03	2.39E-03	3.76E-03	1.44E-03	3.12E-02	2.58E-03	5.08E-03	2.91E-03	1.23E-02	2.43E-02	1.41E-03	8.40E-03	2.54E-04	8.04E-04
988	371941	3769145	2.31E-03	3.16E-02	9.43E-02	2.73E+00	1.23E-03	1.92E-03	2.57E-03	8.08E-02	7.27E-03	9.36E-03	1.85E-01	7.60E-03	1.77E-01	3.00E-03	3.40E-03	5.57E-03	1.77E-03	4.06E-02	2.53E-03	7.53E-03	4.49E-03	3.14E-02	2.75E-02	1.59E-03	9.50E-03	2.87E-04	9.10E-04
939	371766	3769120	1.04E-03	2.99E-02	7.19E-02	2.65E+00	9.81E-04	1.80E-03	2.25E-03	7.16E-02	4.10E-03	6.51E-03	1.73E-01	7.15E-03	1.41E-01	2.70E-03	2.58E-03	4.14E-03	1.45E-03	3.22E-02	2.35E-03	5.60E-03	3.27E-03	1.86E-02	3.24E-02	1.88E-03	1.12E-02	3.39E-04	1.07E-03
686	371666	3768970	5.15E-04	3.27E-02	6.91E-02	2.92E+00	9.70E-04	1.96E-03	2.36E-03	7.56E-02	2.96E-03	5.83E-03	1.88E-01	7.79E-03	1.39E-01	2.87E-03	2.46E-03	3.91E-03	1.46E-03	3.18E-02	2.54E-03	5.28E-03	3.04E-03	1.43E-02	2.49E-02	1.44E-03	8.59E-03	2.60E-04	8.22E-04
984	371841	3769145	2.02E-03	3.10E-02	8.87E-02	2.69E+00	1.17E-03	1.88E-03	2.48E-03	7.82E-02	6.53E-03	8.67E-03	1.81E-01	7.45E-03	1.68E-01	2.91E-03	3.20E-03	5.22E-03	1.69E-03	3.84E-02	2.47E-03	7.06E-03	4.19E-03	2.84E-02	2.81E-02	1.63E-03	9.72E-03	2.94E-04	9.30E-04
778	371941	3769020	1.05E-03	3.00E-02	7.22E-02	2.66E+00	9.84E-04	1.81E-03	2.26E-03	7.19E-02	4.11E-03	6.54E-03	1.74E-01	7.18E-03	1.41E-01	2.71E-03	2.59E-03	4.16E-03	1.45E-03	3.23E-02	2.36E-03	5.62E-03	3.28E-03	1.87E-02	3.05E-02	1.76E-03	1.05E-02	3.18E-04	1.01E-03
1779	371739	3768975	2.38E-04	3.00E-02	5.98E-02	2.69E+00	8.52E-04	1.79E-03	2.13E-03	6.83E-02	2.15E-03	4.87E-03	1.72E-01	7.14E-03	1.22E-01	2.60E-03	2.13E-03	3.36E-03	1.29E-03	2.78E-02	2.32E-03	4.53E-03	2.59E-03	1.08E-02	2.71E-02	1.57E-03	9.36E-03	2.83E-04	8.95E-04
947	371966	3769120	2.02E-03	2.97E-02	8.63E-02	2.58E+00	1.13E-03	1.80E-03	2.39E-03	7.53E-02	6.46E-03	8.49E-03	1.74E-01	7.14E-03	1.63E-01	2.80E-03	3.11E-03	5.08E-03	1.64E-03	3.73E-02	2.37E-03	6.88E-03	4.09E-03	2.80E-02	2.55E-02	1.48E-03	8.82E-03	2.67E-04	8.44E-04
809	371666	3769045	7.21E-04	2.88E-02	6.48E-02	2.56E+00	8.97E-04	1.73E-03	2.12E-03	6.77E-02	3.26E-03	5.68E-03	1.66E-01	6.87E-03	1.29E-01	2.56E-03	2.32E-03	3.71E-03	1.34E-03	2.94E-02	2.25E-03	5.01E-03	2.90E-03	1.51E-02	2.84E-02	1.64E-03	9.79E-03	2.96E-04	9.37E-04
736	371941	3768995	7.38E-04	2.85E-02	6.45E-02	2.53E+00	8.91E-04	1.71E-03	2.10E-03	6.71E-02	3.28E-03	5.67E-03	1.65E-01	6.79E-03	1.28E-01	2.53E-03	2.31E-03	3.69E-03	1.33E-03	2.92E-02	2.22E-03	4.98E-03	2.89E-03	1.52E-02	2.92E-02	1.69E-03	1.01E-02	3.05E-04	9.65E-04
696	371916	3768970	5.29E-04	2.94E-02	6.31E-02	2.63E+00	8.83E-04	1.76E-03	2.13E-03	6.83E-02	2.82E-03	5.38E-03	1.70E-01	7.01E-03	1.27E-01	2.59E-03	2.25E-03	3.58E-03	1.32E-03	2.89E-02	2.29E-03	4.84E-03	2.79E-03	1.35E-02	2.64E-02	1.53E-03	9.12E-03	2.76E-04	8.73E-04
905	371966	3769095	1.84E-03	2.93E-02	8.27E-02	2.55E+00	1.09E-03	1.77E-03	2.33E-03	7.36E-02	5.99E-03	8.05E-03	1.71E-01	7.03E-03	1.57E-01	2.74E-03	2.98E-03	4.86E-03	1.58E-03	3.59E-02	2.33E-03	6.57E-03	3.90E-03	2.61E-02	2.53E-02	1.46E-03	8.73E-03	2.64E-04	8.36E-04
1029	371916	3769170	2.25E-03	2.90E-02	8.86E-02	2.51E+00	1.15E-03	1.77E-03	2.38E-03	7.48E-02	6.99E-03	8.87E-03	1.71E-01	7.00E-03	1.66E-01	2.77E-03	3.20E-03	5.24E-03	1.66E-03	3.80E-02	2.34E-03	7.10E-03	4.24E-03	3.01E-02	2.51E-02	1.45E-03	8.66E-03	2.62E-04	8.29E-04
727	371641	3768995	6.90E-04	2.88E-02	6.45E-02	2.57E+00	8.93E-04	1.73E-03	2.12E-03	6.77E-02	3.18E-03	5.63E-03	1.67E-01	6.88E-03	1.28E-01	2.56E-03	2.31E-03	3.68E-03	1.33E-03	2.93E-02	2.25E-03	4.97E-03	2.88E-03	1.49E-02	2.62E-02	1.51E-03	9.04E-03	2.73E-04	8.65E-04

TABLE 8

PREDICTED OFF-SITE AIR CONCENTRATIONS FROM AIR DISPERSION MODELING[1]

BreitBurn Drill Site

Los Angeles, California

Concentrations reported in micrograms per cubic meter (µg/m^3)

Receptor ID	X-Coor (UTM m)	Y-Coor (UTM m)	Acetone	Benzene	Butane	C5-C8 Hydrocarbons[2]	2-Butanone (Methyl Ethyl Ketone)	Carbon Disulfide	Cumene	Cyclohexane	Ethyl Benzene	4-Ethyltoluene	Hexane	2-Hexanone	Methyl cyclohexane	2-Propanol	Propylbenzene	Tetra-chloroethene	Tetra-hydrofuran	Toluene	Trichloroethene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Total Xylenes	Nitrogen Oxides	Reactive Organic Gases	Carbon Monoxide	Sulfur Oxides	Particulate Matter
1028	371891	3769170	2.17E-03	2.88E-02	8.69E-02	2.49E+00	1.13E-03	1.75E-03	2.35E-03	7.39E-02	6.78E-03	8.67E-03	1.69E-01	6.93E-03	1.63E-01	2.74E-03	3.14E-03	5.14E-03	1.63E-03	3.73E-02	2.31E-03	6.95E-03	4.15E-03	2.92E-02	2.51E-02	1.45E-03	8.66E-03	2.62E-04	8.29E-04
989	371966	3769145	2.07E-03	2.81E-02	8.41E-02	2.43E+00	1.10E-03	1.71E-03	2.29E-03	7.20E-02	6.50E-03	8.36E-03	1.65E-01	6.77E-03	1.58E-01	2.67E-03	3.04E-03	4.97E-03	1.58E-03	3.62E-02	2.26E-03	6.73E-03	4.01E-03	2.81E-02	2.40E-02	1.39E-03	8.30E-03	2.51E-04	7.94E-04
983	371816	3769145	1.59E-03	2.74E-02	7.55E-02	2.39E+00	1.00E-03	1.66E-03	2.16E-03	6.83E-02	5.31E-03	7.28E-03	1.60E-01	6.57E-03	1.44E-01	2.55E-03	2.72E-03	4.42E-03	1.45E-03	3.30E-02	2.18E-03	5.98E-03	3.54E-03	2.32E-02	2.61E-02	1.51E-03	9.00E-03	2.72E-04	8.61E-04
652	371866	3768945	2.89E-04	2.69E-02	5.47E-02	2.41E+00	7.75E-04	1.61E-03	1.92E-03	6.16E-02	2.11E-03	4.52E-03	1.55E-01	6.40E-03	1.11E-01	2.34E-03	1.95E-03	3.08E-03	1.17E-03	2.54E-02	2.08E-03	4.16E-03	2.38E-03	1.04E-02	2.75E-02	1.59E-03	9.48E-03	2.87E-04	9.07E-04
852	371691	3769070	6.69E-04	2.69E-02	6.05E-02	2.39E+00	8.37E-04	1.61E-03	1.98E-03	6.32E-02	3.03E-03	5.30E-03	1.55E-01	6.41E-03	1.20E-01	2.39E-03	2.16E-03	3.46E-03	1.25E-03	2.74E-02	2.10E-03	4.67E-03	2.71E-03	1.41E-02	2.70E-02	1.56E-03	9.32E-03	2.82E-04	8.92E-04
863	371966	3769070	1.55E-03	2.74E-02	7.48E-02	2.39E+00	9.94E-04	1.66E-03	2.15E-03	6.81E-02	5.20E-03	7.18E-03	1.60E-01	6.57E-03	1.43E-01	2.54E-03	2.69E-03	4.38E-03	1.45E-03	3.27E-02	2.18E-03	5.92E-03	3.50E-03	2.28E-02	2.44E-02	1.41E-03	8.41E-03	2.54E-04	8.05E-04
766	371641	3769020	7.29E-04	2.68E-02	6.12E-02	2.38E+00	8.44E-04	1.61E-03	1.98E-03	6.32E-02	3.17E-03	5.41E-03	1.55E-01	6.39E-03	1.21E-01	2.39E-03	2.19E-03	3.51E-03	1.25E-03	2.77E-02	2.09E-03	4.74E-03	2.75E-03	1.47E-02	2.65E-02	1.53E-03	9.13E-03	2.76E-04	8.74E-04
1030	371941	3769170	2.16E-03	2.75E-02	8.44E-02	2.37E+00	1.10E-03	1.67E-03	2.26E-03	7.10E-02	6.69E-03	8.46E-03	1.62E-01	6.63E-03	1.57E-01	2.63E-03	3.05E-03	5.00E-03	1.57E-03	3.61E-02	2.21E-03	6.76E-03	4.04E-03	2.88E-02	2.34E-02	1.35E-03	8.07E-03	2.44E-04	7.72E-04
691	371791	3768970	2.00E-04	2.53E-02	5.04E-02	2.27E+00	7.18E-04	1.51E-03	1.79E-03	5.76E-02	1.81E-03	4.11E-03	1.45E-01	6.02E-03	1.03E-01	2.20E-03	1.79E-03	2.83E-03	1.09E-03	2.35E-02	1.95E-03	3.82E-03	2.18E-03	9.11E-03	3.06E-02	1.77E-03	1.06E-02	3.19E-04	1.01E-03
982	371791	3769145	1.24E-03	2.56E-02	6.67E-02	2.24E+00	8.95E-04	1.54E-03	1.98E-03	6.27E-02	4.35E-03	6.29E-03	1.49E-01	6.13E-03	1.28E-01	2.35E-03	2.40E-03	3.89E-03	1.31E-03	2.94E-02	2.02E-03	5.25E-03	3.10E-03	1.93E-02	2.62E-02	1.52E-03	9.06E-03	2.74E-04	8.67E-04
1027	371866	3769170	1.96E-03	2.64E-02	7.92E-02	2.28E+00	1.03E-03	1.60E-03	2.15E-03	6.77E-02	6.14E-03	7.88E-03	1.55E-01	6.36E-03	1.48E-01	2.51E-03	2.86E-03	4.68E-03	1.49E-03	3.41E-02	2.12E-03	6.33E-03	3.77E-03	2.65E-02	2.30E-02	1.33E-03	7.94E-03	2.40E-04	7.60E-04
821	371966	3769045	1.23E-03	2.57E-02	6.68E-02	2.26E+00	8.96E-04	1.55E-03	1.98E-03	6.29E-02	4.33E-03	6.28E-03	1.50E-01	6.16E-03	1.29E-01	2.36E-03	2.40E-03	3.89E-03	1.31E-03	2.95E-02	2.03E-03	5.26E-03	3.10E-03	1.92E-02	2.45E-02	1.41E-03	8.44E-03	2.55E-04	8.08E-04
610	371866	3768920	2.80E-04	2.44E-02	4.99E-02	2.19E+00	7.07E-04	1.46E-03	1.74E-03	5.59E-02	1.96E-03	4.14E-03	1.40E-01	5.81E-03	1.01E-01	2.13E-03	1.78E-03	2.81E-03	1.07E-03	2.31E-02	1.89E-03	3.80E-03	2.18E-03	9.63E-03	2.69E-02	1.56E-03	9.29E-03	2.81E-04	8.89E-04
779	371966	3769020	9.31E-04	2.48E-02	6.06E-02	2.19E+00	8.24E-04	1.49E-03	1.88E-03	5.97E-02	3.56E-03	5.54E-03	1.44E-01	5.93E-03	1.18E-01	2.24E-03	2.17E-03	3.50E-03	1.21E-03	2.70E-02	1.95E-03	4.73E-03	2.77E-03	1.61E-02	2.50E-02	1.45E-03	8.64E-03	2.61E-04	8.27E-04

Notes:

[1] Selected receptors nearest the facility.

[2] Concentrations were not estimated for tower and cellar emissions for these receptors because of proximity to the buildings or wall.

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TABLE 9

EXPOSURE ASSUMPTIONS[1]

BreitBurn Drill Site
Los Angeles, California

Exposure Parameter	Units	Resident	Commercial/Industrial Worker[2]
GENERAL EXPOSURE PARAMETERS			
Exposure Frequency (EF)	days/year	350	245
Exposure Duration (ED)	years	70	40
Averaging Time (AT)	days	25,550	25,550
PATHWAY-SPECIFIC PARAMETERS			
Inhalation			
Daily Breathing Rate (DBR)[3]	L/kg-day	302	149
Inhalation Absorption Factor (A)	Unitless	1	1

Note:

1 Inhalation exposure is calculated as: Cair * DBR * A * EF *ED * 10^{-6}/AT (OEHHA, 2003)
2 The daily breathing rate for this receptor accounts for daily exposure for 8 hours per day.
3 The daily breathing rate for the residential receptor was based on California Air Resources guidance when a single point estimate of health risk is being calculated for risk management purposes (CARB, 2003).

Geomatrix

TABLE 10

SUMMARY OF TOXICITY CRITERIA
FOR CHEMICALS OF POTENTIAL CONCERN

BreitBurn Drill Site
Los Angeles, California

Chemical	Acute REL[1] µg/m^3	Chronic REL[1] µg/m^3	Cancer Slope Factor[2] (mg/kg-day)$^{-1}$
Acetone	62,000	31,000	--
Benzene	1,300	60	0.1
Butane	238,000	--	--
C5 to C8 Hydrocarbons	NA	18,400	
2-Butanone (Methyl Ethyl Ketone)	13,000	5,000	--
Carbon Disulfide	6,200	800	--
Cumene	24,600	400	--
Cyclohexane	34,400	6,000	--
Ethylbenzene	4,340	2,000	--
4-Ethyltoluene	22,000	700	--
Heptane	163,900	18,400	--
Hexane	180,000	200	--
2-Hexanone	20,500	3,000	--
Total Methyl pentanes	180,000	18,400	--
2-Methyl butane	180,000	18,400	--
Methyl cyclohexane	161,000	3,000	--
Methyl cyclopentane	138,000	18,400	--
Pentane	177,000	18,400	--
2-Propanol	49,100	32,000	--
Propylbenzene	4,910	140	--
Tetrachloroethene	20,000	270	0.021
Tetrahydrofuran	59,000	301	--
Toluene	37,000	300	--
Trichloroethene	10,700	600	0.007
1,2,4-Trimethylbenzene	12,300	6	--
1,3,5-Trimethylbenzene	12,300	6	--
Total Xylenes	22,000	700	--

TABLE 10

SUMMARY OF TOXICITY CRITERIA
FOR CHEMICALS OF POTENTIAL CONCERN

BreitBurn Drill Site
Los Angeles, California

Chemical	Acute REL[1] µg/m^3	Chronic REL[1] µg/m^3	Cancer Slope Factor[2] (mg/kg-day)$^{-1}$
Associated With Diesel Emissions:			
Nitrogen Oxides	470	470	--
Reactive Organic Gases	13,000	1,000	--
Carbon Monoxide	23,000	10,000	--
Sulfur Oxides	660	660	--
Particulate Matter	50,000	5	1.1

Notes:

[1] Reference Exposure Limits (REL); various sources; for derivation of values, see Appendix C.

[2] Office of Environmental Health Hazard Assessment (OEHHA), 2005, Cancer Potency Factors.

Definitions:
-- = not available or not applicable

Geomatrix

TABLE 11

ESTIMATED CHRONIC NONCARCINOGENIC HAZARD INDEXES

BreitBurn Drill Site

Los Angeles, California

Description	Acetone	Benzene	C5-C8 Hydrocarbons[1]	2-Butanone	Carbon Disulfide	Cumene	Cyclohexane	Ethyl Benzene	4-Ethyltoluene	Hexane	2-Hexanone	Methyl cyclohexane	2-Propanol	Propylbenzene	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Total Xylenes	Nitrogen Oxides	Reactive Organic Gases	Carbon Monoxide	Sulfur Oxides	Particulate Matter	TOTAL HAZARD INDEX
Reference Concentration (RfC) (µg/m^3)	31,000	60	18,400	5,000	800	400	6,000	2,000	200	200	3,000	3,000	32,000	140	270	301	300	600	6	6	700	470	1,000	10,000	660	5	
MEIR[2]																											
Predicted Air Concentration (µg/m^3)	0.00218	0.213	19.1	0.0061	0.0128	0.0152	0.488	0.0164	0.0356	1.23	0.0507	0.880	0.0186	0.0154	0.0243	0.00926	0.201	0.0165	0.0328	0.0188	0.0815	0.16492	0.00954	0.0569	0.00172	0.00545	
Exposure Factor[3]	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
Hazard Index[4]	7.0E-08	3.6E-03	1.0E-03	1.2E-06	1.6E-05	3.8E-05	8.1E-05	8.2E-06	1.8E-04	6.1E-03	1.7E-05	2.9E-04	5.8E-07	1.1E-04	9.0E-05	3.1E-05	6.7E-04	2.7E-05	5.5E-03	3.2E-03	1.2E-04	3.5E-04	9.5E-06	5.7E-06	2.6E-06	1.1E-03	2E-02
MEIW[5]																											
Predicted Air Concentration (µg/m^3)	0.00122	0.150	13.4	0.00426	0.00895	0.0106	0.341	0.0108	0.0244	0.86065	0.0356	0.611	0.0130	0.0106	0.0168	0.00644	0.139	0.0116	0.0227	0.0130	0.0543	0.274	0.0158	0.0945	0.00286	0.00905	
Exposure Factor[3]	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	
Hazard Index[4]	8.8E-09	5.6E-04	1.6E-04	1.9E-07	2.5E-06	5.9E-06	1.3E-05	1.2E-06	2.7E-05	9.6E-04	2.7E-06	4.6E-05	9.1E-08	1.7E-05	1.4E-05	4.8E-06	1.0E-04	4.3E-06	8.5E-04	4.9E-04	1.7E-05	1.3E-04	3.5E-06	2.1E-06	9.7E-07	4.0E-04	4E-03

Notes:

[1] Includes emissions of heptane, total methylpentanes, pentane, methylbutane, methylcyclopentane.

[2] Maximum Exposed Individual Resident (Receptor 773)

[3] Residential receptor assumed to be exposed 100% of the time. Exposure factor for occupational exposure duration represents 8 out of 24 hours and 245 out of 365 days per year (22%).

[4] Hazard Index = concentration x exposure factor / RfC

[5] Maximum Exposed Individual Worker (Receptor 772)

TABLE 12

ESTIMATED CARCINOGENIC RISK

BreitBurn Drill Site

Los Angeles, California

Description	Benzene	Tetrachloroethene	Trichloroethene	Particulate Matter	TOTAL CANCER RISK
Cancer Inhalation Unit Risk ($\mu g/m^3)^{-1}$	0.1	0.007	0.007	1.1	
MEIR[1]					
Predicted Air Concentration ($\mu g/m^3$)	2.1E-01	2.4E-02	1.6E-02	5.4E-03	
Exposure Factor[2]	2.9E-04	2.9E-04	2.9E-04	2.9E-04	
Cancer Risk	6.2E-06	4.9E-08	3.3E-08	1.7E-06	8E-06
MEIW[3]					
Predicted Air Concentration ($\mu g/m^3$)	1.5E-01	1.7E-02	1.2E-02	9.0E-03	
Exposure Factor[4]	5.7E-05	5.7E-05	5.7E-05	5.7E-05	
Cancer Risk	8.6E-07	6.7E-09	4.6E-09	5.7E-07	1E-06

Notes:

[1] Maximum Exposed Individual Resident (Receptor 773)

[2] The Exposure Factor was calculated as:

302 L/kg-day*0.001 m3/L *0.001 mg/mg * 350/365days*70years/70 years (2.9x10-4)

[3] Maximum Exposed Individual Worker (Receptor 772)

[4] The Exposure Factor was calculated as:

149 L/kg-day *0.001 m3/L * 0.001 mg/mg * 245/365 days *40/70 years (5.7x10-5)

Geomatrix

TABLE 13

POTENTIAL CARCINOGENIC RISK AT KEY OFF-SITE RECEPTORS

BreitBurn Drill Site

Los Angeles, California

Description	Address	Receptor ID #	Cancer Risk - Residential Scenario[1]	Cancer Risk - Worker Scenario[2]
Garden School: Chabad Westside Preschool	9051 W. Pico Blvd	693	2.0E-06	4.0E-07
		694	1.7E-06	3.3E-07
		695	1.4E-06	2.7E-07
		732	3.6E-06	7.0E-07
		733	2.5E-06	4.9E-07
		734	1.9E-06	3.7E-07

Note:

[1] Calculations presented in Appendix E as a residential-scenario.

[2] Risk adjusted for an adult worker scenario; calculated as:

Cancer Risk * 149/302 * 245/350 days *40/70 years (0.2)

Geomatrix

TABLE 14

SUMMARY OF HUMAN HEALTH RISKS

BreitBurn Drill Site

Los Angeles, California

Location	Maximum Detected Concentration	Maximum Exposed Individual Resident		Maximum Exposed Individual Worker	
	Acute Noncancer Hazard Index	Chronic Noncancer Hazard Index	Cancer Risk	Chronic Noncancer Hazard Index	Cancer Risk
Acetone	2.4E-03	7.0E-08	NA	8.8E-09	NA
Benzene	1.6E-03	3.6E-03	6.2E-06	5.6E-04	8.6E-07
Butane	3.0E-04	NA	NA	NA	NA
2-Butanone (Methyl Ethyl Ketone)	1.9E-03	1.2E-06	NA	1.9E-07	NA
C5-C8 Hydrocarbons[1]	NA	1.0E-03	NA	1.6E-04	NA
Cumene	NA	3.8E-05	NA	5.9E-06	NA
Cyclohexane	1.8E-04	8.1E-05	NA	1.3E-05	NA
Ethyl Benzene	2.8E-04	8.2E-06	NA	1.2E-06	NA
4-Ethyltoluene	NA	1.8E-04	NA	2.7E-05	NA
Heptane	4.3E-05	NA	NA	NA	NA
Hexane	8.4E-05	6.1E-03	NA	9.6E-04	NA
2-Hexanone	NA	1.7E-05	NA	2.7E-06	NA
2-Methylbutane	4.3E-04	NA	NA	NA	NA
Methyl cyclohexane	NA	2.9E-04	NA	4.6E-05	NA
Methyl cyclopentane	2.2E-04	NA	NA	NA	NA
2-Methylpentane	2.8E-04	NA	NA	NA	NA
3-Methylpentane	3.9E-05	NA	NA	NA	NA
Pentane	4.9E-04	NA	NA	NA	NA
2-Propanol	3.3E-04	5.8E-07	NA	9.1E-08	NA
Propylbenzene	NA	1.1E-04	NA	1.7E-05	NA
Tetrachloroethene	6.5E-04	9.0E-05	4.9E-08	1.4E-05	6.7E-09
Tetrahydrofuran	NA	3.1E-05	NA	4.8E-06	NA
Toluene	5.7E-04	6.7E-04	NA	1.0E-04	NA
Trichloroethene	NA	2.7E-05	3.3E-08	4.3E-06	4.6E-09
1,2,4-Trimethylbenzene	2.6E-04	5.5E-03	NA	8.5E-04	NA
1,3,5-Trimethylbenzene	NA	3.2E-03	NA	4.9E-04	NA
Total Xylenes	3.0E-04	1.2E-04	NA	1.7E-05	NA
Nitrogen Oxides	NA	3.5E-04	NA	1.3E-04	NA
Reactive Organic Gases	NA	9.5E-06	NA	3.5E-06	NA
Carbon Monoxide	NA	5.7E-06	NA	2.1E-06	NA
Sulfur Oxides	NA	2.6E-06	NA	9.7E-07	NA
Particulate Matter	NA	1.1E-03	1.7E-06	4.0E-04	5.7E-07
TOTAL	NA	2E-02	8E-06	4E-03	1E-06

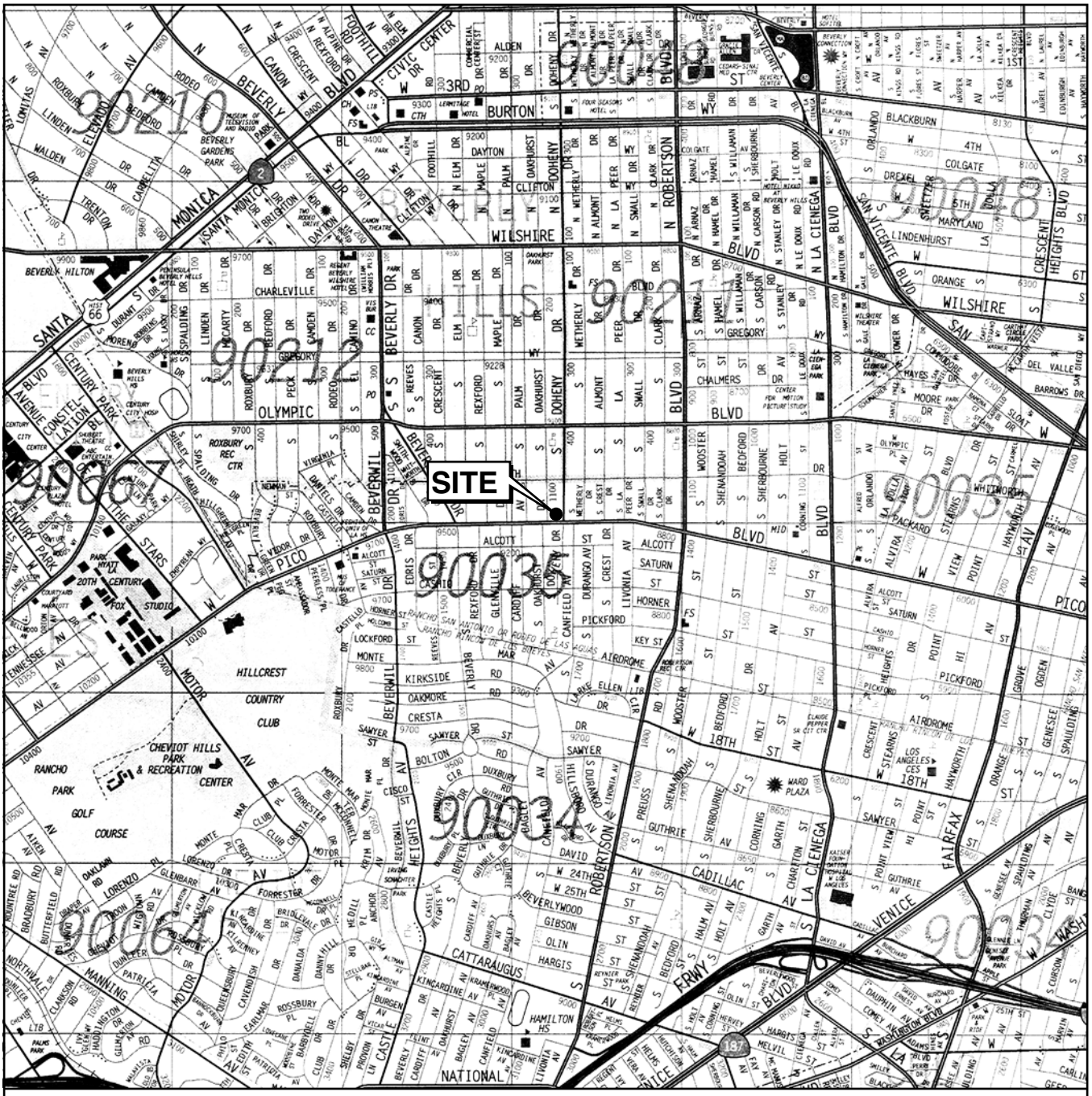
Notes:

[1] For chronic effects, includes emissions of heptane, total methylpentanes, pentane, methylbutane, methylcyclopentane.

Abbreviations:

NA - Not Applicable

FIGURES


SITE
90210
90212
90035
90034
90066
90067
90048
90036
BEVERLY HILLS
HOLLYWOOD
WEST HOLLYWOOD
CENTURY CITY
HILLCREST
COUNTRY CLUB
CHEVIOT HILLS PARK & RECREATION CENTER
RANCHO PARK GOLF COURSE
PARK HYATT
20TH CENTURY FOX STUDIO
BEVERLY HILTON
BEVERLY GARDENS PARK
ROXBURY REC CTR
HAMILTON HS
NATIONAL
WARD PLAZA
WILSHIRE
SANTA MONICA
OLYMPIC
PICO
BEVERLY BLVD
SAN VICENTE BLVD
LA CIENEGA BLVD
ROBERTSON BLVD
FAIRFAX
VENICE
MOTOR
CATTARAUGUS
BURTON
DOHENY
CLIFTON
ALDEN
3RD
BLACKBURN
COLGATE
DREXEL
LINDENHURST
ORANGE
GREGORY
CHALMERS
WHITWORTH
PACKARD
STEARNS
ALCOTT
SATURN
HORNER
PICKFORD
KEY ST
AIRDROME
LOCKFORD
MONTE
KIRKSIDE
OAKMORE
CRESTA
SAWYER
BOLTON
DUXBURY
CISCO
DAVID
GUTHRIE
W 24TH
W 25TH
BEVERLYWOOD
GIBSON
OLIN
HARGIS
MELVIL
CADILLAC
18TH
SHERBOURNE
WOOSTER
BEDFORD
HOLT
CORNING
GARTH
SHENANDOAH
PREUSS
CANFIELD
DURANGO AV
LIVONIA
CREST
EDRIS
REXFORD
GLENVILLE
CARDIFF
OAKHURST
DOHENY
ALMONT
LA PEER
WETHERLY
CLARK
SMALL
ROBERTSON
ELM
MAPLE
PALM
CANON
REEVES
CRESCENT
ALMONT
LA
SMALL
CLARK
CARSON
STANLEY
LE DOUX
HAMEL
ARNAZ
WILLIAMAN
SHERBOURNE
HOLT
DOHENY
CLARK
WETHERLY
PEER
ALMONT
LA
SMALL
CLARK
CARSON
STANLEY
LE DOUX
HAMEL
ARNAZ
WILLIAMAN
SHERBOURNE
HOLT
CORNING
GARTH
SHENANDOAH
PREUSS
CANFIELD
DURANGO AV
LIVONIA
CREST
EDRIS
REXFORD
GLENVILLE
CARDIFF
OAKHURST
DOHENY
ALMONT
LA PEER
WETHERLY
CLARK
SMALL
ROBERTSON
ELM
MAPLE
PALM
CANON
REEVES
CRESCENT

Alley

Oakhurst Drive

Support Building

Pipeline Trench

Pipeline Trench

Portable

Steps

North Well Cellar

Steps

Drilling Rig

Pipeline Trench

Pipeline Trench

Pipeline Trench

South Well Cellar

Steps

Mud Processing Building

Outer Wall
of Site

Pico Boulevard

N

0 20
Feet

LEGEND
- Tower
- Well cellar
- Supply building vent

SOURCE LOCATION MAP
BreitBurn Drill Site
Los Angeles, California

By:	Date:	Project No. 9195
Geomatrix		Figure 2

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Explanation

▲ Approximate ambient air sample locations

N

0 300 600 Feet

AMBIENT AIR SAMPLE LOCATIONS
BreitBurn Drill Site
Los Angeles, California

By:	Date:	Project No. 9195
Geomatrix		Figure 3

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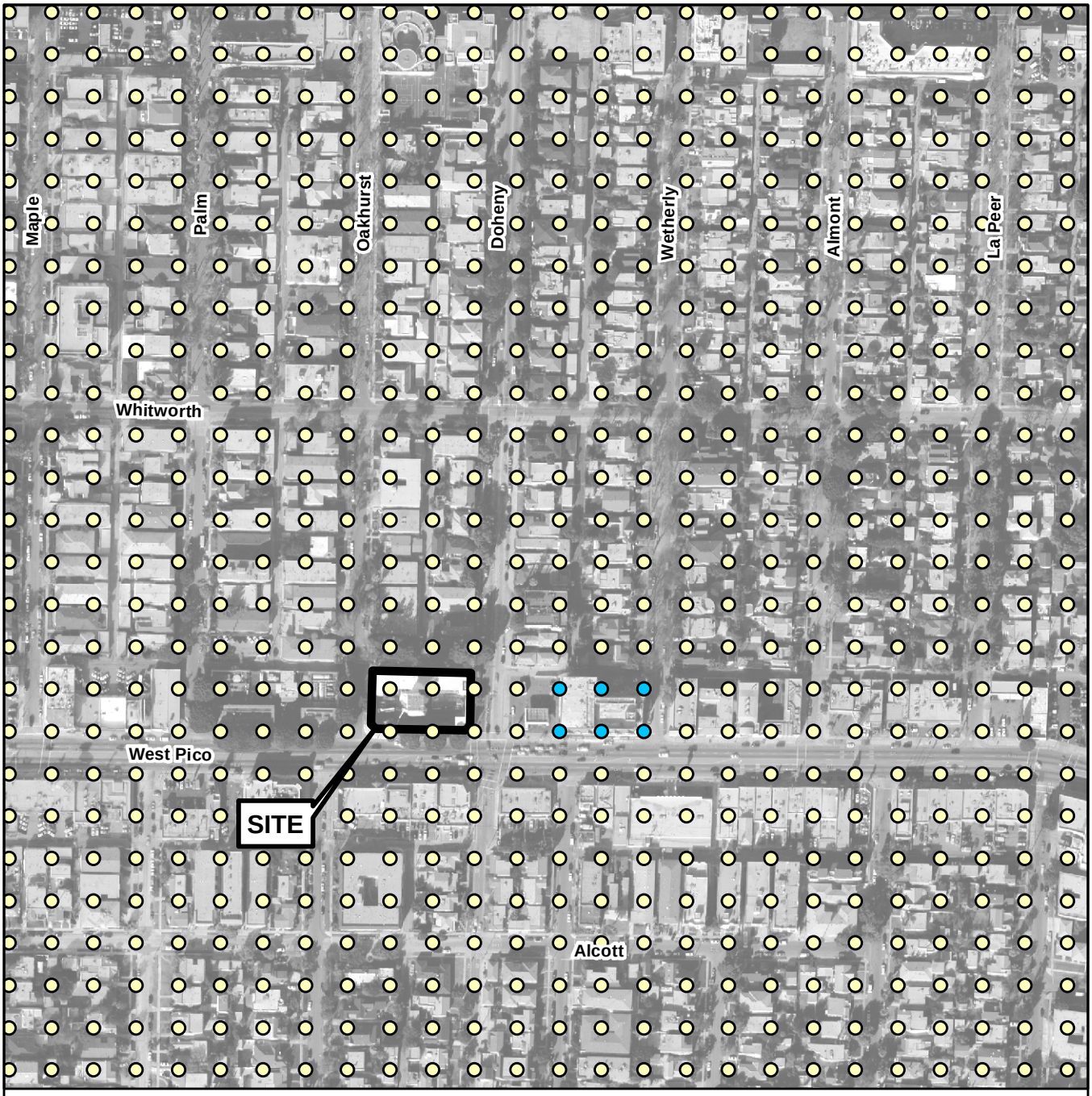

Explanation

- Sensitive Receptors
- Receptors

N

0 300 Feet

RECEPTOR LOCATIONS
BreitBurn Drill Site
Los Angeles, California

By:	Date:	Project No. 9195
Geomatrix		Figure 4

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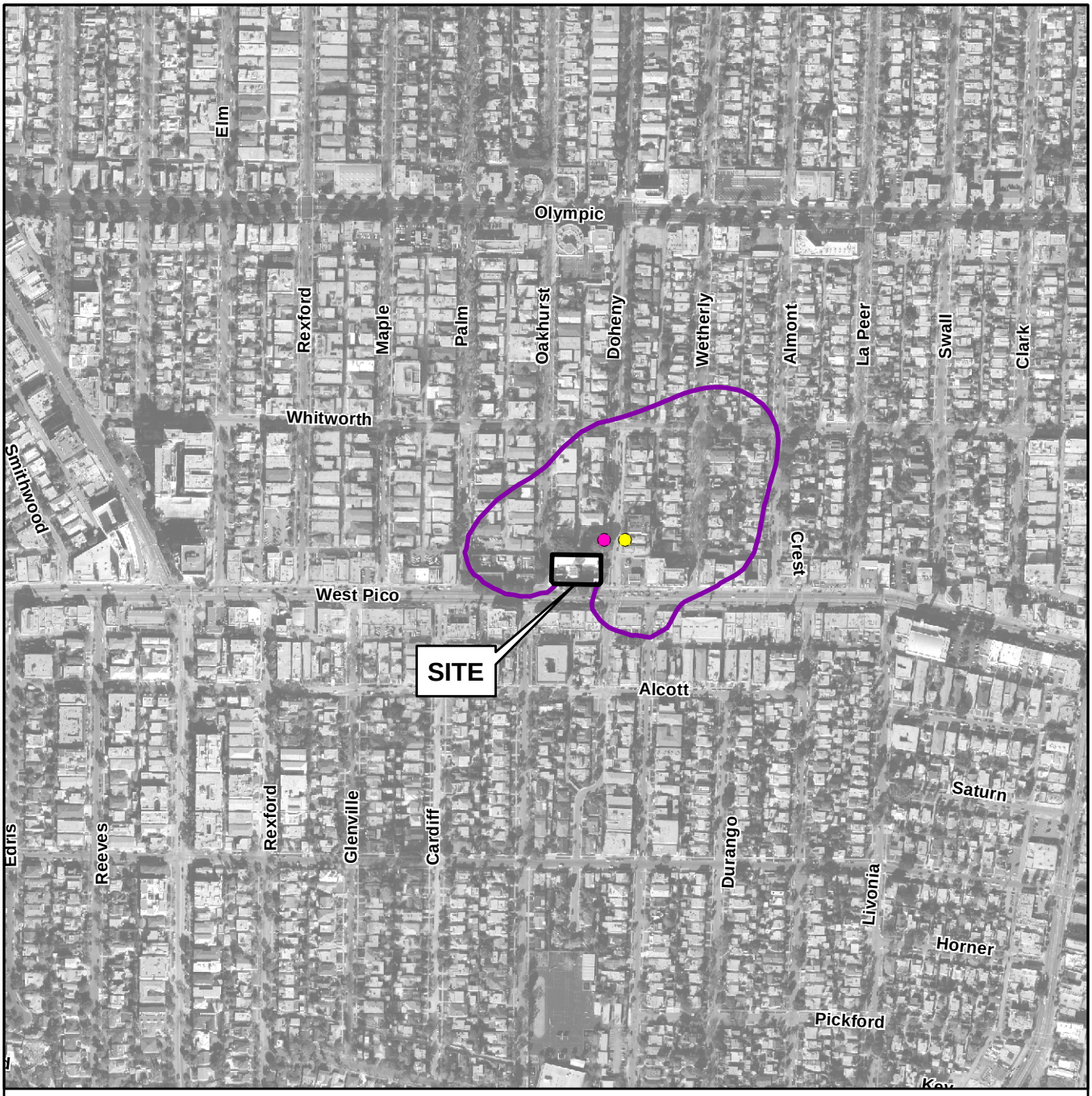

Explanation

One-in-a million cancer risk contour

Maximum Exposed Individual Resident

Maximum Exposed Individual Worker

N

0 300 600 Feet

CANCER RISK ISOPLETH
BreitBurn Drill Site
Los Angeles, California

By:	Date:	Project No. 9195
Geomatrix		Figure 5

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APPENDIX A

Revised Calculation of Emission Rates

APPENDIX A
REVISED CALCULATION OF EMISSION RATES
BreitBurn Drill Site
Los Angeles, California

Sample ID	Activity Mode/ Operation	Sample Location	Sample Date	Average Flow Rate (m^3/s)	1,2,4-Trimethylbenzene			1,3,5-Trimethylbenzene		2-Butanone (Methyl Ethyl Ketone)			2-Hexanone		2-Propanol			4-Ethyltoluene		Acetone			Benzene			Carbon Disulfide		Cumene		Cyclohexane		
					Conc µg/m^3	Conc[1] µg/m^3	Emis Rate g/s	Conc µg/m^3	Emis Rate g/s	Conc µg/m^3	Conc[1] µg/m^3	Emis Rate g/s	Conc µg/m^3	Emis Rate g/s	Conc µg/m^3	Conc[1] µg/m^3	Emis Rate g/s	Conc µg/m^3	Emis Rate g/s	Conc µg/m^3	Conc[1] µg/m^3	Emis Rate g/s	Conc µg/m^3	Conc[1] µg/m^3	Emis Rate g/s	Conc µg/m^3	Emis Rate g/s	Conc µg/m^3	Emis Rate g/s	Conc µg/m^3	Conc[1] µg/m^3	Emis Rate g/s
BB-2	Drilling	mudhouse duct	07/22/04	3.135	38.0	36.5	1.14E-04	120.0	3.76E-04	45.0	41.9	1.31E-04	15.0	4.70E-05	-9.1	1.0	3.11E-06	140.0	4.39E-04	220.0	194.1	6.08E-04	56.0	54.6	1.71E-04	6.6	2.08E-05	30.0	9.41E-05	280.0	277.7	8.70E-04
BB-4	Drilling	mudhouse duct	07/23/04	3.072	66.0	64.5	1.98E-04	61.0	1.87E-04	24.0	20.9	6.42E-05	17.0	5.22E-05	-9.3	1.1	3.35E-06	110.0	3.38E-04	110.0	84.1	2.58E-04	110.0	108.6	3.34E-04	-3.0	4.57E-06	21.0	6.45E-05	500.0	497.7	1.53E-03
BB-6	Drilling	mudhouse duct	07/24/04	3.202	60.0	58.5	1.87E-04	58.0	1.86E-04	27.0	23.9	7.64E-05	-14.0	2.24E-05	16.0	12.4	3.98E-05	100.0	3.20E-04	150.0	124.1	3.97E-04	60.0	58.6	1.88E-04	11.0	3.52E-05	19.0	6.08E-05	320.0	317.7	1.02E-03
BB-MH	Drilling	mudhouse duct	01/07/05	2.685	110.0	108.5	2.91E-04	110.0	2.95E-04	23.0	19.9	5.34E-05	-39.0	5.24E-05	-23.0	7.9	2.13E-05	240.0	6.44E-04	370.0	344.1	9.24E-04	500.0	498.6	1.34E-03	-7.4	9.93E-06	50.0	1.34E-04	820.0	817.7	2.20E-03
Average Mudhouse Emission Rate:							**1.98E-04**		**2.61E-04**			**8.13E-05**		**4.35E-05**			**1.69E-05**		**4.35E-04**			**5.47E-04**			**5.08E-04**		**1.76E-05**		**8.84E-05**			**1.40E-03**
BB-7	Drilling	north cellar	07/24/04	7.165	14.0	12.5	8.95E-05	-5.3	1.90E-05	6.7	3.6	2.57E-05	-18.0	6.45E-05	-10.0	1.4	1.03E-05	12.0	8.59E-05	28.0	2.1	1.50E-05	13.0	11.6	8.29E-05	5.9	4.23E-05	-5.3	1.90E-05	29.0	26.7	1.91E-04
BB-CN	Drilling	north cellar	01/07/05	7.165	-23.0	10.0	7.17E-05	-23.0	8.24E-05	-14.0	3.9	2.79E-05	-77.0	2.76E-04	-46.0	19.4	1.39E-04	-23.0	8.24E-05	-44.0	0.0	0.00E+00	240.0	238.6	1.71E-03	-14.0	5.02E-05	-23.0	8.24E-05	550.0	547.7	3.92E-03
CEL-052404	Idle	north cellar	05/25/04	7.165	-4.6	0.8	5.75E-06	-4.6	1.65E-05	-2.8	0.0	0.00E+00	-15.4	5.52E-05	-9.2	1.1	7.62E-06	-4.6	1.65E-05	-8.9	0.0	0.00E+00	4.2	2.8	2.01E-05	-2.9	1.04E-05	-4.6	1.65E-05	9.8	7.5	5.37E-05
BB-CS	Drilling	south cellar	01/07/05	7.165	18.0	16.5	1.18E-04	6.3	4.51E-05	-2.7	0.0	0.00E+00	-15.0	5.37E-05	-9.0	0.9	6.74E-06	17.0	1.22E-04	-8.7	0.0	0.00E+00	12.0	10.6	7.59E-05	-2.8	1.00E-05	-4.5	1.61E-05	21.0	18.7	1.34E-04
Average Cellar Emission Rate:							**7.13E-05**		**4.07E-05**			**1.34E-05**		**1.12E-04**			**4.10E-05**		**7.66E-05**			**3.74E-06**			**4.72E-04**		**2.82E-05**		**3.35E-05**			**1.08E-03**
BB-1[3]	Drilling	tower	07/22/04	29.99	5.6	4.1	1.23E-04	-4.4	6.59E-05	-2.6	0.0	0.00E+00	-14.0	2.10E-04	-8.7	0.8	2.44E-05	8.3	2.49E-04	14.0	0.0	0.00E+00	4.5	3.1	9.40E-05	-2.8	4.18E-05	-4.4	6.59E-05	11.0	8.7	2.61E-04
BB-3	Drilling	tower	07/23/04	28.81	8.0	6.5	1.87E-04	-4.6	6.62E-05	-2.7	0.0	0.00E+00	-15.0	2.16E-04	-9.1	1.0	2.86E-05	10.0	2.88E-04	12.0	0.0	0.00E+00	11.0	9.6	2.76E-04	4.3	1.24E-04	-4.6	6.62E-05	25.0	22.7	6.54E-04
BB-5	Drilling	tower	07/24/04	29.95	7.4	5.9	1.77E-04	-4.4	6.58E-05	-2.6	0.0	0.00E+00	-14.0	2.10E-04	-8.7	0.8	2.44E-05	8.6	2.58E-04	12.0	0.0	0.00E+00	4.3	2.9	8.65E-05	-2.8	4.17E-05	-4.4	6.58E-05	13.0	10.7	3.20E-04
BB-T	Drilling	tower	01/07/05	32.25	13.0	11.5	3.71E-04	10.0	3.23E-04	-2.7	0.0	0.00E+00	-15.0	2.42E-04	-9.0	0.9	3.04E-05	22.0	7.10E-04	24.0	0.0	0.00E+00	34.0	32.6	1.05E-03	-2.8	4.52E-05	-4.5	7.26E-05	72.0	69.7	2.25E-03
Average Tower Emission Rate During Drilling:							**2.45E-04**		**1.52E-04**			**0.00E+00**		**2.19E-04**			**2.78E-05**		**3.76E-04**			**0.00E+00**			**3.77E-04**		**6.31E-05**		**6.76E-05**			**1.07E-03**
BB-T-1	Maintenance	tower	11/13/04	22.73	27.0	25.5	**5.80E-04**	9.4	**2.14E-04**	5.8	2.7	**6.12E-05**	-19.0	**2.16E-04**	12.0	8.4	**1.92E-04**	27.0	**6.14E-04**	22.0	0.0	**0.00E+00**	47.0	45.6	**1.04E-03**	-3.6	**4.09E-05**	-5.6	**6.36E-05**	190.0	187.7	**4.27E-03**
Average Ambient Air Concentration[2]:					**1.5**			ND[4]		**3.1**			ND		**3.6**			ND		**25.9**			**1.4**			ND		ND		2.3		

Notes:
[1] Measured source concentration minus average ambient concentration. If the measured concentration was less than the detection limit, one-half the detection limit was used for the calculation. If ambient was greater than measured, then "0" was recorded.
[2] Average of ambient air data for chemicals detected in facility emissions and in ambient air samples; calculated in Table 3.
[3] A duplicate of BB-1 was removed and not used in calculation of emission rates.
[4] ND = not detected in ambient air.

APPENDIX A
REVISED CALCULATION OF EMISSION RATES
BreitBurn Drill Site
Los Angeles, California

Sample ID	Activity Mode/ Operation	Sample Location	Sample Date	Average Flow Rate (m^3/s)	Ethyl Benzene			Heptane			Hexane			Propylbenzene		Tetrachloroethene			Tetrahydrofuran		Toluene			Trichloroethene		Xylenes				
																										m,p-Xylene	o-Xylene	Total Xylenes		
					Conc µg/m^3	Conc[1] µg/m^3	Emis Rate g/s	Conc µg/m^3	Conc[1] µg/m^3	Emis Rate g/s	Conc µg/m^3	Conc[1] µg/m^3	Emis Rate g/s	Conc µg/m^3	Emis Rate g/s	Conc µg/m^3	Conc[1] µg/m^3	Emis Rate g/s	Conc µg/m^3	Emis Rate g/s	Conc µg/m^3	Conc[1] µg/m^3	Emis Rate g/s	Conc µg/m^3	Emis Rate g/s	Conc µg/m^3	Conc µg/m^3	Conc µg/m^3	Conc[1] µg/m^3	Emis Rate g/s
BB-2	Drilling	mudhouse duct	07/22/04	3.135	84.0	82.8	2.60E-04	590.0	587.3	1.84E-03	370.0	366.1	1.15E-03	42.0	1.32E-04	200.0	196.2	6.15E-04	-2.7	4.23E-06	140.0	134.9	4.23E-04	-5.0	7.88E-06	110.0	98.0	208.0	204.6	6.41E-04
BB-4	Drilling	mudhouse duct	07/23/04	3.072	200.0	198.8	6.11E-04	400.0	397.3	1.22E-03	720.0	716.1	2.20E-03	38.0	1.17E-04	14.0	10.2	3.15E-05	-2.8	4.33E-06	260.0	254.9	7.83E-04	-5.1	7.89E-06	480.0	210.0	690.0	686.6	2.11E-03
BB-6	Drilling	mudhouse duct	07/24/04	3.202	160.0	158.8	5.08E-04	330.0	327.3	1.05E-03	430.0	426.1	1.36E-03	33.0	1.06E-04	20.0	16.2	5.20E-05	120.0	3.84E-04	190.0	184.9	5.92E-04	26.0	8.33E-05	390.0	160.0	550.0	546.6	1.75E-03
BB-MH	Drilling	mudhouse duct	01/07/05	2.685	260.0	258.8	6.95E-04	820.0	817.3	2.19E-03	1100.0	1096.1	2.94E-03	85.0	2.28E-04	-16.0	4.2	1.14E-05	-7.0	9.40E-06	1100.0	1094.9	2.94E-03	-13.0	1.75E-05	570.0	410.0	980.0	976.6	2.62E-03
Average Mudhouse Emission Rate:							**5.18E-04**			**1.58E-03**			**1.91E-03**		**1.46E-04**			**1.78E-04**		**1.01E-04**			**1.18E-03**		**2.91E-05**				**1.78E-03**
BB-7	Drilling	north cellar	07/24/04	7.165	5.1	3.9	2.78E-05	34.0	31.3	2.24E-04	65.0	61.1	4.38E-04	-5.3	1.90E-05	21.0	17.2	1.24E-04	-3.2	1.15E-05	21.0	15.9	1.14E-04	-5.8	2.08E-05	16.0	7.2	23.2	19.8	1.42E-04
BB-CN	Drilling	north cellar	01/07/05	7.165	-20.0	8.8	6.29E-05	440.0	437.3	3.13E-03	1400.0	1396.1	1.00E-02	-23.0	8.24E-05	-32.0	12.2	8.77E-05	-14.0	5.02E-05	220.0	214.9	1.54E-03	-25.0	8.96E-05	44.0	-20.0	44.0	40.6	2.91E-04
CEL-052404	Idle	north cellar	05/25/04	7.165	-4.1	0.8	5.83E-06	10.8	8.1	5.80E-05	23.6	19.7	1.41E-04	-4.6	1.65E-05	-6.3	0.0	0.00E+00	-2.8	9.88E-06	7.3	2.1	1.53E-05	-5.0	1.80E-05	4.4	-4.1	4.4	1.0	7.17E-06
BB-CS	Drilling	south cellar	01/07/05	7.165	6.6	5.4	3.86E-05	18.0	15.3	1.09E-04	42.0	38.1	2.73E-04	-4.5	1.61E-05	-6.2	0.0	0.00E+00	-2.7	9.67E-06	17.0	11.9	8.50E-05	-4.9	1.76E-05	27.0	10.0	37.0	33.6	2.41E-04
Average Cellar Emission Rate:							**3.38E-05**			**8.81E-04**			**2.71E-03**		**3.35E-05**			**5.28E-05**		**2.03E-05**			**4.38E-04**		**3.65E-05**				**1.70E-04**
BB-1 [3]	Drilling	tower	07/22/04	29.99	5.7	4.5	1.36E-04	20.0	17.3	5.18E-04	18.0	14.1	4.22E-04	-4.4	6.59E-05	200.0	196.2	5.89E-03	**2.6**	7.91E-05	13.0	7.9	2.36E-04	-4.8	7.21E-05	14.0	7.1	21.1	17.6	5.29E-04
BB-3	Drilling	tower	07/23/04	28.81	5.7	4.5	1.30E-04	25.0	22.3	6.41E-04	56.0	52.1	1.50E-03	-4.6	6.62E-05	17.0	13.2	3.82E-04	-2.7	3.89E-05	17.0	11.9	3.42E-04	-5.0	7.24E-05	19.0	7.9	26.9	23.5	6.78E-04
BB-5	Drilling	tower	07/24/04	29.95	9.4	8.2	2.45E-04	16.0	13.3	3.97E-04	19.0	15.1	4.51E-04	-4.4	6.58E-05	18.0	14.2	4.27E-04	-2.6	3.95E-05	12.0	6.9	2.06E-04	-4.8	7.20E-05	32.0	11.0	43.0	39.6	1.19E-03
BB-T	Drilling	tower	01/07/05	32.25	22.0	20.8	6.70E-04	83.0	80.3	2.59E-03	100.0	96.1	3.10E-03	6.9	2.23E-04	-6.2	0.0	0.00E+00	-2.7	4.35E-05	78.0	72.9	2.35E-03	-4.9	7.90E-05	49.0	30.0	79.0	75.6	2.44E-03
Average Tower Emission Rate During Drilling:							**3.49E-04**			**1.21E-03**			**1.68E-03**		**1.05E-04**			**2.69E-04**		**5.03E-05**			**9.66E-04**		**7.39E-05**				**1.43E-03**
BB-T-1	Maintenance	tower	11/13/04	22.73	27.0	25.8	**5.86E-04**	320.0	317.3	**7.21E-03**	380.0	376.1	**8.55E-03**	8.4	**1.91E-04**	17.0	13.2	**3.01E-04**	-3.4	**3.86E-05**	120.0	114.9	**2.61E-03**	-6.1	**6.93E-05**	92.0	32.0	124.0	120.6	**2.74E-03**
Average Ambient Air Concentration[2]:					**1.2**			**2.7**			**3.9**			ND		**3.8**			ND		**5.1**			ND				**3.4**		

Notes:
[1] Measured source concentration minus average ambient concentration. If the measured concentration was less than the detection limit, one-half the detection limit was used for the calculation. If ambient was greater than measured, then "0" was recorded.
[2] Average of ambient air data for chemicals detected in facility emissions and in ambient air samples; calculated in Table 9.
[3] A duplicate of BB-1 was removed and not used in calculation of emission rates.
[4] ND = not detected in ambient air.

APPENDIX A
REVISED CALCULATION OF EMISSION RATES
BreitBurn Drill Site
Los Angeles, California

Sample ID	Activity Mode/ Operation	Sample Location	Sample Date	Average Flow Rate (m^3/s)	Tentatively Identified Compounds (TICs)[1]																	
					Butane			2-Methyl butane			Methyl cyclohexane		Methyl cyclopentane			Pentane			2-Methyl-pentane	3-Methyl-pentane	Total Methyl pentanes		
					Conc µg/m^3	Conc[1] µg/m^3	Emis Rate g/s	Conc µg/m^3	Conc[1] µg/m^3	Emis Rate g/s	Conc µg/m^3	Emis Rate g/s	Conc µg/m^3	Conc[1] µg/m^3	Emis Rate g/s	Conc µg/m^3	Conc[1] µg/m^3	Emis Rate g/s	Conc µg/m^3	Conc µg/m^3	Conc µg/m^3	Conc[1] µg/m^3	Emis Rate g/s
BB-2	Drilling	mudhouse duct	07/22/04	3.135	1600.0	1587.7	4.98E-03	1400.0	1377.3	4.32E-03	1300.0	4.08E-03	1100.0	1093.7	3.43E-03	1000.0	977.9	3.07E-03	-9.0	-9.0	-9.0	0.0	0.00E+00
BB-4	Drilling	mudhouse duct	07/23/04	3.072	8200.0	8187.7	2.52E-02	6600.0	6577.3	2.02E-02	1300.0	3.99E-03	2600.0	2593.7	7.97E-03	3900.0	3877.9	1.19E-02	2500.0	1900.0	4400.0	4383.1	1.35E-02
BB-6	Drilling	mudhouse duct	07/24/04	3.202	1800.0	1787.7	5.72E-03	2000.0	1977.3	6.33E-03	-10.0	1.60E-05	1500.0	1493.7	4.78E-03	1500.0	1477.9	4.73E-03	1400.0	-9.0	1400.0	1383.1	4.43E-03
BB-MH	Drilling	mudhouse duct	01/07/05	2.685	-6.0	0.0	0.00E+00	3000.0	2977.3	7.99E-03	2600.0	6.98E-03	3100.0	3093.7	8.31E-03	3300.0	3277.9	8.80E-03	1900.0	1200.0	3100.0	3083.1	8.28E-03
Average Mudhouse Emission Rate:							**8.96E-03**			**9.71E-03**		**3.77E-03**			**6.12E-03**			**7.13E-03**				**6.54E-03**
BB-7	Drilling	north cellar	07/24/04	7.165	310.0	297.7	2.13E-03	220.0	197.3	1.41E-03	-10.0	3.58E-05	130.0	123.7	8.86E-04	220.0	197.9	1.42E-03	130.0	72.0	202.0	185.1	1.33E-03
BB-CN	Drilling	north cellar	01/07/05	7.165	-6.0	0.0	0.00E+00	6900.0	6877.3	4.93E-02	980.0	7.02E-03	3200.0	3193.7	2.29E-02	6600.0	6577.9	4.71E-02	3000.0	1900.0	4900.0	4883.1	3.50E-02
CEL-052404	Idle	north cellar	05/25/04	7.165	240.0	227.7	1.63E-03	150.0	127.3	9.12E-04	40.0	2.87E-04	-9.0	0.0	0.00E+00	150.0	127.9	9.17E-04	79.0	-9.0	79.0	62.1	4.45E-04
BB-CS	Drilling	south cellar	01/07/05	7.165	-6.0	0.0	0.00E+00	230.0	207.3	1.49E-03	49.0	3.51E-04	100.0	93.7	6.71E-04	210.0	187.9	1.35E-03	100.0	57.0	157.0	140.1	1.00E-03
Average Cellar Emission Rate:							**9.41E-04**			**1.33E-02**		**1.92E-03**			**6.11E-03**			**1.27E-02**				**9.44E-03**
BB-1[3]	Drilling	tower	07/22/04	29.99	70.0	57.7	1.73E-03	57.0	34.3	1.03E-03	45.0	1.35E-03	45.0	38.7	1.16E-03	48.0	25.9	7.78E-04	36.0	-9.0	36.0	19.1	5.73E-04
BB-3	Drilling	tower	07/23/04	28.81	310.0	297.7	8.58E-03	230.0	207.3	5.97E-03	61.0	1.76E-03	100.0	93.7	2.70E-03	210.0	187.9	5.41E-03	110.0	64.0	174.0	157.1	4.53E-03
BB-5	Drilling	tower	07/24/04	29.95	-6.0	0.0	0.00E+00	72.0	49.3	1.48E-03	35.0	1.05E-03	52.0	45.7	1.37E-03	60.0	37.9	1.14E-03	43.0	33.0	76.0	59.1	1.77E-03
BB-T	Drilling	tower	01/07/05	32.25	-6.0	0.0	0.00E+00	290.0	267.3	8.62E-03	250.0	8.06E-03	300.0	293.7	9.47E-03	300.0	277.9	8.96E-03	190.0	120.0	310.0	293.1	9.45E-03
Average Tower Emission Rate During Drilling:							**2.86E-03**			**5.36E-03**		**3.05E-03**			**4.51E-03**			**5.17E-03**				**5.25E-03**
BB-T-1	Maintenance	tower	11/13/04	22.73	-6.0	0.0	**0.00E+00**	1300.0	1277.3	**2.90E-02**	610.0	**1.39E-02**	-9.0	0.0	**0.00E+00**	1300.0	1277.9	**2.90E-02**	790.0	470.0	1260.0	1243.1	**2.83E-02**
Average Ambient Air Concentration[2]:					**12.3**			**22.7**			ND		**6.3**			**22.1**					**16.9**		

Notes:
[1] Measured source concentration minus average ambient concentration. If the measured concentration was less than the detection limit, one-half the detection limit was used for the calculation. If ambient was greater than measured, then "0" was recorded.
[2] Average of ambient air data for chemicals detected in facility emissions and in ambient air samples; calculated in Table 9.
[3] A duplicate of BB-1 was removed and not used in calculation of emission rates.
[4] ND = not detected in ambient air.

APPENDIX B

ISCST Modeling Output Files

Appendix B-1
Tower and Diesel Engine Air Dispersion Modeling

```
             ISCST3X  PC (32 BIT) VERSION  4.0.1
            (C) COPYRIGHT 1991-2002, Trinity Consultants

Run Began on  7/07/2005 at 12:40:16

** BREEZE ISC GIS Pro v4.0.9 - B:\Air Modeling\HHRA\9195_diesel_tower.dat
** Trinity Consultants


CO STARTING
CO TITLEONE  BreitBurn Drill Site
CO MODELOPT  CONC  URBAN  HE>ZI
CO AVERTIME  ANNUAL
CO POLLUTID  OTHER
CO TERRHGTS  ELEV
CO RUNORNOT  RUN
CO FINISHED

SO STARTING
SO ELEVUNIT  METERS
SO LOCATION  SRC1  POINT  371763.4  3768986.4  50
** SRCDESCR  Tower
SO LOCATION  SRC2  VOLUME  371770.7  3768998.3  50
** SRCDESCR  Supply Bldg Vent
SO SRCPARAM  SRC1  1.000000E+00  39  293  0.596831  8
SO SRCPARAM  SRC2  1.000000E+00  9.14  0.71  1.13
SO BUILDHGT  SRC1  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC1  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC1  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC1  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC1  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC1  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDWID  SRC1  11.53  12.8  13.67  14.13  14.16  13.76
SO BUILDWID  SRC1  12.94  11.73  10.16  11.45  12.73  13.64
SO BUILDWID  SRC1  14.12  14.18  13.81  13.02  11.83  10.28
SO BUILDWID  SRC1  11.53  12.8  13.67  14.13  14.16  13.76
SO BUILDWID  SRC1  12.94  11.73  10.16  11.45  12.73  13.64
SO BUILDWID  SRC1  14.12  14.18  13.81  13.02  11.83  10.28
SO SRCGROUP  ALL
SO SRCGROUP  1  SRC1
SO SRCGROUP  2  SRC2
SO FINISHED
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RE ELEVUNIT  METERS
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RE DISCCART  371440.9  3768569.9  55.07
RE DISCCART  371465.9  3768569.9  54.61
RE DISCCART  371490.9  3768569.9  54.2
RE DISCCART  371515.9  3768569.9  53.96
RE DISCCART  371540.9  3768569.9  53.42
RE DISCCART  371565.9  3768569.9  53.2
RE DISCCART  371590.9  3768569.9  52.54
RE DISCCART  371615.9  3768569.9  52.35
RE DISCCART  371640.9  3768569.9  51.74
RE DISCCART  371665.9  3768569.9  51.58
RE DISCCART  371690.9  3768569.9  51.03
RE DISCCART  371715.9  3768569.9  50.83
RE DISCCART  371740.9  3768569.9  50.42
RE DISCCART  371765.9  3768569.9  50.11
RE DISCCART  371790.9  3768569.9  49.72
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RE DISCCART  372090.9  3768569.9  44.22
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RE DISCCART  372140.9  3768569.9  43.23
RE DISCCART  372165.9  3768569.9  42.9
RE DISCCART  372190.9  3768569.9  42.24
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RE DISCCART  372340.9  3768569.9  39.72
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RE DISCCART  371540.9  3768594.9  53.45
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RE DISCCART  371615.9  3768594.9  52.4
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RE DISCCART  371665.9  3768594.9  51.75
RE DISCCART  371690.9  3768594.9  51.1
RE DISCCART  371715.9  3768594.9  50.95
RE DISCCART  371740.9  3768594.9  50.53
RE DISCCART  371765.9  3768594.9  50.3
RE DISCCART  371790.9  3768594.9  49.97
RE DISCCART  371815.9  3768594.9  49.75
RE DISCCART  371840.9  3768594.9  49.35
RE DISCCART  371865.9  3768594.9  49.1
RE DISCCART  371890.9  3768594.9  48.63
RE DISCCART  371915.9  3768594.9  48.33
RE DISCCART  371940.9  3768594.9  47.57
RE DISCCART  371965.9  3768594.9  47.08
RE DISCCART  371990.9  3768594.9  46.24
RE DISCCART  372015.9  3768594.9  45.8
RE DISCCART  372040.9  3768594.9  45.13
RE DISCCART  372065.9  3768594.9  44.9
RE DISCCART  372090.9  3768594.9  44.38
RE DISCCART  372115.9  3768594.9  44.05
RE DISCCART  372140.9  3768594.9  43.45
RE DISCCART  372165.9  3768594.9  43.1
RE DISCCART  372190.9  3768594.9  42.53
RE DISCCART  372215.9  3768594.9  42.15
RE DISCCART  372240.9  3768594.9  41.6
RE DISCCART  372265.9  3768594.9  41.3
RE DISCCART  372290.9  3768594.9  40.67
RE DISCCART  372315.9  3768594.9  40.35
RE DISCCART  372340.9  3768594.9  39.85
RE DISCCART  372365.9  3768594.9  39.55
RE DISCCART  371340.9  3768619.9  59.56
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RE DISCCART  371440.9  3768619.9  54.92
RE DISCCART  371465.9  3768619.9  54.61
RE DISCCART  371490.9  3768619.9  54.03
RE DISCCART  371515.9  3768619.9  53.81
RE DISCCART  371540.9  3768619.9  53.42
RE DISCCART  371565.9  3768619.9  53.11
RE DISCCART  371590.9  3768619.9  52.73
RE DISCCART  371615.9  3768619.9  52.5
RE DISCCART  371640.9  3768619.9  51.95
RE DISCCART  371665.9  3768619.9  51.61
RE DISCCART  371690.9  3768619.9  51.2
RE DISCCART  371715.9  3768619.9  50.97
RE DISCCART  371740.9  3768619.9  50.53
RE DISCCART  371765.9  3768619.9  50.4
RE DISCCART  371790.9  3768619.9  50.02
RE DISCCART  371815.9  3768619.9  49.81
RE DISCCART  371840.9  3768619.9  49.42
RE DISCCART  371865.9  3768619.9  49.11
RE DISCCART  371890.9  3768619.9  48.73
RE DISCCART  371915.9  3768619.9  48.37
RE DISCCART  371940.9  3768619.9  47.53
RE DISCCART  371965.9  3768619.9  47.11
RE DISCCART  371990.9  3768619.9  46.25
RE DISCCART  372015.9  3768619.9  45.85
RE DISCCART  372040.9  3768619.9  45.25
RE DISCCART  372065.9  3768619.9  45.11
RE DISCCART  372090.9  3768619.9  44.53
RE DISCCART  372115.9  3768619.9  44.11
RE DISCCART  372140.9  3768619.9  43.53
RE DISCCART  372165.9  3768619.9  43.23
RE DISCCART  372190.9  3768619.9  42.53
RE DISCCART  372215.9  3768619.9  42.31
RE DISCCART  372240.9  3768619.9  41.72
RE DISCCART  372265.9  3768619.9  41.4
RE DISCCART  372290.9  3768619.9  40.74
RE DISCCART  372315.9  3768619.9  40.47
RE DISCCART  372340.9  3768619.9  39.92
RE DISCCART  372365.9  3768619.9  39.61
RE DISCCART  371340.9  3768644.9  59.19
RE DISCCART  371365.9  3768644.9  58.34
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RE DISCCART  371390.9  3768644.9  56.75
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RE DISCCART  371440.9  3768644.9  54.8
RE DISCCART  371465.9  3768644.9  54.5
RE DISCCART  371490.9  3768644.9  54.1
RE DISCCART  371515.9  3768644.9  53.85
RE DISCCART  371540.9  3768644.9  53.45
RE DISCCART  371565.9  3768644.9  53.2
RE DISCCART  371590.9  3768644.9  52.85
RE DISCCART  371615.9  3768644.9  52.57
RE DISCCART  371640.9  3768644.9  51.95
RE DISCCART  371665.9  3768644.9  51.65
RE DISCCART  371690.9  3768644.9  51.3
RE DISCCART  371715.9  3768644.9  51.1
RE DISCCART  371740.9  3768644.9  50.7
RE DISCCART  371765.9  3768644.9  50.48
RE DISCCART  371790.9  3768644.9  50.1
RE DISCCART  371815.9  3768644.9  49.88
RE DISCCART  371840.9  3768644.9  49.47
RE DISCCART  371865.9  3768644.9  49.2
RE DISCCART  371890.9  3768644.9  48.8
RE DISCCART  371915.9  3768644.9  48.45
RE DISCCART  371940.9  3768644.9  47.85
RE DISCCART  371965.9  3768644.9  47.4
RE DISCCART  371990.9  3768644.9  46.6
RE DISCCART  372015.9  3768644.9  46.21
RE DISCCART  372040.9  3768644.9  45.8
RE DISCCART  372065.9  3768644.9  45.35
RE DISCCART  372090.9  3768644.9  44.67
RE DISCCART  372115.9  3768644.9  44.33
RE DISCCART  372140.9  3768644.9  43.8
RE DISCCART  372165.9  3768644.9  43.35
RE DISCCART  372190.9  3768644.9  42.8
RE DISCCART  372215.9  3768644.9  42.45
RE DISCCART  372240.9  3768644.9  41.88
RE DISCCART  372265.9  3768644.9  41.6
RE DISCCART  372290.9  3768644.9  41
RE DISCCART  372315.9  3768644.9  40.6
RE DISCCART  372340.9  3768644.9  40.1
RE DISCCART  372365.9  3768644.9  39.8
RE DISCCART  371340.9  3768669.9  58.73
RE DISCCART  371365.9  3768669.9  58.06
RE DISCCART  371390.9  3768669.9  56.56
RE DISCCART  371415.9  3768669.9  55.87
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RE DISCCART  371465.9  3768669.9  54.61
RE DISCCART  371490.9  3768669.9  54.04
RE DISCCART  371515.9  3768669.9  53.96
RE DISCCART  371540.9  3768669.9  53.5
RE DISCCART  371565.9  3768669.9  53.28
RE DISCCART  371590.9  3768669.9  52.9
RE DISCCART  371615.9  3768669.9  52.46
RE DISCCART  371640.9  3768669.9  52.02
RE DISCCART  371665.9  3768669.9  51.78
RE DISCCART  371690.9  3768669.9  51.42
RE DISCCART  371715.9  3768669.9  51.17
RE DISCCART  371740.9  3768669.9  50.72
RE DISCCART  371765.9  3768669.9  50.53
RE DISCCART  371790.9  3768669.9  50.04
RE DISCCART  371815.9  3768669.9  49.96
RE DISCCART  371840.9  3768669.9  49.5
RE DISCCART  371865.9  3768669.9  49.31
RE DISCCART  371890.9  3768669.9  48.75
RE DISCCART  371915.9  3768669.9  48.61
RE DISCCART  371940.9  3768669.9  47.94
RE DISCCART  371965.9  3768669.9  47.58
RE DISCCART  371990.9  3768669.9  46.74
RE DISCCART  372015.9  3768669.9  46.4
RE DISCCART  372040.9  3768669.9  45.74
RE DISCCART  372065.9  3768669.9  45.4
RE DISCCART  372090.9  3768669.9  44.75
RE DISCCART  372115.9  3768669.9  44.4
RE DISCCART  372140.9  3768669.9  43.75
RE DISCCART  372165.9  3768669.9  43.46
RE DISCCART  372190.9  3768669.9  42.76
RE DISCCART  372215.9  3768669.9  42.61
RE DISCCART  372240.9  3768669.9  42.03
RE DISCCART  372265.9  3768669.9  41.73
RE DISCCART  372290.9  3768669.9  41.03
RE DISCCART  372315.9  3768669.9  40.81
RE DISCCART  372340.9  3768669.9  40.22
RE DISCCART  372365.9  3768669.9  39.96
RE DISCCART  371340.9  3768694.9  58.49
RE DISCCART  371365.9  3768694.9  57.72
RE DISCCART  371390.9  3768694.9  56.57
RE DISCCART  371415.9  3768694.9  56
RE DISCCART  371440.9  3768694.9  55.24
RE DISCCART  371465.9  3768694.9  54.75
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RE DISCCART  371490.9  3768694.9  54.3
RE DISCCART  371515.9  3768694.9  54.05
RE DISCCART  371540.9  3768694.9  53.6
RE DISCCART  371565.9  3768694.9  53.35
RE DISCCART  371590.9  3768694.9  52.82
RE DISCCART  371615.9  3768694.9  52.6
RE DISCCART  371640.9  3768694.9  52.1
RE DISCCART  371665.9  3768694.9  51.85
RE DISCCART  371690.9  3768694.9  51.45
RE DISCCART  371715.9  3768694.9  51.1
RE DISCCART  371740.9  3768694.9  50.8
RE DISCCART  371765.9  3768694.9  50.6
RE DISCCART  371790.9  3768694.9  50.2
RE DISCCART  371815.9  3768694.9  50
RE DISCCART  371840.9  3768694.9  49.6
RE DISCCART  371865.9  3768694.9  49.4
RE DISCCART  371890.9  3768694.9  49.03
RE DISCCART  371915.9  3768694.9  48.8
RE DISCCART  371940.9  3768694.9  48.1
RE DISCCART  371965.9  3768694.9  47.71
RE DISCCART  371990.9  3768694.9  47
RE DISCCART  372015.9  3768694.9  46.6
RE DISCCART  372040.9  3768694.9  45.95
RE DISCCART  372065.9  3768694.9  45.6
RE DISCCART  372090.9  3768694.9  44.95
RE DISCCART  372115.9  3768694.9  44.6
RE DISCCART  372140.9  3768694.9  43.97
RE DISCCART  372165.9  3768694.9  43.6
RE DISCCART  372190.9  3768694.9  43.1
RE DISCCART  372215.9  3768694.9  42.8
RE DISCCART  372240.9  3768694.9  42.3
RE DISCCART  372265.9  3768694.9  41.9
RE DISCCART  372290.9  3768694.9  41.32
RE DISCCART  372315.9  3768694.9  40.95
RE DISCCART  372340.9  3768694.9  40.45
RE DISCCART  372365.9  3768694.9  40.1
RE DISCCART  371340.9  3768719.9  58.05
RE DISCCART  371365.9  3768719.9  57.57
RE DISCCART  371390.9  3768719.9  56.52
RE DISCCART  371415.9  3768719.9  56.11
** RCPDESCR  Elev 40ft
RE DISCCART  371440.9  3768719.9  55.25
** RCPDESCR  Elev 40ft
RE DISCCART  371465.9  3768719.9  54.87
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RE DISCCART  371490.9  3768719.9  54.26
RE DISCCART  371515.9  3768719.9  54.11
RE DISCCART  371540.9  3768719.9  53.53
RE DISCCART  371565.9  3768719.9  53.31
RE DISCCART  371590.9  3768719.9  52.75
RE DISCCART  371615.9  3768719.9  52.61
RE DISCCART  371640.9  3768719.9  52.19
RE DISCCART  371665.9  3768719.9  51.87
RE DISCCART  371690.9  3768719.9  51.42
RE DISCCART  371715.9  3768719.9  51.2
RE DISCCART  371740.9  3768719.9  50.74
RE DISCCART  371765.9  3768719.9  50.61
RE DISCCART  371790.9  3768719.9  50.23
RE DISCCART  371815.9  3768719.9  50.11
RE DISCCART  371840.9  3768719.9  49.7
RE DISCCART  371865.9  3768719.9  49.46
RE DISCCART  371890.9  3768719.9  49.03
RE DISCCART  371915.9  3768719.9  48.81
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RE DISCCART  371965.9  3768719.9  47.81
RE DISCCART  371990.9  3768719.9  47.03
RE DISCCART  372015.9  3768719.9  46.61
RE DISCCART  372040.9  3768719.9  46.03
RE DISCCART  372065.9  3768719.9  45.61
RE DISCCART  372090.9  3768719.9  45.03
RE DISCCART  372115.9  3768719.9  44.61
RE DISCCART  372140.9  3768719.9  44.03
RE DISCCART  372165.9  3768719.9  43.64
RE DISCCART  372190.9  3768719.9  43.04
RE DISCCART  372215.9  3768719.9  42.87
RE DISCCART  372240.9  3768719.9  42.25
RE DISCCART  372265.9  3768719.9  41.96
RE DISCCART  372290.9  3768719.9  41.26
RE DISCCART  372315.9  3768719.9  41.08
RE DISCCART  372340.9  3768719.9  40.52
RE DISCCART  372365.9  3768719.9  40.28
RE DISCCART  371340.9  3768744.9  57.82
RE DISCCART  371365.9  3768744.9  57.32
RE DISCCART  371390.9  3768744.9  56.52
RE DISCCART  371415.9  3768744.9  56.1
** RCPDESCR  Elev 40ft
RE DISCCART  371440.9  3768744.9  55.45
** RCPDESCR  Elev 40ft
RE DISCCART  371465.9  3768744.9  55
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RE DISCCART  371490.9  3768744.9  54.45
RE DISCCART  371515.9  3768744.9  54.1
RE DISCCART  371540.9  3768744.9  53.6
RE DISCCART  371565.9  3768744.9  53.3
RE DISCCART  371590.9  3768744.9  52.95
RE DISCCART  371615.9  3768744.9  52.6
RE DISCCART  371640.9  3768744.9  52.13
RE DISCCART  371665.9  3768744.9  51.95
RE DISCCART  371690.9  3768744.9  51.45
RE DISCCART  371715.9  3768744.9  51.2
RE DISCCART  371740.9  3768744.9  50.95
RE DISCCART  371765.9  3768744.9  50.7
RE DISCCART  371790.9  3768744.9  50.32
RE DISCCART  371815.9  3768744.9  50.1
RE DISCCART  371840.9  3768744.9  49.8
RE DISCCART  371865.9  3768744.9  49.5
RE DISCCART  371890.9  3768744.9  49.1
RE DISCCART  371915.9  3768744.9  48.83
RE DISCCART  371940.9  3768744.9  48.3
RE DISCCART  371965.9  3768744.9  47.85
RE DISCCART  371990.9  3768744.9  47.1
RE DISCCART  372015.9  3768744.9  46.8
RE DISCCART  372040.9  3768744.9  46.1
RE DISCCART  372065.9  3768744.9  45.8
RE DISCCART  372090.9  3768744.9  45.1
RE DISCCART  372115.9  3768744.9  44.8
RE DISCCART  372140.9  3768744.9  44.1
RE DISCCART  372165.9  3768744.9  43.8
RE DISCCART  372190.9  3768744.9  43.3
RE DISCCART  372215.9  3768744.9  42.95
RE DISCCART  372240.9  3768744.9  42.45
RE DISCCART  372265.9  3768744.9  42.1
RE DISCCART  372290.9  3768744.9  41.6
RE DISCCART  372315.9  3768744.9  41.15
RE DISCCART  372340.9  3768744.9  40.63
RE DISCCART  372365.9  3768744.9  40.4
RE DISCCART  371340.9  3768769.9  57.52
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RE DISCCART  371390.9  3768769.9  56.25
RE DISCCART  371415.9  3768769.9  55.96
RE DISCCART  371440.9  3768769.9  55.4
RE DISCCART  371465.9  3768769.9  54.96
RE DISCCART  371490.9  3768769.9  54.42
RE DISCCART  371515.9  3768769.9  54.11
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RE DISCCART  371540.9  3768769.9  53.53
RE DISCCART  371565.9  3768769.9  53.33
RE DISCCART  371590.9  3768769.9  52.92
RE DISCCART  371615.9  3768769.9  52.61
RE DISCCART  371640.9  3768769.9  52.2
RE DISCCART  371665.9  3768769.9  51.96
RE DISCCART  371690.9  3768769.9  51.5
RE DISCCART  371715.9  3768769.9  51.31
RE DISCCART  371740.9  3768769.9  50.92
RE DISCCART  371765.9  3768769.9  50.7
RE DISCCART  371790.9  3768769.9  50.42
RE DISCCART  371815.9  3768769.9  50.11
RE DISCCART  371840.9  3768769.9  49.73
RE DISCCART  371865.9  3768769.9  49.5
RE DISCCART  371890.9  3768769.9  49.03
RE DISCCART  371915.9  3768769.9  48.87
RE DISCCART  371940.9  3768769.9  48.23
RE DISCCART  371965.9  3768769.9  47.87
RE DISCCART  371990.9  3768769.9  47.03
RE DISCCART  372015.9  3768769.9  46.81
RE DISCCART  372040.9  3768769.9  46.03
RE DISCCART  372065.9  3768769.9  45.81
RE DISCCART  372090.9  3768769.9  45.06
RE DISCCART  372115.9  3768769.9  44.85
RE DISCCART  372140.9  3768769.9  44.05
RE DISCCART  372165.9  3768769.9  43.85
RE DISCCART  372190.9  3768769.9  43.23
RE DISCCART  372215.9  3768769.9  42.96
RE DISCCART  372240.9  3768769.9  42.42
RE DISCCART  372265.9  3768769.9  42.11
RE DISCCART  372290.9  3768769.9  41.53
RE DISCCART  372315.9  3768769.9  41.31
RE DISCCART  372340.9  3768769.9  40.73
RE DISCCART  372365.9  3768769.9  40.47
RE DISCCART  371340.9  3768794.9  57.19
RE DISCCART  371365.9  3768794.9  56.46

RE DISCCART  371390.9  3768794.9  56.02
RE DISCCART  371415.9  3768794.9  55.64
RE DISCCART  371440.9  3768794.9  55.17
RE DISCCART  371465.9  3768794.9  54.82
RE DISCCART  371490.9  3768794.9  54.42
RE DISCCART  371515.9  3768794.9  54.1
RE DISCCART  371540.9  3768794.9  53.6
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RE DISCCART  371565.9  3768794.9  53.3
RE DISCCART  371590.9  3768794.9  52.95
RE DISCCART  371615.9  3768794.9  52.6
RE DISCCART  371640.9  3768794.9  52.3
RE DISCCART  371665.9  3768794.9  52
RE DISCCART  371690.9  3768794.9  51.6
RE DISCCART  371715.9  3768794.9  51.33
RE DISCCART  371740.9  3768794.9  51
RE DISCCART  371765.9  3768794.9  50.8
RE DISCCART  371790.9  3768794.9  50.45
RE DISCCART  371815.9  3768794.9  50.1
RE DISCCART  371840.9  3768794.9  49.8
RE DISCCART  371865.9  3768794.9  49.5
RE DISCCART  371890.9  3768794.9  49.1
RE DISCCART  371915.9  3768794.9  48.82
RE DISCCART  371940.9  3768794.9  48.3
RE DISCCART  371965.9  3768794.9  47.85
RE DISCCART  371990.9  3768794.9  47.2
RE DISCCART  372015.9  3768794.9  46.83
RE DISCCART  372040.9  3768794.9  46.3
RE DISCCART  372065.9  3768794.9  45.85
RE DISCCART  372090.9  3768794.9  45.3
RE DISCCART  372115.9  3768794.9  44.85
RE DISCCART  372140.9  3768794.9  44.3
RE DISCCART  372165.9  3768794.9  43.85
RE DISCCART  372190.9  3768794.9  43.35
RE DISCCART  372215.9  3768794.9  42.98
RE DISCCART  372240.9  3768794.9  42.5
RE DISCCART  372265.9  3768794.9  42.15
RE DISCCART  372290.9  3768794.9  41.73
RE DISCCART  372315.9  3768794.9  41.4
RE DISCCART  372340.9  3768794.9  40.88
RE DISCCART  372365.9  3768794.9  40.6
RE DISCCART  371340.9  3768819.9  56.73
RE DISCCART  371365.9  3768819.9  56.09
RE DISCCART  371390.9  3768819.9  55.49
RE DISCCART  371415.9  3768819.9  55.27
** RCPDESCR  Elev 40ft
RE DISCCART  371440.9  3768819.9  54.9
RE DISCCART  371465.9  3768819.9  54.67
RE DISCCART  371490.9  3768819.9  54.23
RE DISCCART  371515.9  3768819.9  54
RE DISCCART  371540.9  3768819.9  53.53
RE DISCCART  371565.9  3768819.9  53.31
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RE DISCCART  371590.9  3768819.9  52.92
RE DISCCART  371615.9  3768819.9  52.61
RE DISCCART  371640.9  3768819.9  52.23
RE DISCCART  371665.9  3768819.9  52
RE DISCCART  371690.9  3768819.9  51.53
RE DISCCART  371715.9  3768819.9  51.46
RE DISCCART  371740.9  3768819.9  51
RE DISCCART  371765.9  3768819.9  50.81
RE DISCCART  371790.9  3768819.9  50.42
RE DISCCART  371815.9  3768819.9  50.11
RE DISCCART  371840.9  3768819.9  49.73
RE DISCCART  371865.9  3768819.9  49.5
RE DISCCART  371890.9  3768819.9  49.03
RE DISCCART  371915.9  3768819.9  48.81
RE DISCCART  371940.9  3768819.9  48.23
RE DISCCART  371965.9  3768819.9  47.87
RE DISCCART  371990.9  3768819.9  47.23
RE DISCCART  372015.9  3768819.9  46.87
RE DISCCART  372040.9  3768819.9  46.23
RE DISCCART  372065.9  3768819.9  45.87
RE DISCCART  372090.9  3768819.9  45.23
RE DISCCART  372115.9  3768819.9  44.87
RE DISCCART  372140.9  3768819.9  44.23
RE DISCCART  372165.9  3768819.9  43.87
RE DISCCART  372190.9  3768819.9  43.25
RE DISCCART  372215.9  3768819.9  43
RE DISCCART  372240.9  3768819.9  42.52
RE DISCCART  372265.9  3768819.9  42.28
RE DISCCART  372290.9  3768819.9  41.73
RE DISCCART  372315.9  3768819.9  41.46
RE DISCCART  372340.9  3768819.9  40.92
RE DISCCART  372365.9  3768819.9  40.64
RE DISCCART  371340.9  3768844.9  56.45
RE DISCCART  371365.9  3768844.9  55.7
RE DISCCART  371390.9  3768844.9  54.8
RE DISCCART  371415.9  3768844.9  54.7
RE DISCCART  371440.9  3768844.9  54.57
RE DISCCART  371465.9  3768844.9  54.37
RE DISCCART  371490.9  3768844.9  54.1
RE DISCCART  371515.9  3768844.9  53.95
RE DISCCART  371540.9  3768844.9  53.6
RE DISCCART  371565.9  3768844.9  53.3
RE DISCCART  371590.9  3768844.9  52.95
RE DISCCART  371615.9  3768844.9  52.65
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RE DISCCART  371640.9  3768844.9  52.23
RE DISCCART  371665.9  3768844.9  51.98
RE DISCCART  371690.9  3768844.9  51.6
RE DISCCART  371715.9  3768844.9  51.32
RE DISCCART  371740.9  3768844.9  51
RE DISCCART  371765.9  3768844.9  50.7
RE DISCCART  371790.9  3768844.9  50.3
RE DISCCART  371815.9  3768844.9  50.1
RE DISCCART  371840.9  3768844.9  49.7
RE DISCCART  371865.9  3768844.9  49.47
RE DISCCART  371890.9  3768844.9  49.1
RE DISCCART  371915.9  3768844.9  48.8
RE DISCCART  371940.9  3768844.9  48.3
RE DISCCART  371965.9  3768844.9  47.85
RE DISCCART  371990.9  3768844.9  47.2
RE DISCCART  372015.9  3768844.9  46.8
RE DISCCART  372040.9  3768844.9  46.3
RE DISCCART  372065.9  3768844.9  45.85
RE DISCCART  372090.9  3768844.9  45.3
RE DISCCART  372115.9  3768844.9  44.85
RE DISCCART  372140.9  3768844.9  44.3
RE DISCCART  372165.9  3768844.9  43.85
RE DISCCART  372190.9  3768844.9  43.35
RE DISCCART  372215.9  3768844.9  43.05
RE DISCCART  372240.9  3768844.9  42.6
RE DISCCART  372265.9  3768844.9  42.3
RE DISCCART  372290.9  3768844.9  41.8
RE DISCCART  372315.9  3768844.9  41.55
RE DISCCART  372340.9  3768844.9  41.1
RE DISCCART  372365.9  3768844.9  40.8
RE DISCCART  371340.9  3768869.9  56.28
RE DISCCART  371365.9  3768869.9  55.72
RE DISCCART  371390.9  3768869.9  54.73
RE DISCCART  371415.9  3768869.9  54.5
** RCPDESCR  Elev 30ft
RE DISCCART  371440.9  3768869.9  54.23
** RCPDESCR  Elev 40ft
RE DISCCART  371465.9  3768869.9  54.2
RE DISCCART  371490.9  3768869.9  54
RE DISCCART  371515.9  3768869.9  53.96
RE DISCCART  371540.9  3768869.9  53.53
RE DISCCART  371565.9  3768869.9  53.46
RE DISCCART  371590.9  3768869.9  53
RE DISCCART  371615.9  3768869.9  52.81
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** RCPDESCR  Elev 30ft
RE DISCCART  371640.9  3768869.9  52.23
** RCPDESCR  Elev 40ft
RE DISCCART  371665.9  3768869.9  52.08
** RCPDESCR  Elev 30ft
RE DISCCART  371690.9  3768869.9  51.53
RE DISCCART  371715.9  3768869.9  51.37
** RCPDESCR  Elev 30ft
RE DISCCART  371740.9  3768869.9  50.99
** RCPDESCR  Elev 30ft
RE DISCCART  371765.9  3768869.9  50.7
RE DISCCART  371790.9  3768869.9  50.23
RE DISCCART  371815.9  3768869.9  50.11
RE DISCCART  371840.9  3768869.9  49.7
RE DISCCART  371865.9  3768869.9  49.46
RE DISCCART  371890.9  3768869.9  49.03
RE DISCCART  371915.9  3768869.9  48.81
RE DISCCART  371940.9  3768869.9  48.23
RE DISCCART  371965.9  3768869.9  47.87
RE DISCCART  371990.9  3768869.9  47.03
RE DISCCART  372015.9  3768869.9  46.81
RE DISCCART  372040.9  3768869.9  46.19
RE DISCCART  372065.9  3768869.9  45.87
RE DISCCART  372090.9  3768869.9  45.23
RE DISCCART  372115.9  3768869.9  44.87
RE DISCCART  372140.9  3768869.9  44.23
RE DISCCART  372165.9  3768869.9  43.87
RE DISCCART  372190.9  3768869.9  43.25
RE DISCCART  372215.9  3768869.9  43
RE DISCCART  372240.9  3768869.9  42.53
RE DISCCART  372265.9  3768869.9  42.31
RE DISCCART  372290.9  3768869.9  41.75
RE DISCCART  372315.9  3768869.9  41.61
RE DISCCART  372340.9  3768869.9  41.2
RE DISCCART  372365.9  3768869.9  40.96
RE DISCCART  371340.9  3768894.9  56.75
RE DISCCART  371365.9  3768894.9  55.9
RE DISCCART  371390.9  3768894.9  54.88
RE DISCCART  371415.9  3768894.9  54.75
** RCPDESCR  Elev 30ft
RE DISCCART  371440.9  3768894.9  54.53
** RCPDESCR  Elev 40ft
RE DISCCART  371465.9  3768894.9  54.45
RE DISCCART  371490.9  3768894.9  54.23
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RE DISCCART  371515.9  3768894.9  54.15
RE DISCCART  371540.9  3768894.9  53.8
RE DISCCART  371565.9  3768894.9  53.5
RE DISCCART  371590.9  3768894.9  53.1
RE DISCCART  371615.9  3768894.9  52.8
** RCPDESCR  Elev 30ft
RE DISCCART  371640.9  3768894.9  52.35
** RCPDESCR  Elev 40ft
RE DISCCART  371665.9  3768894.9  52.1
** RCPDESCR  Elev 30ft
RE DISCCART  371690.9  3768894.9  51.6
RE DISCCART  371715.9  3768894.9  51.35
** RCPDESCR  Elev 30ft
RE DISCCART  371740.9  3768894.9  50.95
** RCPDESCR  Elev 30ft
RE DISCCART  371765.9  3768894.9  50.7
RE DISCCART  371790.9  3768894.9  50.3
RE DISCCART  371815.9  3768894.9  50.05
RE DISCCART  371840.9  3768894.9  49.6
RE DISCCART  371865.9  3768894.9  49.45
** RCPDESCR  Elev 30ft
RE DISCCART  371890.9  3768894.9  49.1
** RCPDESCR  Elev 40ft
RE DISCCART  371915.9  3768894.9  48.8
RE DISCCART  371940.9  3768894.9  48.3
** RCPDESCR  Elev 40ft
RE DISCCART  371965.9  3768894.9  47.82
** RCPDESCR  Elev 40ft
RE DISCCART  371990.9  3768894.9  47.1
** RCPDESCR  Elev 30ft
RE DISCCART  372015.9  3768894.9  46.8
** RCPDESCR  Elev 30ft
RE DISCCART  372040.9  3768894.9  46.1
RE DISCCART  372065.9  3768894.9  45.82
RE DISCCART  372090.9  3768894.9  45.3
RE DISCCART  372115.9  3768894.9  44.85
RE DISCCART  372140.9  3768894.9  44.3
RE DISCCART  372165.9  3768894.9  43.85
RE DISCCART  372190.9  3768894.9  43.35
RE DISCCART  372215.9  3768894.9  42.95
RE DISCCART  372240.9  3768894.9  42.5
RE DISCCART  372265.9  3768894.9  42.3
RE DISCCART  372290.9  3768894.9  41.95
RE DISCCART  372315.9  3768894.9  41.6
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RE DISCCART  372340.9  3768894.9  41.3
RE DISCCART  372365.9  3768894.9  41.05
RE DISCCART  371340.9  3768919.9  56.78
RE DISCCART  371365.9  3768919.9  56.17
RE DISCCART  371390.9  3768919.9  55.23
RE DISCCART  371415.9  3768919.9  55.11
RE DISCCART  371440.9  3768919.9  54.73
RE DISCCART  371465.9  3768919.9  54.64
RE DISCCART  371490.9  3768919.9  54.52
RE DISCCART  371515.9  3768919.9  54.35
RE DISCCART  371540.9  3768919.9  53.76
RE DISCCART  371565.9  3768919.9  53.61
RE DISCCART  371590.9  3768919.9  53.03
RE DISCCART  371615.9  3768919.9  52.81
RE DISCCART  371640.9  3768919.9  52.42
RE DISCCART  371665.9  3768919.9  52.11
** RCPDESCR  Elev 30ft
RE DISCCART  371690.9  3768919.9  51.53
RE DISCCART  371715.9  3768919.9  51.46
RE DISCCART  371740.9  3768919.9  51
RE DISCCART  371765.9  3768919.9  50.7
RE DISCCART  371790.9  3768919.9  50.23
RE DISCCART  371815.9  3768919.9  50
RE DISCCART  371840.9  3768919.9  49.53
RE DISCCART  371865.9  3768919.9  49.33
** RCPDESCR  Elev 30ft
RE DISCCART  371890.9  3768919.9  49
** RCPDESCR  Elev 40ft
RE DISCCART  371915.9  3768919.9  48.73

RE DISCCART  371940.9  3768919.9  48.03
** RCPDESCR  Elev 40ft
RE DISCCART  371965.9  3768919.9  47.81
** RCPDESCR  Elev 40ft
RE DISCCART  371990.9  3768919.9  47.03
** RCPDESCR  Elev 30ft
RE DISCCART  372015.9  3768919.9  46.67
** RCPDESCR  Elev 30ft
RE DISCCART  372040.9  3768919.9  46.03
RE DISCCART  372065.9  3768919.9  45.81
RE DISCCART  372090.9  3768919.9  45.23
RE DISCCART  372115.9  3768919.9  44.87
RE DISCCART  372140.9  3768919.9  44.23
RE DISCCART  372165.9  3768919.9  43.87
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RE DISCCART  372190.9  3768919.9  43.25
RE DISCCART  372215.9  3768919.9  42.96
RE DISCCART  372240.9  3768919.9  42.5
RE DISCCART  372265.9  3768919.9  42.31
RE DISCCART  372290.9  3768919.9  41.92
RE DISCCART  372315.9  3768919.9  41.7
RE DISCCART  372340.9  3768919.9  41.25
RE DISCCART  372365.9  3768919.9  41.11
RE DISCCART  371340.9  3768944.9  57.25
RE DISCCART  371365.9  3768944.9  56.49
RE DISCCART  371390.9  3768944.9  55.92
RE DISCCART  371415.9  3768944.9  55.65
RE DISCCART  371440.9  3768944.9  55.28
RE DISCCART  371465.9  3768944.9  55.11
RE DISCCART  371490.9  3768944.9  54.82
RE DISCCART  371515.9  3768944.9  54.48
RE DISCCART  371540.9  3768944.9  54
RE DISCCART  371565.9  3768944.9  53.6
RE DISCCART  371590.9  3768944.9  53.2
RE DISCCART  371615.9  3768944.9  52.9
RE DISCCART  371640.9  3768944.9  52.45
RE DISCCART  371665.9  3768944.9  52.1
** RCPDESCR  Elev 30ft
RE DISCCART  371690.9  3768944.9  51.7
RE DISCCART  371715.9  3768944.9  51.45
RE DISCCART  371740.9  3768944.9  51
RE DISCCART  371765.9  3768944.9  50.7
RE DISCCART  371790.9  3768944.9  50.3
RE DISCCART  371815.9  3768944.9  50
RE DISCCART  371840.9  3768944.9  49.5
RE DISCCART  371865.9  3768944.9  49.2
RE DISCCART  371890.9  3768944.9  48.7
RE DISCCART  371915.9  3768944.9  48.55
RE DISCCART  371940.9  3768944.9  48.07
RE DISCCART  371965.9  3768944.9  47.6
RE DISCCART  371990.9  3768944.9  47.1
RE DISCCART  372015.9  3768944.9  46.6
RE DISCCART  372040.9  3768944.9  46.1
RE DISCCART  372065.9  3768944.9  45.7
RE DISCCART  372090.9  3768944.9  45.2
RE DISCCART  372115.9  3768944.9  44.85
RE DISCCART  372140.9  3768944.9  44.35
RE DISCCART  372165.9  3768944.9  43.95
RE DISCCART  372190.9  3768944.9  43.38
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RE DISCCART  372215.9  3768944.9  43.1
RE DISCCART  372240.9  3768944.9  42.6
RE DISCCART  372265.9  3768944.9  42.33
RE DISCCART  372290.9  3768944.9  42
RE DISCCART  372315.9  3768944.9  41.8
RE DISCCART  372340.9  3768944.9  41.47
RE DISCCART  372365.9  3768944.9  41.25
RE DISCCART  371340.9  3768969.9  57.26
RE DISCCART  371365.9  3768969.9  56.8
RE DISCCART  371390.9  3768969.9  56.06
RE DISCCART  371415.9  3768969.9  55.9
RE DISCCART  371440.9  3768969.9  55.52
RE DISCCART  371465.9  3768969.9  55.35
RE DISCCART  371490.9  3768969.9  54.75
RE DISCCART  371515.9  3768969.9  54.61
RE DISCCART  371540.9  3768969.9  54.02
RE DISCCART  371565.9  3768969.9  53.61
RE DISCCART  371590.9  3768969.9  53.2
RE DISCCART  371615.9  3768969.9  52.96
RE DISCCART  371640.9  3768969.9  52.42
RE DISCCART  371665.9  3768969.9  52.11
RE DISCCART  371690.9  3768969.9  51.7
RE DISCCART  371715.9  3768969.9  51.46
RE DISCCART  371740.9  3768969.9  51
RE DISCCART  371765.9  3768969.9  50.7
RE DISCCART  371790.9  3768969.9  50.23
RE DISCCART  371815.9  3768969.9  50
RE DISCCART  371840.9  3768969.9  49.5
RE DISCCART  371865.9  3768969.9  49.17
** RCPDESCR  Elev 30ft
RE DISCCART  371890.9  3768969.9  48.7
RE DISCCART  371915.9  3768969.9  48.42
RE DISCCART  371940.9  3768969.9  47.92
RE DISCCART  371965.9  3768969.9  47.61
RE DISCCART  371990.9  3768969.9  47.03
RE DISCCART  372015.9  3768969.9  46.61
RE DISCCART  372040.9  3768969.9  46.03
RE DISCCART  372065.9  3768969.9  45.7
RE DISCCART  372090.9  3768969.9  45.2
RE DISCCART  372115.9  3768969.9  44.87
RE DISCCART  372140.9  3768969.9  44.25
RE DISCCART  372165.9  3768969.9  43.96
RE DISCCART  372190.9  3768969.9  43.42
RE DISCCART  372215.9  3768969.9  43.11
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RE DISCCART  372240.9  3768969.9  42.53
RE DISCCART  372265.9  3768969.9  42.46
RE DISCCART  372290.9  3768969.9  42.03
** RCPDESCR  Elev 40ft
RE DISCCART  372315.9  3768969.9  41.85
** RCPDESCR  Elev 40ft
RE DISCCART  372340.9  3768969.9  41.5
RE DISCCART  372365.9  3768969.9  41.31
RE DISCCART  371340.9  3768994.9  57.57
RE DISCCART  371365.9  3768994.9  57.08
RE DISCCART  371390.9  3768994.9  56.42
RE DISCCART  371415.9  3768994.9  56.1
RE DISCCART  371440.9  3768994.9  55.67
RE DISCCART  371465.9  3768994.9  55.35
RE DISCCART  371490.9  3768994.9  54.8
RE DISCCART  371515.9  3768994.9  54.5
RE DISCCART  371540.9  3768994.9  54.1
RE DISCCART  371565.9  3768994.9  53.7
RE DISCCART  371590.9  3768994.9  53.3
RE DISCCART  371615.9  3768994.9  52.85
RE DISCCART  371640.9  3768994.9  52.45
RE DISCCART  371665.9  3768994.9  52.1
RE DISCCART  371690.9  3768994.9  51.7
RE DISCCART  371715.9  3768994.9  51.45
RE DISCCART  371815.9  3768994.9  49.95
RE DISCCART  371840.9  3768994.9  49.45
RE DISCCART  371865.9  3768994.9  49.1
** RCPDESCR  Elev 30ft
RE DISCCART  371890.9  3768994.9  48.7
RE DISCCART  371915.9  3768994.9  48.35
RE DISCCART  371940.9  3768994.9  47.85
RE DISCCART  371965.9  3768994.9  47.6
RE DISCCART  371990.9  3768994.9  46.95
RE DISCCART  372015.9  3768994.9  46.6
RE DISCCART  372040.9  3768994.9  46.1
RE DISCCART  372065.9  3768994.9  45.65
RE DISCCART  372090.9  3768994.9  45.2
RE DISCCART  372115.9  3768994.9  44.95
RE DISCCART  372140.9  3768994.9  44.45
RE DISCCART  372165.9  3768994.9  44.1
RE DISCCART  372190.9  3768994.9  43.6
RE DISCCART  372215.9  3768994.9  43.25
RE DISCCART  372240.9  3768994.9  42.8
RE DISCCART  372265.9  3768994.9  42.5
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RE DISCCART  372290.9  3768994.9  42.2
** RCPDESCR  Elev 40ft
RE DISCCART  372315.9  3768994.9  41.98
** RCPDESCR  Elev 40ft
RE DISCCART  372340.9  3768994.9  41.63
RE DISCCART  372365.9  3768994.9  41.48
RE DISCCART  371340.9  3769019.9  57.56
RE DISCCART  371365.9  3769019.9  57.11
RE DISCCART  371390.9  3769019.9  56.53
RE DISCCART  371415.9  3769019.9  56.14
RE DISCCART  371440.9  3769019.9  55.53
RE DISCCART  371465.9  3769019.9  55.31
RE DISCCART  371490.9  3769019.9  54.7
RE DISCCART  371515.9  3769019.9  54.46
RE DISCCART  371540.9  3769019.9  54
RE DISCCART  371565.9  3769019.9  53.7
RE DISCCART  371590.9  3769019.9  53.23
RE DISCCART  371615.9  3769019.9  52.96
RE DISCCART  371640.9  3769019.9  52.44
RE DISCCART  371665.9  3769019.9  52.14
RE DISCCART  371690.9  3769019.9  51.7
RE DISCCART  371715.9  3769019.9  51.46
RE DISCCART  371740.9  3769019.9  50.99
RE DISCCART  371765.9  3769019.9  50.67
RE DISCCART  371790.9  3769019.9  50.2
RE DISCCART  371815.9  3769019.9  49.96
RE DISCCART  371840.9  3769019.9  49.42
RE DISCCART  371865.9  3769019.9  49.11
RE DISCCART  371890.9  3769019.9  48.7
RE DISCCART  371915.9  3769019.9  48.37
RE DISCCART  371940.9  3769019.9  47.75
RE DISCCART  371965.9  3769019.9  47.61
RE DISCCART  371990.9  3769019.9  46.92
RE DISCCART  372015.9  3769019.9  46.61
RE DISCCART  372040.9  3769019.9  46.03
RE DISCCART  372065.9  3769019.9  45.78
RE DISCCART  372090.9  3769019.9  45.23
RE DISCCART  372115.9  3769019.9  44.96
RE DISCCART  372140.9  3769019.9  44.42
RE DISCCART  372165.9  3769019.9  44.11
RE DISCCART  372190.9  3769019.9  43.53
RE DISCCART  372215.9  3769019.9  43.35
RE DISCCART  372240.9  3769019.9  42.76
RE DISCCART  372265.9  3769019.9  42.61
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RE DISCCART  372290.9  3769019.9  42.22
RE DISCCART  372315.9  3769019.9  42.08
RE DISCCART  372340.9  3769019.9  41.72
RE DISCCART  372365.9  3769019.9  41.58
RE DISCCART  371340.9  3769044.9  57.7
RE DISCCART  371365.9  3769044.9  57.15
RE DISCCART  371390.9  3769044.9  56.6
RE DISCCART  371415.9  3769044.9  56.1
RE DISCCART  371440.9  3769044.9  55.6
RE DISCCART  371465.9  3769044.9  55.1
RE DISCCART  371490.9  3769044.9  54.6
RE DISCCART  371515.9  3769044.9  54.45
RE DISCCART  371540.9  3769044.9  53.98
RE DISCCART  371565.9  3769044.9  53.7
RE DISCCART  371590.9  3769044.9  53.3
RE DISCCART  371615.9  3769044.9  53
RE DISCCART  371640.9  3769044.9  52.6
** RCPDESCR  Elev 40ft
RE DISCCART  371665.9  3769044.9  52.3
** RCPDESCR  Elev 40ft
RE DISCCART  371690.9  3769044.9  51.84
RE DISCCART  371715.9  3769044.9  51.4
RE DISCCART  371740.9  3769044.9  50.95
RE DISCCART  371765.9  3769044.9  50.7
RE DISCCART  371790.9  3769044.9  50.3
RE DISCCART  371815.9  3769044.9  49.95
** RCPDESCR  Elev 30ft
RE DISCCART  371840.9  3769044.9  49.5
** RCPDESCR  Elev 30ft
RE DISCCART  371865.9  3769044.9  49.2
RE DISCCART  371890.9  3769044.9  48.73
RE DISCCART  371915.9  3769044.9  48.45
RE DISCCART  371940.9  3769044.9  47.95
RE DISCCART  371965.9  3769044.9  47.6
RE DISCCART  371990.9  3769044.9  47.1
RE DISCCART  372015.9  3769044.9  46.6
RE DISCCART  372040.9  3769044.9  46.1
RE DISCCART  372065.9  3769044.9  45.8
RE DISCCART  372090.9  3769044.9  45.3
RE DISCCART  372115.9  3769044.9  45
RE DISCCART  372140.9  3769044.9  44.6
RE DISCCART  372165.9  3769044.9  44.25
RE DISCCART  372190.9  3769044.9  43.8
RE DISCCART  372215.9  3769044.9  43.48
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RE DISCCART  372240.9  3769044.9  43.03
RE DISCCART  372265.9  3769044.9  42.75
RE DISCCART  372290.9  3769044.9  42.47
RE DISCCART  372315.9  3769044.9  42.38
RE DISCCART  372340.9  3769044.9  41.97
RE DISCCART  372365.9  3769044.9  41.75
RE DISCCART  371340.9  3769069.9  57.56
RE DISCCART  371365.9  3769069.9  57.22
RE DISCCART  371390.9  3769069.9  56.53
RE DISCCART  371415.9  3769069.9  56.11
RE DISCCART  371440.9  3769069.9  55.53
RE DISCCART  371465.9  3769069.9  55.11
RE DISCCART  371490.9  3769069.9  54.53
RE DISCCART  371515.9  3769069.9  54.42
RE DISCCART  371540.9  3769069.9  53.99
RE DISCCART  371565.9  3769069.9  53.7
RE DISCCART  371590.9  3769069.9  53.23
RE DISCCART  371615.9  3769069.9  53
RE DISCCART  371640.9  3769069.9  52.53
** RCPDESCR  Elev 40ft
RE DISCCART  371665.9  3769069.9  52.31
** RCPDESCR  Elev 40ft

RE DISCCART  371690.9  3769069.9  51.74
RE DISCCART  371715.9  3769069.9  51.58
RE DISCCART  371740.9  3769069.9  51.03
RE DISCCART  371765.9  3769069.9  50.78
RE DISCCART  371790.9  3769069.9  50.23
RE DISCCART  371815.9  3769069.9  49.96
RE DISCCART  371840.9  3769069.9  49.5
RE DISCCART  371865.9  3769069.9  49.2
RE DISCCART  371890.9  3769069.9  48.73
RE DISCCART  371915.9  3769069.9  48.46
RE DISCCART  371940.9  3769069.9  47.92
RE DISCCART  371965.9  3769069.9  47.61
RE DISCCART  371990.9  3769069.9  47.03
RE DISCCART  372015.9  3769069.9  46.78
RE DISCCART  372040.9  3769069.9  46.03
RE DISCCART  372065.9  3769069.9  45.85
RE DISCCART  372090.9  3769069.9  45.25
RE DISCCART  372115.9  3769069.9  45.11
RE DISCCART  372140.9  3769069.9  44.53
RE DISCCART  372165.9  3769069.9  44.38
RE DISCCART  372190.9  3769069.9  43.76
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RE DISCCART  372215.9  3769069.9  43.61
RE DISCCART  372240.9  3769069.9  43.04
RE DISCCART  372265.9  3769069.9  42.9
RE DISCCART  372290.9  3769069.9  42.7
RE DISCCART  372315.9  3769069.9  42.47
RE DISCCART  372340.9  3769069.9  42.03
RE DISCCART  372365.9  3769069.9  41.85
RE DISCCART  371340.9  3769094.9  57.67
RE DISCCART  371365.9  3769094.9  57.1
RE DISCCART  371390.9  3769094.9  56.55
RE DISCCART  371415.9  3769094.9  56.1
RE DISCCART  371440.9  3769094.9  55.52
RE DISCCART  371465.9  3769094.9  55.1
RE DISCCART  371490.9  3769094.9  54.6
RE DISCCART  371515.9  3769094.9  54.35
RE DISCCART  371540.9  3769094.9  53.95
RE DISCCART  371565.9  3769094.9  53.7
RE DISCCART  371590.9  3769094.9  53.3
RE DISCCART  371615.9  3769094.9  53
RE DISCCART  371640.9  3769094.9  52.6
RE DISCCART  371665.9  3769094.9  52.3
RE DISCCART  371690.9  3769094.9  51.88
RE DISCCART  371715.9  3769094.9  51.6
RE DISCCART  371740.9  3769094.9  51.1
RE DISCCART  371765.9  3769094.9  50.83
RE DISCCART  371790.9  3769094.9  50.38
RE DISCCART  371815.9  3769094.9  50.1
RE DISCCART  371840.9  3769094.9  49.6
RE DISCCART  371865.9  3769094.9  49.25
RE DISCCART  371890.9  3769094.9  48.8
RE DISCCART  371915.9  3769094.9  48.45
RE DISCCART  371940.9  3769094.9  48.03
RE DISCCART  371965.9  3769094.9  47.75
RE DISCCART  371990.9  3769094.9  47.17
RE DISCCART  372015.9  3769094.9  46.83
RE DISCCART  372040.9  3769094.9  46.3
RE DISCCART  372065.9  3769094.9  45.9
RE DISCCART  372090.9  3769094.9  45.45
RE DISCCART  372115.9  3769094.9  45.1
RE DISCCART  372140.9  3769094.9  44.73
RE DISCCART  372165.9  3769094.9  44.48
RE DISCCART  372190.9  3769094.9  44.03
RE DISCCART  372215.9  3769094.9  43.8
RE DISCCART  372240.9  3769094.9  43.38
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RE DISCCART  372265.9  3769094.9  43.15
RE DISCCART  372290.9  3769094.9  42.82
RE DISCCART  372315.9  3769094.9  42.6
RE DISCCART  372340.9  3769094.9  42.2
RE DISCCART  372365.9  3769094.9  41.98
RE DISCCART  371340.9  3769119.9  57.53
RE DISCCART  371365.9  3769119.9  57.11
RE DISCCART  371390.9  3769119.9  56.42
RE DISCCART  371415.9  3769119.9  56.11
RE DISCCART  371440.9  3769119.9  55.42
RE DISCCART  371465.9  3769119.9  55.11
RE DISCCART  371490.9  3769119.9  54.53
RE DISCCART  371515.9  3769119.9  54.37
RE DISCCART  371540.9  3769119.9  53.92
RE DISCCART  371565.9  3769119.9  53.7
RE DISCCART  371590.9  3769119.9  53.23
RE DISCCART  371615.9  3769119.9  53
RE DISCCART  371640.9  3769119.9  52.53
RE DISCCART  371665.9  3769119.9  52.37
RE DISCCART  371690.9  3769119.9  51.92
RE DISCCART  371715.9  3769119.9  51.61
RE DISCCART  371740.9  3769119.9  51.03
** RCPDESCR  Elev 30ft
RE DISCCART  371765.9  3769119.9  50.87
RE DISCCART  371790.9  3769119.9  50.42
RE DISCCART  371815.9  3769119.9  50.11
RE DISCCART  371840.9  3769119.9  49.53
RE DISCCART  371865.9  3769119.9  49.31
RE DISCCART  371890.9  3769119.9  48.73
RE DISCCART  371915.9  3769119.9  48.5
RE DISCCART  371940.9  3769119.9  48.04
RE DISCCART  371965.9  3769119.9  47.85
RE DISCCART  371990.9  3769119.9  47.23
RE DISCCART  372015.9  3769119.9  46.9
RE DISCCART  372040.9  3769119.9  46.25
RE DISCCART  372065.9  3769119.9  45.96
RE DISCCART  372090.9  3769119.9  45.5
RE DISCCART  372115.9  3769119.9  45.2
RE DISCCART  372140.9  3769119.9  44.73
RE DISCCART  372165.9  3769119.9  44.58
RE DISCCART  372190.9  3769119.9  44.04
RE DISCCART  372215.9  3769119.9  43.9
RE DISCCART  372240.9  3769119.9  43.52
RE DISCCART  372265.9  3769119.9  43.31
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RE DISCCART  372290.9  3769119.9  42.92
RE DISCCART  372315.9  3769119.9  42.61
RE DISCCART  372340.9  3769119.9  42.23
RE DISCCART  372365.9  3769119.9  42.11
RE DISCCART  371340.9  3769144.9  57.6
RE DISCCART  371365.9  3769144.9  57.1
RE DISCCART  371390.9  3769144.9  56.45
RE DISCCART  371415.9  3769144.9  56.1
RE DISCCART  371440.9  3769144.9  55.45
RE DISCCART  371465.9  3769144.9  55.1
RE DISCCART  371490.9  3769144.9  54.6
RE DISCCART  371515.9  3769144.9  54.4
RE DISCCART  371540.9  3769144.9  54
RE DISCCART  371565.9  3769144.9  53.8
RE DISCCART  371590.9  3769144.9  53.35
RE DISCCART  371615.9  3769144.9  53.1
RE DISCCART  371640.9  3769144.9  52.7
RE DISCCART  371665.9  3769144.9  52.45
RE DISCCART  371690.9  3769144.9  51.97
RE DISCCART  371715.9  3769144.9  51.6
RE DISCCART  371740.9  3769144.9  51.3
RE DISCCART  371765.9  3769144.9  50.95
RE DISCCART  371790.9  3769144.9  50.5
RE DISCCART  371815.9  3769144.9  50.2
RE DISCCART  371840.9  3769144.9  49.8
RE DISCCART  371865.9  3769144.9  49.45
RE DISCCART  371890.9  3769144.9  48.97
RE DISCCART  371915.9  3769144.9  48.75
RE DISCCART  371940.9  3769144.9  48.35
RE DISCCART  371965.9  3769144.9  47.95
RE DISCCART  371990.9  3769144.9  47.45
RE DISCCART  372015.9  3769144.9  47.1
RE DISCCART  372040.9  3769144.9  46.45
RE DISCCART  372065.9  3769144.9  46.1
RE DISCCART  372090.9  3769144.9  45.6
RE DISCCART  372115.9  3769144.9  45.3
RE DISCCART  372140.9  3769144.9  44.97
RE DISCCART  372165.9  3769144.9  44.75
RE DISCCART  372190.9  3769144.9  44.35
RE DISCCART  372215.9  3769144.9  44.1
RE DISCCART  372240.9  3769144.9  43.63
RE DISCCART  372265.9  3769144.9  43.45
RE DISCCART  372290.9  3769144.9  43.03
RE DISCCART  372315.9  3769144.9  42.8
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RE DISCCART  372340.9  3769144.9  42.45
RE DISCCART  372365.9  3769144.9  42.2
RE DISCCART  371340.9  3769169.9  57.52
RE DISCCART  371365.9  3769169.9  57.07
RE DISCCART  371390.9  3769169.9  56.42
RE DISCCART  371415.9  3769169.9  56.11
RE DISCCART  371440.9  3769169.9  55.42
RE DISCCART  371465.9  3769169.9  55.11
RE DISCCART  371490.9  3769169.9  54.53
RE DISCCART  371515.9  3769169.9  54.46
RE DISCCART  371540.9  3769169.9  54.02
RE DISCCART  371565.9  3769169.9  53.81
RE DISCCART  371590.9  3769169.9  53.42
RE DISCCART  371615.9  3769169.9  53.11
RE DISCCART  371640.9  3769169.9  52.7
RE DISCCART  371665.9  3769169.9  52.46
RE DISCCART  371690.9  3769169.9  52.02
** RCPDESCR  Elev 40ft
RE DISCCART  371715.9  3769169.9  51.78
RE DISCCART  371740.9  3769169.9  51.23
RE DISCCART  371765.9  3769169.9  50.96
RE DISCCART  371790.9  3769169.9  50.5
RE DISCCART  371815.9  3769169.9  50.2
RE DISCCART  371840.9  3769169.9  49.73
RE DISCCART  371865.9  3769169.9  49.58
RE DISCCART  371890.9  3769169.9  49.04
RE DISCCART  371915.9  3769169.9  48.96
RE DISCCART  371940.9  3769169.9  48.42
RE DISCCART  371965.9  3769169.9  48.11
RE DISCCART  371990.9  3769169.9  47.44
RE DISCCART  372015.9  3769169.9  47.11
RE DISCCART  372040.9  3769169.9  46.53
RE DISCCART  372065.9  3769169.9  46.11
RE DISCCART  372090.9  3769169.9  45.53
RE DISCCART  372115.9  3769169.9  45.47
RE DISCCART  372140.9  3769169.9  45.03
RE DISCCART  372165.9  3769169.9  44.85
RE DISCCART  372190.9  3769169.9  44.42
RE DISCCART  372215.9  3769169.9  44.14
RE DISCCART  372240.9  3769169.9  43.73
RE DISCCART  372265.9  3769169.9  43.5
RE DISCCART  372290.9  3769169.9  43.03
RE DISCCART  372315.9  3769169.9  42.85
** RCPDESCR  Elev 40ft
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RE DISCCART  372340.9  3769169.9  42.5
RE DISCCART  372365.9  3769169.9  42.31
RE DISCCART  371340.9  3769194.9  57.55
RE DISCCART  371365.9  3769194.9  57.1
RE DISCCART  371390.9  3769194.9  56.45
RE DISCCART  371415.9  3769194.9  56.1
RE DISCCART  371440.9  3769194.9  55.6
RE DISCCART  371465.9  3769194.9  55.25
RE DISCCART  371490.9  3769194.9  54.82
RE DISCCART  371515.9  3769194.9  54.55
RE DISCCART  371540.9  3769194.9  54.1
RE DISCCART  371565.9  3769194.9  53.9
** RCPDESCR  Elev 50ft
RE DISCCART  371590.9  3769194.9  53.47
RE DISCCART  371615.9  3769194.9  53.15
RE DISCCART  371640.9  3769194.9  52.8
RE DISCCART  371665.9  3769194.9  52.5
RE DISCCART  371690.9  3769194.9  52.1
RE DISCCART  371715.9  3769194.9  51.8
RE DISCCART  371740.9  3769194.9  51.3
RE DISCCART  371765.9  3769194.9  51
RE DISCCART  371790.9  3769194.9  50.6
RE DISCCART  371815.9  3769194.9  50.33
RE DISCCART  371840.9  3769194.9  49.95
RE DISCCART  371865.9  3769194.9  49.65
RE DISCCART  371890.9  3769194.9  49.3
RE DISCCART  371915.9  3769194.9  48.98
RE DISCCART  371940.9  3769194.9  48.53
RE DISCCART  371965.9  3769194.9  48.21
RE DISCCART  371990.9  3769194.9  47.6
RE DISCCART  372015.9  3769194.9  47.33
RE DISCCART  372040.9  3769194.9  46.67
RE DISCCART  372065.9  3769194.9  46.33
RE DISCCART  372090.9  3769194.9  45.97
RE DISCCART  372115.9  3769194.9  45.75
RE DISCCART  372140.9  3769194.9  45.3
RE DISCCART  372165.9  3769194.9  45.05
RE DISCCART  372190.9  3769194.9  44.6
RE DISCCART  372215.9  3769194.9  44.38
RE DISCCART  372240.9  3769194.9  43.95
RE DISCCART  372265.9  3769194.9  43.65
RE DISCCART  372290.9  3769194.9  43.3
RE DISCCART  372315.9  3769194.9  43.05
RE DISCCART  372340.9  3769194.9  42.7
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RE DISCCART  372365.9  3769194.9  42.5
RE DISCCART  371340.9  3769219.9  57.42
RE DISCCART  371365.9  3769219.9  57.11
RE DISCCART  371390.9  3769219.9  56.42
RE DISCCART  371415.9  3769219.9  56.11
RE DISCCART  371440.9  3769219.9  55.53
RE DISCCART  371465.9  3769219.9  55.35
RE DISCCART  371490.9  3769219.9  54.76
RE DISCCART  371515.9  3769219.9  54.61
RE DISCCART  371540.9  3769219.9  54.2
RE DISCCART  371565.9  3769219.9  53.96
** RCPDESCR  Elev 50ft
RE DISCCART  371590.9  3769219.9  53.5
RE DISCCART  371615.9  3769219.9  53.28
RE DISCCART  371640.9  3769219.9  52.73

RE DISCCART  371665.9  3769219.9  52.5
RE DISCCART  371690.9  3769219.9  52.03
RE DISCCART  371715.9  3769219.9  51.81
RE DISCCART  371740.9  3769219.9  51.26
RE DISCCART  371765.9  3769219.9  51.11
RE DISCCART  371790.9  3769219.9  50.53
RE DISCCART  371815.9  3769219.9  50.4
RE DISCCART  371840.9  3769219.9  50
RE DISCCART  371865.9  3769219.9  49.7
RE DISCCART  371890.9  3769219.9  49.24
RE DISCCART  371915.9  3769219.9  49.11
RE DISCCART  371940.9  3769219.9  48.53
RE DISCCART  371965.9  3769219.9  48.31
RE DISCCART  371990.9  3769219.9  47.73
RE DISCCART  372015.9  3769219.9  47.37
RE DISCCART  372040.9  3769219.9  46.74
RE DISCCART  372065.9  3769219.9  46.55
RE DISCCART  372090.9  3769219.9  46.03
RE DISCCART  372115.9  3769219.9  45.81
RE DISCCART  372140.9  3769219.9  45.26
RE DISCCART  372165.9  3769219.9  45.11
RE DISCCART  372190.9  3769219.9  44.7
RE DISCCART  372215.9  3769219.9  44.46
RE DISCCART  372240.9  3769219.9  44.02
RE DISCCART  372265.9  3769219.9  43.78
RE DISCCART  372290.9  3769219.9  43.26
RE DISCCART  372315.9  3769219.9  43.14
RE DISCCART  372340.9  3769219.9  42.74
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RE DISCCART  372365.9  3769219.9  42.61
RE DISCCART  371340.9  3769244.9  57.35
RE DISCCART  371365.9  3769244.9  57.1
RE DISCCART  371390.9  3769244.9  56.6
RE DISCCART  371415.9  3769244.9  56.2
RE DISCCART  371440.9  3769244.9  55.8
RE DISCCART  371465.9  3769244.9  55.45
RE DISCCART  371490.9  3769244.9  55
RE DISCCART  371515.9  3769244.9  54.7
RE DISCCART  371540.9  3769244.9  54.3
RE DISCCART  371565.9  3769244.9  54
RE DISCCART  371590.9  3769244.9  53.6
RE DISCCART  371615.9  3769244.9  53.3
RE DISCCART  371640.9  3769244.9  52.85
RE DISCCART  371665.9  3769244.9  52.6
RE DISCCART  371690.9  3769244.9  52.1
** RCPDESCR  Elev 40ft
RE DISCCART  371715.9  3769244.9  51.95
RE DISCCART  371740.9  3769244.9  51.45
RE DISCCART  371765.9  3769244.9  51.1
RE DISCCART  371790.9  3769244.9  50.7
RE DISCCART  371815.9  3769244.9  50.45
RE DISCCART  371840.9  3769244.9  50.03
RE DISCCART  371865.9  3769244.9  49.8
RE DISCCART  371890.9  3769244.9  49.45
RE DISCCART  371915.9  3769244.9  49.1
RE DISCCART  371940.9  3769244.9  48.63
RE DISCCART  371965.9  3769244.9  48.35
RE DISCCART  371990.9  3769244.9  47.85
RE DISCCART  372015.9  3769244.9  47.48
RE DISCCART  372040.9  3769244.9  46.95
RE DISCCART  372065.9  3769244.9  46.6
RE DISCCART  372090.9  3769244.9  46.2
RE DISCCART  372115.9  3769244.9  45.95
RE DISCCART  372140.9  3769244.9  45.5
RE DISCCART  372165.9  3769244.9  45.25
RE DISCCART  372190.9  3769244.9  44.85
RE DISCCART  372215.9  3769244.9  44.6
RE DISCCART  372240.9  3769244.9  44.13
RE DISCCART  372265.9  3769244.9  43.9
RE DISCCART  372290.9  3769244.9  43.53
RE DISCCART  372315.9  3769244.9  43.33
RE DISCCART  372340.9  3769244.9  43
RE DISCCART  372365.9  3769244.9  42.8
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RE DISCCART  371340.9  3769269.9  57.25
RE DISCCART  371365.9  3769269.9  57.03
RE DISCCART  371390.9  3769269.9  56.53
RE DISCCART  371415.9  3769269.9  56.31
RE DISCCART  371440.9  3769269.9  55.73
RE DISCCART  371465.9  3769269.9  55.5
RE DISCCART  371490.9  3769269.9  55.03
RE DISCCART  371515.9  3769269.9  54.81
RE DISCCART  371540.9  3769269.9  54.24
RE DISCCART  371565.9  3769269.9  54.11
RE DISCCART  371590.9  3769269.9  53.53
RE DISCCART  371615.9  3769269.9  53.35
RE DISCCART  371640.9  3769269.9  52.76
RE DISCCART  371665.9  3769269.9  52.61
RE DISCCART  371690.9  3769269.9  52.2
RE DISCCART  371715.9  3769269.9  51.96
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RE DISCCART  371790.9  3769369.9  50.92
** RCPDESCR  Elev 30ft
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RE DISCCART  371840.9  3769369.9  50.23
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RE DISCCART  372040.9  3769369.9  47.23
RE DISCCART  372065.9  3769369.9  46.96
** RCPDESCR  Elev 30ft
RE DISCCART  372090.9  3769369.9  46.53
** RCPDESCR  Elev 30ft
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RE DISCCART  372240.9  3769569.9  45.04
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RE DISCCART  372290.9  3769569.9  44.54
RE DISCCART  372315.9  3769569.9  44.47
RE DISCCART  372340.9  3769569.9  44.04
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RE DISCCART  371615.9  3769594.9  54.38
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RE DISCCART  371840.9  3769594.9  50.95
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RE DISCCART  372090.9  3769594.9  47.13
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RE DISCCART  372140.9  3769594.9  46.47
RE DISCCART  372165.9  3769594.9  46.15
RE DISCCART  372190.9  3769594.9  45.73
RE DISCCART  372215.9  3769594.9  45.5
RE DISCCART  372240.9  3769594.9  45.3
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RE DISCCART  372315.9  3769594.9  44.6
RE DISCCART  372340.9  3769594.9  44.3
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** RCPDESCR  Elev 30ft
RE DISCCART  372390.9  3769194.9  42.2
** RCPDESCR  Elev 30ft
RE DISCCART  372415.9  3769194.9  41.98
** RCPDESCR  Elev 30ft
RE DISCCART  372324.64  3768512.49  39.91
** RCPDESCR  1536 SRobertson
RE DISCCART  372240.64  3768308.43  39.09
** RCPDESCR  1653 SRobertson
RE DISCCART  373073.12  3769249.93  38.1
** RCPDESCR  1056 SLaCienega
RE DISCCART  370888.15  3768916.91  72.32
** RCPDESCR  9717 WPico
RE DISCCART  373073.79  3769299.83  38.31
** RCPDESCR  1039 SLaCienega
RE DISCCART  373076.32  3768939.33  36.7
** RCPDESCR  1210 SLaCienega
RE DISCCART  372601.4  3768361.23  34.02
** RCPDESCR  1601 SBedford
RE DISCCART  372301.83  3768327.57  38.29
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 ** RCPDESCR  1641 Preuss
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 ** RCPDESCR  9233 Airdrome
 RE DISCCART  372389.24  3769329.03  42.98
 ** RCPDESCR  1030 SRobertson
 RE DISCCART  371296.73  3768889.14  58.88
 ** RCPDESCR  1419 SBeverly
 RE DISCCART  372959.98  3768868.81  36.65
 ** RCPDESCR  1241 SCorning
 ** BOUNDARY
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 RE DISCCART  371794.09  3768976.83  50.29
 RE DISCCART  371794.52  3769001.83  50.2
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 RE DISCCART  371769.63  3769008.46  50.7
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 RE DISCCART  371736.03  3768984.05  51.1
 RE DISCCART  371735.92  3768977.86  51.11
 RE FINISHED

 ME STARTING
 ME INPUTFIL  "I:\Project\9000s\9195\Air Modeling\WESTLA.ASC"
 ME ANEMHGHT  10  METERS
 ME SURFDATA  52158  1981
 ME UAIRDATA  91919  1981
 ME STARTEND  1981  01  01  1  1981  12  31  24
 ME FINISHED

 OU STARTING
 OU PLOTFILE  ANNUAL  1  "B:\Air Modeling\HHRA\9195_tower.PLT"
 OU PLOTFILE  ANNUAL  2  "B:\Air Modeling\HHRA\9195_diesel.PLT"
 OU FINISHED

 ** PROJECTN  0 104 7 -177 0 0.9996 500000 0
 ** OUTFILE  "B:\Air Modeling\HHRA\9195_diesel_tower.LST"
 ** RAWFILE  "B:\Air Modeling\HHRA\9195_diesel_tower.RAW"
 ** RAWFMT  2
 ** TERRFILE  C:\DOCUME~1\CKELLY\MYDOCU~1\BREITB~1\DEM\BEVHILLS.DEM 2 4 1 11 10 361469 3762976 361672 3776837 373201
3776675 373014 3762814
```

```
** HILLBOUN  370775.8 3768252.9 373096.4 3769866.5

** BUILDING BLD  0  0  50  13.7  15
** BUILDING IDN  SUPBLD
** BUILDING NAM  Support Building
** BUILDING CRN  371787.19  3769008.15
** BUILDING CRN  371742.36  3769008.94
** BUILDING CRN  371736.47  3769009.05
** BUILDING CRN  371736.3  3768999.06
** BUILDING CRN  371736.24  3768995.73
** BUILDING CRN  371742.12  3768995.62
** BUILDING CRN  371742.18  3768998.95
** BUILDING CRN  371787.02  3768998.16
** BUILDING CRN  371787.0  3768997.17
** BUILDING CRN  371791.22  3768997.09
** BUILDING CRN  371794.39  3768994.48
** BUILDING CRN  371794.44  3768997.03
** BUILDING CRN  371794.46  3768998.03
** BUILDING CRN  371794.63  3769008.02
** BUILDING CRN  371787.19  3769008.15
** BUILDING BLD  0  0  50  6.1  7
** BUILDING IDN  MHBLD
** BUILDING NAM  Mud House
** BUILDING CRN  371791.22  3768997.09
** BUILDING CRN  371790.96  3768982.44
** BUILDING CRN  371785.19  3768982.54
** BUILDING CRN  371785.09  3768976.99
** BUILDING CRN  371792.71  3768976.83
** BUILDING CRN  371792.92  3768995.7
** BUILDING CRN  371791.22  3768997.09
** BUILDING BLD  0  0  50  39  5
** BUILDING IDN  Tower
** BUILDING NAM  Drilling Tower
** BUILDING CRN  371768.4  3768981.6
** BUILDING CRN  371758.3  3768981.78
** BUILDING CRN  371758.48  3768991.76
** BUILDING CRN  371768.58  3768991.59
** BUILDING CRN  371768.4  3768981.6
** BUILDING BLD  0  0  51  7.62  12
** BUILDING IDN  BLD1
** BUILDING NAM  Outer Wall
** BUILDING CRN  371737.6  3768995.73
** BUILDING CRN  371737.5  3768978.3
** BUILDING CRN  371739.0  3768976.61
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 ** BUILDING CRN  371790.79  3768975.6
 ** BUILDING CRN  371792.71  3768976.83
 ** BUILDING CRN  371792.92  3768995.7
 ** BUILDING CRN  371794.3  3768994.6
 ** BUILDING CRN  371794.09  3768976.83
 ** BUILDING CRN  371791.46  3768974.11
 ** BUILDING CRN  371738.65  3768975.04
 ** BUILDING CRN  371735.92  3768977.86
 ** BUILDING CRN  371736.18  3768995.73

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                    ***
07/07/05
                                    ***                                                          ***
12:40:24
 **MODELOPTs:
PAGE   1
 CONC                     URBAN ELEV
HE>ZI

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
 - - -
```

```
            4. Calms Processing Routine.
            5. Not Use Missing Data Processing Routine.
            6. Default Wind Profile Exponents.
            7. Default Vertical Potential Temperature Gradients.
            HE>ZI  - Adjusts Vertical Term for cases when HE > ZI,
                     which may occur for receptors below source base elevation.

 **Model Accepts Receptors on ELEV Terrain.

 **Model Assumes No FLAGPOLE Receptor Heights.

 **Model Calculates ANNUAL Averages Only

 **This Run Includes:     2 Source(s);      3 Source Group(s); and    1790 Receptor(s)

 **The Model Assumes A Pollutant Type of:  OTHER

 **Model Set To Continue RUNning After the Setup Testing.

 **Output Options Selected:
         Model Outputs Tables of ANNUAL Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and Missing Hours

 **Misc. Inputs:  Anem. Hgt. (m) =    10.00 ;    Decay Coef. =       0.0000 ;    Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC                              ;  Emission Rate Unit Factor =
0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =     1.3 MB of RAM.

 **Input Runstream File:          B:\AIR MODELING\HHRA\9195_DIESEL_TOWER.DAT
 **Output Print File:             B:\AIR MODELING\HHRA\9195_DIESEL_TOWER.LST
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05
                                    ***                                                               ***
12:40:24
 **MODELOPTs:
PAGE   2
 CONC                    URBAN ELEV
HE>ZI
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
SRC1	0	0.10000E+01	371763.4	3768986.5	50.0	39.00	293.00	0.60	8.00	YES	

1 *** ISCST3 - VERSION 02035 *** *** BreitBurn Drill Site *** 07/07/05 *** *** 12:40:24

**MODELOPTs:

PAGE 3

CONC URBAN ELEV HE>ZI

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	EMISSION RATE SCALAR VARY BY
SRC2	0	0.10000E+01	371770.7	3768998.2	50.0	9.14	0.71	1.13	

1 *** ISCST3 - VERSION 02035 *** *** BreitBurn Drill Site *** 07/07/05 *** *** 12:40:24

**MODELOPTs:

PAGE 4

CONC URBAN ELEV HE>ZI

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	SRC1 , SRC2 ,
1	SRC1 ,
2	SRC2 ,

**MODELOPTs:

CONC URBAN ELEV HE>ZI

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: SRC1

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	39.0,	11.5,	0	2	39.0,	12.8,	0	3	39.0,	13.7,	0	4	39.0,	14.1,	0	5	39.0,	14.2,	0	6	39.0,	13.8,	0
7	39.0,	12.9,	0	8	39.0,	11.7,	0	9	39.0,	10.2,	0	10	39.0,	11.4,	0	11	39.0,	12.7,	0	12	39.0,	13.6,	0
13	39.0,	14.1,	0	14	39.0,	14.2,	0	15	39.0,	13.8,	0	16	39.0,	13.0,	0	17	39.0,	11.8,	0	18	39.0,	10.3,	0
19	39.0,	11.5,	0	20	39.0,	12.8,	0	21	39.0,	13.7,	0	22	39.0,	14.1,	0	23	39.0,	14.2,	0	24	39.0,	13.8,	0
25	39.0,	12.9,	0	26	39.0,	11.7,	0	27	39.0,	10.2,	0	28	39.0,	11.4,	0	29	39.0,	12.7,	0	30	39.0,	13.6,	0
31	39.0,	14.1,	0	32	39.0,	14.2,	0	33	39.0,	13.8,	0	34	39.0,	13.0,	0	35	39.0,	11.8,	0	36	39.0,	10.3,	0

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(371340.9,	3768570.0,	60.5,	0.0);	(371365.9,	3768570.0,	59.5,	0.0);
(371390.9,	3768570.0,	57.3,	0.0);	(371415.9,	3768570.0,	56.5,	0.0);
(371440.9,	3768570.0,	55.1,	0.0);	(371465.9,	3768570.0,	54.6,	0.0);
(371490.9,	3768570.0,	54.2,	0.0);	(371515.9,	3768570.0,	54.0,	0.0);
(371540.9,	3768570.0,	53.4,	0.0);	(371565.9,	3768570.0,	53.2,	0.0);
(371590.9,	3768570.0,	52.5,	0.0);	(371615.9,	3768570.0,	52.3,	0.0);
(371640.9,	3768570.0,	51.7,	0.0);	(371665.9,	3768570.0,	51.6,	0.0);
(371690.9,	3768570.0,	51.0,	0.0);	(371715.9,	3768570.0,	50.8,	0.0);
(371740.9,	3768570.0,	50.4,	0.0);	(371765.9,	3768570.0,	50.1,	0.0);
(371790.9,	3768570.0,	49.7,	0.0);	(371815.9,	3768570.0,	49.6,	0.0);
(371840.9,	3768570.0,	49.2,	0.0);	(371865.9,	3768570.0,	49.0,	0.0);
(371890.9,	3768570.0,	48.4,	0.0);	(371915.9,	3768570.0,	48.1,	0.0);
(371940.9,	3768570.0,	47.2,	0.0);	(371965.9,	3768570.0,	46.9,	0.0);
(371990.9,	3768570.0,	46.0,	0.0);	(372015.9,	3768570.0,	45.7,	0.0);
(372040.9,	3768570.0,	45.0,	0.0);	(372065.9,	3768570.0,	44.8,	0.0);
(372090.9,	3768570.0,	44.2,	0.0);	(372115.9,	3768570.0,	43.9,	0.0);
(372140.9,	3768570.0,	43.2,	0.0);	(372165.9,	3768570.0,	42.9,	0.0);
(372190.9,	3768570.0,	42.2,	0.0);	(372215.9,	3768570.0,	42.0,	0.0);
(372240.9,	3768570.0,	41.4,	0.0);	(372265.9,	3768570.0,	41.1,	0.0);
(372290.9,	3768570.0,	40.5,	0.0);	(372315.9,	3768570.0,	40.3,	0.0);
(372340.9,	3768570.0,	39.7,	0.0);	(372365.9,	3768570.0,	39.5,	0.0);
(371340.9,	3768595.0,	60.1,	0.0);	(371365.9,	3768595.0,	58.9,	0.0);
(371390.9,	3768595.0,	57.2,	0.0);	(371415.9,	3768595.0,	56.2,	0.0);
(371440.9,	3768595.0,	55.2,	0.0);	(371465.9,	3768595.0,	54.6,	0.0);
(371490.9,	3768595.0,	54.2,	0.0);	(371515.9,	3768595.0,	53.9,	0.0);
(371540.9,	3768595.0,	53.5,	0.0);	(371565.9,	3768595.0,	53.1,	0.0);
(371590.9,	3768595.0,	52.7,	0.0);	(371615.9,	3768595.0,	52.4,	0.0);
(371640.9,	3768595.0,	52.0,	0.0);	(371665.9,	3768595.0,	51.8,	0.0);
(371690.9,	3768595.0,	51.1,	0.0);	(371715.9,	3768595.0,	51.0,	0.0);

```
     ( 371740.9, 3768595.0,      50.5,       0.0);          ( 371765.9, 3768595.0,      50.3,       0.0);
     ( 371790.9, 3768595.0,      50.0,       0.0);          ( 371815.9, 3768595.0,      49.8,       0.0);
     ( 371840.9, 3768595.0,      49.3,       0.0);          ( 371865.9, 3768595.0,      49.1,       0.0);
     ( 371890.9, 3768595.0,      48.6,       0.0);          ( 371915.9, 3768595.0,      48.3,       0.0);
     ( 371940.9, 3768595.0,      47.6,       0.0);          ( 371965.9, 3768595.0,      47.1,       0.0);
     ( 371990.9, 3768595.0,      46.2,       0.0);          ( 372015.9, 3768595.0,      45.8,       0.0);
     ( 372040.9, 3768595.0,      45.1,       0.0);          ( 372065.9, 3768595.0,      44.9,       0.0);
     ( 372090.9, 3768595.0,      44.4,       0.0);          ( 372115.9, 3768595.0,      44.0,       0.0);
     ( 372140.9, 3768595.0,      43.5,       0.0);          ( 372165.9, 3768595.0,      43.1,       0.0);
     ( 372190.9, 3768595.0,      42.5,       0.0);          ( 372215.9, 3768595.0,      42.2,       0.0);
     ( 372240.9, 3768595.0,      41.6,       0.0);          ( 372265.9, 3768595.0,      41.3,       0.0);
     ( 372290.9, 3768595.0,      40.7,       0.0);          ( 372315.9, 3768595.0,      40.3,       0.0);
     ( 372340.9, 3768595.0,      39.8,       0.0);          ( 372365.9, 3768595.0,      39.5,       0.0);
     ( 371340.9, 3768620.0,      59.6,       0.0);          ( 371365.9, 3768620.0,      58.7,       0.0);
     ( 371390.9, 3768620.0,      56.8,       0.0);          ( 371415.9, 3768620.0,      56.1,       0.0);
     ( 371440.9, 3768620.0,      54.9,       0.0);          ( 371465.9, 3768620.0,      54.6,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                              ***
07/07/05
                                    ***                                                                   ***
12:40:24
 **MODELOPTs:
PAGE   7
 CONC                    URBAN ELEV
HE>ZI


                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                    (X-COORD, Y-COORD, ZELEV, ZFLAG)
                                              (METERS)

     ( 371490.9, 3768620.0,      54.0,       0.0);          ( 371515.9, 3768620.0,      53.8,       0.0);
     ( 371540.9, 3768620.0,      53.4,       0.0);          ( 371565.9, 3768620.0,      53.1,       0.0);
     ( 371590.9, 3768620.0,      52.7,       0.0);          ( 371615.9, 3768620.0,      52.5,       0.0);
     ( 371640.9, 3768620.0,      52.0,       0.0);          ( 371665.9, 3768620.0,      51.6,       0.0);
     ( 371690.9, 3768620.0,      51.2,       0.0);          ( 371715.9, 3768620.0,      51.0,       0.0);
     ( 371740.9, 3768620.0,      50.5,       0.0);          ( 371765.9, 3768620.0,      50.4,       0.0);
     ( 371790.9, 3768620.0,      50.0,       0.0);          ( 371815.9, 3768620.0,      49.8,       0.0);
     ( 371840.9, 3768620.0,      49.4,       0.0);          ( 371865.9, 3768620.0,      49.1,       0.0);
     ( 371890.9, 3768620.0,      48.7,       0.0);          ( 371915.9, 3768620.0,      48.4,       0.0);
     ( 371940.9, 3768620.0,      47.5,       0.0);          ( 371965.9, 3768620.0,      47.1,       0.0);
     ( 371990.9, 3768620.0,      46.2,       0.0);          ( 372015.9, 3768620.0,      45.8,       0.0);
     ( 372040.9, 3768620.0,      45.2,       0.0);          ( 372065.9, 3768620.0,      45.1,       0.0);
     ( 372090.9, 3768620.0,      44.5,       0.0);          ( 372115.9, 3768620.0,      44.1,       0.0);
     ( 372140.9, 3768620.0,      43.5,       0.0);          ( 372165.9, 3768620.0,      43.2,       0.0);
```

```
    ( 372190.9, 3768620.0,      42.5,       0.0);         ( 372215.9, 3768620.0,      42.3,       0.0);
    ( 372240.9, 3768620.0,      41.7,       0.0);         ( 372265.9, 3768620.0,      41.4,       0.0);
    ( 372290.9, 3768620.0,      40.7,       0.0);         ( 372315.9, 3768620.0,      40.5,       0.0);
    ( 372340.9, 3768620.0,      39.9,       0.0);         ( 372365.9, 3768620.0,      39.6,       0.0);
    ( 371340.9, 3768645.0,      59.2,       0.0);         ( 371365.9, 3768645.0,      58.3,       0.0);
    ( 371390.9, 3768645.0,      56.8,       0.0);         ( 371415.9, 3768645.0,      55.8,       0.0);
    ( 371440.9, 3768645.0,      54.8,       0.0);         ( 371465.9, 3768645.0,      54.5,       0.0);
    ( 371490.9, 3768645.0,      54.1,       0.0);         ( 371515.9, 3768645.0,      53.8,       0.0);
    ( 371540.9, 3768645.0,      53.5,       0.0);         ( 371565.9, 3768645.0,      53.2,       0.0);
    ( 371590.9, 3768645.0,      52.8,       0.0);         ( 371615.9, 3768645.0,      52.6,       0.0);
    ( 371640.9, 3768645.0,      52.0,       0.0);         ( 371665.9, 3768645.0,      51.7,       0.0);

    ( 371690.9, 3768645.0,      51.3,       0.0);         ( 371715.9, 3768645.0,      51.1,       0.0);
    ( 371740.9, 3768645.0,      50.7,       0.0);         ( 371765.9, 3768645.0,      50.5,       0.0);
    ( 371790.9, 3768645.0,      50.1,       0.0);         ( 371815.9, 3768645.0,      49.9,       0.0);
    ( 371840.9, 3768645.0,      49.5,       0.0);         ( 371865.9, 3768645.0,      49.2,       0.0);
    ( 371890.9, 3768645.0,      48.8,       0.0);         ( 371915.9, 3768645.0,      48.5,       0.0);
    ( 371940.9, 3768645.0,      47.8,       0.0);         ( 371965.9, 3768645.0,      47.4,       0.0);
    ( 371990.9, 3768645.0,      46.6,       0.0);         ( 372015.9, 3768645.0,      46.2,       0.0);
    ( 372040.9, 3768645.0,      45.8,       0.0);         ( 372065.9, 3768645.0,      45.3,       0.0);
    ( 372090.9, 3768645.0,      44.7,       0.0);         ( 372115.9, 3768645.0,      44.3,       0.0);
    ( 372140.9, 3768645.0,      43.8,       0.0);         ( 372165.9, 3768645.0,      43.3,       0.0);
    ( 372190.9, 3768645.0,      42.8,       0.0);         ( 372215.9, 3768645.0,      42.5,       0.0);
    ( 372240.9, 3768645.0,      41.9,       0.0);         ( 372265.9, 3768645.0,      41.6,       0.0);
    ( 372290.9, 3768645.0,      41.0,       0.0);         ( 372315.9, 3768645.0,      40.6,       0.0);
    ( 372340.9, 3768645.0,      40.1,       0.0);         ( 372365.9, 3768645.0,      39.8,       0.0);
    ( 371340.9, 3768670.0,      58.7,       0.0);         ( 371365.9, 3768670.0,      58.1,       0.0);
    ( 371390.9, 3768670.0,      56.6,       0.0);         ( 371415.9, 3768670.0,      55.9,       0.0);
    ( 371440.9, 3768670.0,      54.8,       0.0);         ( 371465.9, 3768670.0,      54.6,       0.0);
    ( 371490.9, 3768670.0,      54.0,       0.0);         ( 371515.9, 3768670.0,      54.0,       0.0);
    ( 371540.9, 3768670.0,      53.5,       0.0);         ( 371565.9, 3768670.0,      53.3,       0.0);
    ( 371590.9, 3768670.0,      52.9,       0.0);         ( 371615.9, 3768670.0,      52.5,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05
                                    ***                                                               ***
12:40:24
 **MODELOPTs:
PAGE   8
 CONC                    URBAN ELEV
HE>ZI


                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                          (X-COORD, Y-COORD, ZELEV, ZFLAG)
```

(METERS)

(371640.9,	3768670.0,	52.0,	0.0);	(371665.9,	3768670.0,	51.8,	0.0);
(371690.9,	3768670.0,	51.4,	0.0);	(371715.9,	3768670.0,	51.2,	0.0);
(371740.9,	3768670.0,	50.7,	0.0);	(371765.9,	3768670.0,	50.5,	0.0);
(371790.9,	3768670.0,	50.0,	0.0);	(371815.9,	3768670.0,	50.0,	0.0);
(371840.9,	3768670.0,	49.5,	0.0);	(371865.9,	3768670.0,	49.3,	0.0);
(371890.9,	3768670.0,	48.8,	0.0);	(371915.9,	3768670.0,	48.6,	0.0);
(371940.9,	3768670.0,	47.9,	0.0);	(371965.9,	3768670.0,	47.6,	0.0);
(371990.9,	3768670.0,	46.7,	0.0);	(372015.9,	3768670.0,	46.4,	0.0);
(372040.9,	3768670.0,	45.7,	0.0);	(372065.9,	3768670.0,	45.4,	0.0);
(372090.9,	3768670.0,	44.8,	0.0);	(372115.9,	3768670.0,	44.4,	0.0);
(372140.9,	3768670.0,	43.8,	0.0);	(372165.9,	3768670.0,	43.5,	0.0);
(372190.9,	3768670.0,	42.8,	0.0);	(372215.9,	3768670.0,	42.6,	0.0);
(372240.9,	3768670.0,	42.0,	0.0);	(372265.9,	3768670.0,	41.7,	0.0);
(372290.9,	3768670.0,	41.0,	0.0);	(372315.9,	3768670.0,	40.8,	0.0);
(372340.9,	3768670.0,	40.2,	0.0);	(372365.9,	3768670.0,	40.0,	0.0);
(371340.9,	3768695.0,	58.5,	0.0);	(371365.9,	3768695.0,	57.7,	0.0);
(371390.9,	3768695.0,	56.6,	0.0);	(371415.9,	3768695.0,	56.0,	0.0);
(371440.9,	3768695.0,	55.2,	0.0);	(371465.9,	3768695.0,	54.8,	0.0);
(371490.9,	3768695.0,	54.3,	0.0);	(371515.9,	3768695.0,	54.0,	0.0);
(371540.9,	3768695.0,	53.6,	0.0);	(371565.9,	3768695.0,	53.3,	0.0);
(371590.9,	3768695.0,	52.8,	0.0);	(371615.9,	3768695.0,	52.6,	0.0);
(371640.9,	3768695.0,	52.1,	0.0);	(371665.9,	3768695.0,	51.8,	0.0);
(371690.9,	3768695.0,	51.5,	0.0);	(371715.9,	3768695.0,	51.1,	0.0);
(371740.9,	3768695.0,	50.8,	0.0);	(371765.9,	3768695.0,	50.6,	0.0);
(371790.9,	3768695.0,	50.2,	0.0);	(371815.9,	3768695.0,	50.0,	0.0);
(371840.9,	3768695.0,	49.6,	0.0);	(371865.9,	3768695.0,	49.4,	0.0);
(371890.9,	3768695.0,	49.0,	0.0);	(371915.9,	3768695.0,	48.8,	0.0);
(371940.9,	3768695.0,	48.1,	0.0);	(371965.9,	3768695.0,	47.7,	0.0);
(371990.9,	3768695.0,	47.0,	0.0);	(372015.9,	3768695.0,	46.6,	0.0);
(372040.9,	3768695.0,	46.0,	0.0);	(372065.9,	3768695.0,	45.6,	0.0);
(372090.9,	3768695.0,	45.0,	0.0);	(372115.9,	3768695.0,	44.6,	0.0);
(372140.9,	3768695.0,	44.0,	0.0);	(372165.9,	3768695.0,	43.6,	0.0);
(372190.9,	3768695.0,	43.1,	0.0);	(372215.9,	3768695.0,	42.8,	0.0);
(372240.9,	3768695.0,	42.3,	0.0);	(372265.9,	3768695.0,	41.9,	0.0);
(372290.9,	3768695.0,	41.3,	0.0);	(372315.9,	3768695.0,	41.0,	0.0);
(372340.9,	3768695.0,	40.5,	0.0);	(372365.9,	3768695.0,	40.1,	0.0);
(371340.9,	3768720.0,	58.0,	0.0);	(371365.9,	3768720.0,	57.6,	0.0);
(371390.9,	3768720.0,	56.5,	0.0);	(371415.9,	3768720.0,	56.1,	0.0);
(371440.9,	3768720.0,	55.2,	0.0);	(371465.9,	3768720.0,	54.9,	0.0);
(371490.9,	3768720.0,	54.3,	0.0);	(371515.9,	3768720.0,	54.1,	0.0);
(371540.9,	3768720.0,	53.5,	0.0);	(371565.9,	3768720.0,	53.3,	0.0);

**MODELOPTs:
PAGE 9
CONC URBAN ELEV
HE>ZI

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(	371590.9,	3768720.0,	52.8,	0.0);	(371615.9,	3768720.0,	52.6,	0.0);
(	371640.9,	3768720.0,	52.2,	0.0);	(371665.9,	3768720.0,	51.9,	0.0);
(	371690.9,	3768720.0,	51.4,	0.0);	(371715.9,	3768720.0,	51.2,	0.0);
(	371740.9,	3768720.0,	50.7,	0.0);	(371765.9,	3768720.0,	50.6,	0.0);
(	371790.9,	3768720.0,	50.2,	0.0);	(371815.9,	3768720.0,	50.1,	0.0);
(	371840.9,	3768720.0,	49.7,	0.0);	(371865.9,	3768720.0,	49.5,	0.0);
(	371890.9,	3768720.0,	49.0,	0.0);	(371915.9,	3768720.0,	48.8,	0.0);
(	371940.9,	3768720.0,	48.1,	0.0);	(371965.9,	3768720.0,	47.8,	0.0);
(	371990.9,	3768720.0,	47.0,	0.0);	(372015.9,	3768720.0,	46.6,	0.0);
(	372040.9,	3768720.0,	46.0,	0.0);	(372065.9,	3768720.0,	45.6,	0.0);
(	372090.9,	3768720.0,	45.0,	0.0);	(372115.9,	3768720.0,	44.6,	0.0);
(	372140.9,	3768720.0,	44.0,	0.0);	(372165.9,	3768720.0,	43.6,	0.0);
(	372190.9,	3768720.0,	43.0,	0.0);	(372215.9,	3768720.0,	42.9,	0.0);
(	372240.9,	3768720.0,	42.2,	0.0);	(372265.9,	3768720.0,	42.0,	0.0);
(	372290.9,	3768720.0,	41.3,	0.0);	(372315.9,	3768720.0,	41.1,	0.0);
(	372340.9,	3768720.0,	40.5,	0.0);	(372365.9,	3768720.0,	40.3,	0.0);
(	371340.9,	3768745.0,	57.8,	0.0);	(371365.9,	3768745.0,	57.3,	0.0);
(	371390.9,	3768745.0,	56.5,	0.0);	(371415.9,	3768745.0,	56.1,	0.0);
(	371440.9,	3768745.0,	55.5,	0.0);	(371465.9,	3768745.0,	55.0,	0.0);
(	371490.9,	3768745.0,	54.5,	0.0);	(371515.9,	3768745.0,	54.1,	0.0);
(	371540.9,	3768745.0,	53.6,	0.0);	(371565.9,	3768745.0,	53.3,	0.0);
(	371590.9,	3768745.0,	53.0,	0.0);	(371615.9,	3768745.0,	52.6,	0.0);
(	371640.9,	3768745.0,	52.1,	0.0);	(371665.9,	3768745.0,	52.0,	0.0);
(	371690.9,	3768745.0,	51.5,	0.0);	(371715.9,	3768745.0,	51.2,	0.0);
(	371740.9,	3768745.0,	51.0,	0.0);	(371765.9,	3768745.0,	50.7,	0.0);
(	371790.9,	3768745.0,	50.3,	0.0);	(371815.9,	3768745.0,	50.1,	0.0);
(	371840.9,	3768745.0,	49.8,	0.0);	(371865.9,	3768745.0,	49.5,	0.0);
(	371890.9,	3768745.0,	49.1,	0.0);	(371915.9,	3768745.0,	48.8,	0.0);
(	371940.9,	3768745.0,	48.3,	0.0);	(371965.9,	3768745.0,	47.8,	0.0);

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    ( 371990.9, 3768745.0,      47.1,       0.0);          ( 372015.9, 3768745.0,      46.8,       0.0);
    ( 372040.9, 3768745.0,      46.1,       0.0);          ( 372065.9, 3768745.0,      45.8,       0.0);
    ( 372090.9, 3768745.0,      45.1,       0.0);          ( 372115.9, 3768745.0,      44.8,       0.0);
    ( 372140.9, 3768745.0,      44.1,       0.0);          ( 372165.9, 3768745.0,      43.8,       0.0);
    ( 372190.9, 3768745.0,      43.3,       0.0);          ( 372215.9, 3768745.0,      43.0,       0.0);
    ( 372240.9, 3768745.0,      42.5,       0.0);          ( 372265.9, 3768745.0,      42.1,       0.0);
    ( 372290.9, 3768745.0,      41.6,       0.0);          ( 372315.9, 3768745.0,      41.2,       0.0);
    ( 372340.9, 3768745.0,      40.6,       0.0);          ( 372365.9, 3768745.0,      40.4,       0.0);
    ( 371340.9, 3768770.0,      57.5,       0.0);          ( 371365.9, 3768770.0,      57.0,       0.0);
    ( 371390.9, 3768770.0,      56.2,       0.0);          ( 371415.9, 3768770.0,      56.0,       0.0);
    ( 371440.9, 3768770.0,      55.4,       0.0);          ( 371465.9, 3768770.0,      55.0,       0.0);
    ( 371490.9, 3768770.0,      54.4,       0.0);          ( 371515.9, 3768770.0,      54.1,       0.0);
    ( 371540.9, 3768770.0,      53.5,       0.0);          ( 371565.9, 3768770.0,      53.3,       0.0);
    ( 371590.9, 3768770.0,      52.9,       0.0);          ( 371615.9, 3768770.0,      52.6,       0.0);
    ( 371640.9, 3768770.0,      52.2,       0.0);          ( 371665.9, 3768770.0,      52.0,       0.0);
    ( 371690.9, 3768770.0,      51.5,       0.0);          ( 371715.9, 3768770.0,      51.3,       0.0);
    ( 371740.9, 3768770.0,      50.9,       0.0);          ( 371765.9, 3768770.0,      50.7,       0.0);
    ( 371790.9, 3768770.0,      50.4,       0.0);          ( 371815.9, 3768770.0,      50.1,       0.0);
    ( 371840.9, 3768770.0,      49.7,       0.0);          ( 371865.9, 3768770.0,      49.5,       0.0);
    ( 371890.9, 3768770.0,      49.0,       0.0);          ( 371915.9, 3768770.0,      48.9,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05
                                    ***                                                               ***
12:40:24
 **MODELOPTs:
PAGE  10
 CONC                    URBAN ELEV
HE>ZI


                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                          (X-COORD, Y-COORD, ZELEV, ZFLAG)
                                                    (METERS)

    ( 371940.9, 3768770.0,      48.2,       0.0);          ( 371965.9, 3768770.0,      47.9,       0.0);
    ( 371990.9, 3768770.0,      47.0,       0.0);          ( 372015.9, 3768770.0,      46.8,       0.0);
    ( 372040.9, 3768770.0,      46.0,       0.0);          ( 372065.9, 3768770.0,      45.8,       0.0);
    ( 372090.9, 3768770.0,      45.1,       0.0);          ( 372115.9, 3768770.0,      44.8,       0.0);
    ( 372140.9, 3768770.0,      44.0,       0.0);          ( 372165.9, 3768770.0,      43.8,       0.0);
    ( 372190.9, 3768770.0,      43.2,       0.0);          ( 372215.9, 3768770.0,      43.0,       0.0);
    ( 372240.9, 3768770.0,      42.4,       0.0);          ( 372265.9, 3768770.0,      42.1,       0.0);
    ( 372290.9, 3768770.0,      41.5,       0.0);          ( 372315.9, 3768770.0,      41.3,       0.0);
    ( 372340.9, 3768770.0,      40.7,       0.0);          ( 372365.9, 3768770.0,      40.5,       0.0);
    ( 371340.9, 3768795.0,      57.2,       0.0);          ( 371365.9, 3768795.0,      56.5,       0.0);
```

```
    ( 371390.9, 3768795.0,      56.0,       0.0);         ( 371415.9, 3768795.0,      55.6,       0.0);
    ( 371440.9, 3768795.0,      55.2,       0.0);         ( 371465.9, 3768795.0,      54.8,       0.0);
    ( 371490.9, 3768795.0,      54.4,       0.0);         ( 371515.9, 3768795.0,      54.1,       0.0);
    ( 371540.9, 3768795.0,      53.6,       0.0);         ( 371565.9, 3768795.0,      53.3,       0.0);
    ( 371590.9, 3768795.0,      53.0,       0.0);         ( 371615.9, 3768795.0,      52.6,       0.0);
    ( 371640.9, 3768795.0,      52.3,       0.0);         ( 371665.9, 3768795.0,      52.0,       0.0);
    ( 371690.9, 3768795.0,      51.6,       0.0);         ( 371715.9, 3768795.0,      51.3,       0.0);
    ( 371740.9, 3768795.0,      51.0,       0.0);         ( 371765.9, 3768795.0,      50.8,       0.0);
    ( 371790.9, 3768795.0,      50.5,       0.0);         ( 371815.9, 3768795.0,      50.1,       0.0);
    ( 371840.9, 3768795.0,      49.8,       0.0);         ( 371865.9, 3768795.0,      49.5,       0.0);
    ( 371890.9, 3768795.0,      49.1,       0.0);         ( 371915.9, 3768795.0,      48.8,       0.0);
    ( 371940.9, 3768795.0,      48.3,       0.0);         ( 371965.9, 3768795.0,      47.8,       0.0);
    ( 371990.9, 3768795.0,      47.2,       0.0);         ( 372015.9, 3768795.0,      46.8,       0.0);
    ( 372040.9, 3768795.0,      46.3,       0.0);         ( 372065.9, 3768795.0,      45.8,       0.0);
    ( 372090.9, 3768795.0,      45.3,       0.0);         ( 372115.9, 3768795.0,      44.8,       0.0);
    ( 372140.9, 3768795.0,      44.3,       0.0);         ( 372165.9, 3768795.0,      43.8,       0.0);
    ( 372190.9, 3768795.0,      43.3,       0.0);         ( 372215.9, 3768795.0,      43.0,       0.0);
    ( 372240.9, 3768795.0,      42.5,       0.0);         ( 372265.9, 3768795.0,      42.2,       0.0);
    ( 372290.9, 3768795.0,      41.7,       0.0);         ( 372315.9, 3768795.0,      41.4,       0.0);
    ( 372340.9, 3768795.0,      40.9,       0.0);         ( 372365.9, 3768795.0,      40.6,       0.0);
    ( 371340.9, 3768820.0,      56.7,       0.0);         ( 371365.9, 3768820.0,      56.1,       0.0);
    ( 371390.9, 3768820.0,      55.5,       0.0);         ( 371415.9, 3768820.0,      55.3,       0.0);
    ( 371440.9, 3768820.0,      54.9,       0.0);         ( 371465.9, 3768820.0,      54.7,       0.0);
    ( 371490.9, 3768820.0,      54.2,       0.0);         ( 371515.9, 3768820.0,      54.0,       0.0);
    ( 371540.9, 3768820.0,      53.5,       0.0);         ( 371565.9, 3768820.0,      53.3,       0.0);
    ( 371590.9, 3768820.0,      52.9,       0.0);         ( 371615.9, 3768820.0,      52.6,       0.0);
    ( 371640.9, 3768820.0,      52.2,       0.0);         ( 371665.9, 3768820.0,      52.0,       0.0);
    ( 371690.9, 3768820.0,      51.5,       0.0);         ( 371715.9, 3768820.0,      51.5,       0.0);
    ( 371740.9, 3768820.0,      51.0,       0.0);         ( 371765.9, 3768820.0,      50.8,       0.0);
    ( 371790.9, 3768820.0,      50.4,       0.0);         ( 371815.9, 3768820.0,      50.1,       0.0);
    ( 371840.9, 3768820.0,      49.7,       0.0);         ( 371865.9, 3768820.0,      49.5,       0.0);
    ( 371890.9, 3768820.0,      49.0,       0.0);         ( 371915.9, 3768820.0,      48.8,       0.0);
    ( 371940.9, 3768820.0,      48.2,       0.0);         ( 371965.9, 3768820.0,      47.9,       0.0);
    ( 371990.9, 3768820.0,      47.2,       0.0);         ( 372015.9, 3768820.0,      46.9,       0.0);
    ( 372040.9, 3768820.0,      46.2,       0.0);         ( 372065.9, 3768820.0,      45.9,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05
                                    ***                                                               ***
12:40:24
 **MODELOPTs:
PAGE  11
 CONC                    URBAN ELEV
HE>ZI
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(372090.9,	3768820.0,	45.2,	0.0);	(372115.9,	3768820.0,	44.9,	0.0);
(372140.9,	3768820.0,	44.2,	0.0);	(372165.9,	3768820.0,	43.9,	0.0);
(372190.9,	3768820.0,	43.2,	0.0);	(372215.9,	3768820.0,	43.0,	0.0);
(372240.9,	3768820.0,	42.5,	0.0);	(372265.9,	3768820.0,	42.3,	0.0);
(372290.9,	3768820.0,	41.7,	0.0);	(372315.9,	3768820.0,	41.5,	0.0);
(372340.9,	3768820.0,	40.9,	0.0);	(372365.9,	3768820.0,	40.6,	0.0);
(371340.9,	3768845.0,	56.5,	0.0);	(371365.9,	3768845.0,	55.7,	0.0);
(371390.9,	3768845.0,	54.8,	0.0);	(371415.9,	3768845.0,	54.7,	0.0);
(371440.9,	3768845.0,	54.6,	0.0);	(371465.9,	3768845.0,	54.4,	0.0);
(371490.9,	3768845.0,	54.1,	0.0);	(371515.9,	3768845.0,	54.0,	0.0);
(371540.9,	3768845.0,	53.6,	0.0);	(371565.9,	3768845.0,	53.3,	0.0);
(371590.9,	3768845.0,	53.0,	0.0);	(371615.9,	3768845.0,	52.7,	0.0);
(371640.9,	3768845.0,	52.2,	0.0);	(371665.9,	3768845.0,	52.0,	0.0);
(371690.9,	3768845.0,	51.6,	0.0);	(371715.9,	3768845.0,	51.3,	0.0);
(371740.9,	3768845.0,	51.0,	0.0);	(371765.9,	3768845.0,	50.7,	0.0);
(371790.9,	3768845.0,	50.3,	0.0);	(371815.9,	3768845.0,	50.1,	0.0);
(371840.9,	3768845.0,	49.7,	0.0);	(371865.9,	3768845.0,	49.5,	0.0);
(371890.9,	3768845.0,	49.1,	0.0);	(371915.9,	3768845.0,	48.8,	0.0);
(371940.9,	3768845.0,	48.3,	0.0);	(371965.9,	3768845.0,	47.8,	0.0);
(371990.9,	3768845.0,	47.2,	0.0);	(372015.9,	3768845.0,	46.8,	0.0);
(372040.9,	3768845.0,	46.3,	0.0);	(372065.9,	3768845.0,	45.8,	0.0);
(372090.9,	3768845.0,	45.3,	0.0);	(372115.9,	3768845.0,	44.8,	0.0);
(372140.9,	3768845.0,	44.3,	0.0);	(372165.9,	3768845.0,	43.8,	0.0);
(372190.9,	3768845.0,	43.3,	0.0);	(372215.9,	3768845.0,	43.0,	0.0);
(372240.9,	3768845.0,	42.6,	0.0);	(372265.9,	3768845.0,	42.3,	0.0);
(372290.9,	3768845.0,	41.8,	0.0);	(372315.9,	3768845.0,	41.5,	0.0);
(372340.9,	3768845.0,	41.1,	0.0);	(372365.9,	3768845.0,	40.8,	0.0);
(371340.9,	3768870.0,	56.3,	0.0);	(371365.9,	3768870.0,	55.7,	0.0);
(371390.9,	3768870.0,	54.7,	0.0);	(371415.9,	3768870.0,	54.5,	0.0);
(371440.9,	3768870.0,	54.2,	0.0);	(371465.9,	3768870.0,	54.2,	0.0);
(371490.9,	3768870.0,	54.0,	0.0);	(371515.9,	3768870.0,	54.0,	0.0);
(371540.9,	3768870.0,	53.5,	0.0);	(371565.9,	3768870.0,	53.5,	0.0);
(371590.9,	3768870.0,	53.0,	0.0);	(371615.9,	3768870.0,	52.8,	0.0);
(371640.9,	3768870.0,	52.2,	0.0);	(371665.9,	3768870.0,	52.1,	0.0);
(371690.9,	3768870.0,	51.5,	0.0);	(371715.9,	3768870.0,	51.4,	0.0);
(371740.9,	3768870.0,	51.0,	0.0);	(371765.9,	3768870.0,	50.7,	0.0);
(371790.9,	3768870.0,	50.2,	0.0);	(371815.9,	3768870.0,	50.1,	0.0);
(371840.9,	3768870.0,	49.7,	0.0);	(371865.9,	3768870.0,	49.5,	0.0);
(371890.9,	3768870.0,	49.0,	0.0);	(371915.9,	3768870.0,	48.8,	0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(	371940.9,	3768870.0,	48.2,	0.0);	(371965.9,	3768870.0,	47.9,	0.0);
(	371990.9,	3768870.0,	47.0,	0.0);	(372015.9,	3768870.0,	46.8,	0.0);
(	372040.9,	3768870.0,	46.2,	0.0);	(372065.9,	3768870.0,	45.9,	0.0);
(	372090.9,	3768870.0,	45.2,	0.0);	(372115.9,	3768870.0,	44.9,	0.0);
(	372140.9,	3768870.0,	44.2,	0.0);	(372165.9,	3768870.0,	43.9,	0.0);
(	372190.9,	3768870.0,	43.2,	0.0);	(372215.9,	3768870.0,	43.0,	0.0);
(	372240.9,	3768870.0,	42.5,	0.0);	(372265.9,	3768870.0,	42.3,	0.0);
(	372290.9,	3768870.0,	41.8,	0.0);	(372315.9,	3768870.0,	41.6,	0.0);
(	372340.9,	3768870.0,	41.2,	0.0);	(372365.9,	3768870.0,	41.0,	0.0);
(	371340.9,	3768895.0,	56.8,	0.0);	(371365.9,	3768895.0,	55.9,	0.0);
(	371390.9,	3768895.0,	54.9,	0.0);	(371415.9,	3768895.0,	54.8,	0.0);
(	371440.9,	3768895.0,	54.5,	0.0);	(371465.9,	3768895.0,	54.5,	0.0);
(	371490.9,	3768895.0,	54.2,	0.0);	(371515.9,	3768895.0,	54.2,	0.0);
(	371540.9,	3768895.0,	53.8,	0.0);	(371565.9,	3768895.0,	53.5,	0.0);
(	371590.9,	3768895.0,	53.1,	0.0);	(371615.9,	3768895.0,	52.8,	0.0);
(	371640.9,	3768895.0,	52.3,	0.0);	(371665.9,	3768895.0,	52.1,	0.0);
(	371690.9,	3768895.0,	51.6,	0.0);	(371715.9,	3768895.0,	51.3,	0.0);
(	371740.9,	3768895.0,	51.0,	0.0);	(371765.9,	3768895.0,	50.7,	0.0);
(	371790.9,	3768895.0,	50.3,	0.0);	(371815.9,	3768895.0,	50.0,	0.0);
(	371840.9,	3768895.0,	49.6,	0.0);	(371865.9,	3768895.0,	49.5,	0.0);
(	371890.9,	3768895.0,	49.1,	0.0);	(371915.9,	3768895.0,	48.8,	0.0);
(	371940.9,	3768895.0,	48.3,	0.0);	(371965.9,	3768895.0,	47.8,	0.0);
(	371990.9,	3768895.0,	47.1,	0.0);	(372015.9,	3768895.0,	46.8,	0.0);
(	372040.9,	3768895.0,	46.1,	0.0);	(372065.9,	3768895.0,	45.8,	0.0);
(	372090.9,	3768895.0,	45.3,	0.0);	(372115.9,	3768895.0,	44.8,	0.0);
(	372140.9,	3768895.0,	44.3,	0.0);	(372165.9,	3768895.0,	43.8,	0.0);
(	372190.9,	3768895.0,	43.3,	0.0);	(372215.9,	3768895.0,	43.0,	0.0);
(	372240.9,	3768895.0,	42.5,	0.0);	(372265.9,	3768895.0,	42.3,	0.0);
(	372290.9,	3768895.0,	42.0,	0.0);	(372315.9,	3768895.0,	41.6,	0.0);
(	372340.9,	3768895.0,	41.3,	0.0);	(372365.9,	3768895.0,	41.0,	0.0);

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     ( 371340.9, 3768920.0,      56.8,       0.0);          ( 371365.9, 3768920.0,      56.2,       0.0);
     ( 371390.9, 3768920.0,      55.2,       0.0);          ( 371415.9, 3768920.0,      55.1,       0.0);
     ( 371440.9, 3768920.0,      54.7,       0.0);          ( 371465.9, 3768920.0,      54.6,       0.0);
     ( 371490.9, 3768920.0,      54.5,       0.0);          ( 371515.9, 3768920.0,      54.3,       0.0);
     ( 371540.9, 3768920.0,      53.8,       0.0);          ( 371565.9, 3768920.0,      53.6,       0.0);
     ( 371590.9, 3768920.0,      53.0,       0.0);          ( 371615.9, 3768920.0,      52.8,       0.0);
     ( 371640.9, 3768920.0,      52.4,       0.0);          ( 371665.9, 3768920.0,      52.1,       0.0);
     ( 371690.9, 3768920.0,      51.5,       0.0);          ( 371715.9, 3768920.0,      51.5,       0.0);
     ( 371740.9, 3768920.0,      51.0,       0.0);          ( 371765.9, 3768920.0,      50.7,       0.0);
     ( 371790.9, 3768920.0,      50.2,       0.0);          ( 371815.9, 3768920.0,      50.0,       0.0);
     ( 371840.9, 3768920.0,      49.5,       0.0);          ( 371865.9, 3768920.0,      49.3,       0.0);
     ( 371890.9, 3768920.0,      49.0,       0.0);          ( 371915.9, 3768920.0,      48.7,       0.0);
     ( 371940.9, 3768920.0,      48.0,       0.0);          ( 371965.9, 3768920.0,      47.8,       0.0);
     ( 371990.9, 3768920.0,      47.0,       0.0);          ( 372015.9, 3768920.0,      46.7,       0.0);
     ( 372040.9, 3768920.0,      46.0,       0.0);          ( 372065.9, 3768920.0,      45.8,       0.0);
     ( 372090.9, 3768920.0,      45.2,       0.0);          ( 372115.9, 3768920.0,      44.9,       0.0);
     ( 372140.9, 3768920.0,      44.2,       0.0);          ( 372165.9, 3768920.0,      43.9,       0.0);
     ( 372190.9, 3768920.0,      43.2,       0.0);          ( 372215.9, 3768920.0,      43.0,       0.0);
     ( 372240.9, 3768920.0,      42.5,       0.0);          ( 372265.9, 3768920.0,      42.3,       0.0);

     ( 372290.9, 3768920.0,      41.9,       0.0);          ( 372315.9, 3768920.0,      41.7,       0.0);
     ( 372340.9, 3768920.0,      41.2,       0.0);          ( 372365.9, 3768920.0,      41.1,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                                  ***
07/07/05
                                    ***                                                                       ***
12:40:24
 **MODELOPTs:
PAGE  13
 CONC                    URBAN ELEV
HE>ZI


                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                          (X-COORD, Y-COORD, ZELEV, ZFLAG)
                                                    (METERS)


     ( 371340.9, 3768945.0,      57.2,       0.0);          ( 371365.9, 3768945.0,      56.5,       0.0);
     ( 371390.9, 3768945.0,      55.9,       0.0);          ( 371415.9, 3768945.0,      55.7,       0.0);
     ( 371440.9, 3768945.0,      55.3,       0.0);          ( 371465.9, 3768945.0,      55.1,       0.0);
     ( 371490.9, 3768945.0,      54.8,       0.0);          ( 371515.9, 3768945.0,      54.5,       0.0);
     ( 371540.9, 3768945.0,      54.0,       0.0);          ( 371565.9, 3768945.0,      53.6,       0.0);
     ( 371590.9, 3768945.0,      53.2,       0.0);          ( 371615.9, 3768945.0,      52.9,       0.0);
     ( 371640.9, 3768945.0,      52.5,       0.0);          ( 371665.9, 3768945.0,      52.1,       0.0);
```

```
    ( 371690.9, 3768945.0,      51.7,       0.0);         ( 371715.9, 3768945.0,      51.5,       0.0);
    ( 371740.9, 3768945.0,      51.0,       0.0);         ( 371765.9, 3768945.0,      50.7,       0.0);
    ( 371790.9, 3768945.0,      50.3,       0.0);         ( 371815.9, 3768945.0,      50.0,       0.0);
    ( 371840.9, 3768945.0,      49.5,       0.0);         ( 371865.9, 3768945.0,      49.2,       0.0);
    ( 371890.9, 3768945.0,      48.7,       0.0);         ( 371915.9, 3768945.0,      48.5,       0.0);
    ( 371940.9, 3768945.0,      48.1,       0.0);         ( 371965.9, 3768945.0,      47.6,       0.0);
    ( 371990.9, 3768945.0,      47.1,       0.0);         ( 372015.9, 3768945.0,      46.6,       0.0);
    ( 372040.9, 3768945.0,      46.1,       0.0);         ( 372065.9, 3768945.0,      45.7,       0.0);
    ( 372090.9, 3768945.0,      45.2,       0.0);         ( 372115.9, 3768945.0,      44.8,       0.0);
    ( 372140.9, 3768945.0,      44.3,       0.0);         ( 372165.9, 3768945.0,      44.0,       0.0);
    ( 372190.9, 3768945.0,      43.4,       0.0);         ( 372215.9, 3768945.0,      43.1,       0.0);
    ( 372240.9, 3768945.0,      42.6,       0.0);         ( 372265.9, 3768945.0,      42.3,       0.0);
    ( 372290.9, 3768945.0,      42.0,       0.0);         ( 372315.9, 3768945.0,      41.8,       0.0);
    ( 372340.9, 3768945.0,      41.5,       0.0);         ( 372365.9, 3768945.0,      41.2,       0.0);

    ( 371340.9, 3768970.0,      57.3,       0.0);         ( 371365.9, 3768970.0,      56.8,       0.0);
    ( 371390.9, 3768970.0,      56.1,       0.0);         ( 371415.9, 3768970.0,      55.9,       0.0);
    ( 371440.9, 3768970.0,      55.5,       0.0);         ( 371465.9, 3768970.0,      55.3,       0.0);
    ( 371490.9, 3768970.0,      54.8,       0.0);         ( 371515.9, 3768970.0,      54.6,       0.0);
    ( 371540.9, 3768970.0,      54.0,       0.0);         ( 371565.9, 3768970.0,      53.6,       0.0);
    ( 371590.9, 3768970.0,      53.2,       0.0);         ( 371615.9, 3768970.0,      53.0,       0.0);
    ( 371640.9, 3768970.0,      52.4,       0.0);         ( 371665.9, 3768970.0,      52.1,       0.0);
    ( 371690.9, 3768970.0,      51.7,       0.0);         ( 371715.9, 3768970.0,      51.5,       0.0);
    ( 371740.9, 3768970.0,      51.0,       0.0);         ( 371765.9, 3768970.0,      50.7,       0.0);
    ( 371790.9, 3768970.0,      50.2,       0.0);         ( 371815.9, 3768970.0,      50.0,       0.0);
    ( 371840.9, 3768970.0,      49.5,       0.0);         ( 371865.9, 3768970.0,      49.2,       0.0);
    ( 371890.9, 3768970.0,      48.7,       0.0);         ( 371915.9, 3768970.0,      48.4,       0.0);
    ( 371940.9, 3768970.0,      47.9,       0.0);         ( 371965.9, 3768970.0,      47.6,       0.0);
    ( 371990.9, 3768970.0,      47.0,       0.0);         ( 372015.9, 3768970.0,      46.6,       0.0);
    ( 372040.9, 3768970.0,      46.0,       0.0);         ( 372065.9, 3768970.0,      45.7,       0.0);
    ( 372090.9, 3768970.0,      45.2,       0.0);         ( 372115.9, 3768970.0,      44.9,       0.0);
    ( 372140.9, 3768970.0,      44.2,       0.0);         ( 372165.9, 3768970.0,      44.0,       0.0);
    ( 372190.9, 3768970.0,      43.4,       0.0);         ( 372215.9, 3768970.0,      43.1,       0.0);
    ( 372240.9, 3768970.0,      42.5,       0.0);         ( 372265.9, 3768970.0,      42.5,       0.0);
    ( 372290.9, 3768970.0,      42.0,       0.0);         ( 372315.9, 3768970.0,      41.8,       0.0);
    ( 372340.9, 3768970.0,      41.5,       0.0);         ( 372365.9, 3768970.0,      41.3,       0.0);
    ( 371340.9, 3768995.0,      57.6,       0.0);         ( 371365.9, 3768995.0,      57.1,       0.0);
    ( 371390.9, 3768995.0,      56.4,       0.0);         ( 371415.9, 3768995.0,      56.1,       0.0);
    ( 371440.9, 3768995.0,      55.7,       0.0);         ( 371465.9, 3768995.0,      55.3,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05
                                    ***                                                               ***
12:40:24
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(371490.9,	3768995.0,	54.8,	0.0);	(371515.9,	3768995.0,	54.5,	0.0);
(371540.9,	3768995.0,	54.1,	0.0);	(371565.9,	3768995.0,	53.7,	0.0);
(371590.9,	3768995.0,	53.3,	0.0);	(371615.9,	3768995.0,	52.8,	0.0);
(371640.9,	3768995.0,	52.5,	0.0);	(371665.9,	3768995.0,	52.1,	0.0);
(371690.9,	3768995.0,	51.7,	0.0);	(371715.9,	3768995.0,	51.5,	0.0);
(371815.9,	3768995.0,	50.0,	0.0);	(371840.9,	3768995.0,	49.5,	0.0);
(371865.9,	3768995.0,	49.1,	0.0);	(371890.9,	3768995.0,	48.7,	0.0);
(371915.9,	3768995.0,	48.3,	0.0);	(371940.9,	3768995.0,	47.8,	0.0);
(371965.9,	3768995.0,	47.6,	0.0);	(371990.9,	3768995.0,	47.0,	0.0);
(372015.9,	3768995.0,	46.6,	0.0);	(372040.9,	3768995.0,	46.1,	0.0);
(372065.9,	3768995.0,	45.7,	0.0);	(372090.9,	3768995.0,	45.2,	0.0);
(372115.9,	3768995.0,	45.0,	0.0);	(372140.9,	3768995.0,	44.5,	0.0);
(372165.9,	3768995.0,	44.1,	0.0);	(372190.9,	3768995.0,	43.6,	0.0);
(372215.9,	3768995.0,	43.2,	0.0);	(372240.9,	3768995.0,	42.8,	0.0);
(372265.9,	3768995.0,	42.5,	0.0);	(372290.9,	3768995.0,	42.2,	0.0);
(372315.9,	3768995.0,	42.0,	0.0);	(372340.9,	3768995.0,	41.6,	0.0);
(372365.9,	3768995.0,	41.5,	0.0);	(371340.9,	3769020.0,	57.6,	0.0);
(371365.9,	3769020.0,	57.1,	0.0);	(371390.9,	3769020.0,	56.5,	0.0);
(371415.9,	3769020.0,	56.1,	0.0);	(371440.9,	3769020.0,	55.5,	0.0);
(371465.9,	3769020.0,	55.3,	0.0);	(371490.9,	3769020.0,	54.7,	0.0);
(371515.9,	3769020.0,	54.5,	0.0);	(371540.9,	3769020.0,	54.0,	0.0);
(371565.9,	3769020.0,	53.7,	0.0);	(371590.9,	3769020.0,	53.2,	0.0);
(371615.9,	3769020.0,	53.0,	0.0);	(371640.9,	3769020.0,	52.4,	0.0);
(371665.9,	3769020.0,	52.1,	0.0);	(371690.9,	3769020.0,	51.7,	0.0);
(371715.9,	3769020.0,	51.5,	0.0);	(371740.9,	3769020.0,	51.0,	0.0);
(371765.9,	3769020.0,	50.7,	0.0);	(371790.9,	3769020.0,	50.2,	0.0);
(371815.9,	3769020.0,	50.0,	0.0);	(371840.9,	3769020.0,	49.4,	0.0);
(371865.9,	3769020.0,	49.1,	0.0);	(371890.9,	3769020.0,	48.7,	0.0);
(371915.9,	3769020.0,	48.4,	0.0);	(371940.9,	3769020.0,	47.8,	0.0);
(371965.9,	3769020.0,	47.6,	0.0);	(371990.9,	3769020.0,	46.9,	0.0);
(372015.9,	3769020.0,	46.6,	0.0);	(372040.9,	3769020.0,	46.0,	0.0);
(372065.9,	3769020.0,	45.8,	0.0);	(372090.9,	3769020.0,	45.2,	0.0);
(372115.9,	3769020.0,	45.0,	0.0);	(372140.9,	3769020.0,	44.4,	0.0);
(372165.9,	3769020.0,	44.1,	0.0);	(372190.9,	3769020.0,	43.5,	0.0);

```
     ( 372215.9, 3769020.0,      43.3,       0.0);          ( 372240.9, 3769020.0,      42.8,       0.0);
     ( 372265.9, 3769020.0,      42.6,       0.0);          ( 372290.9, 3769020.0,      42.2,       0.0);
     ( 372315.9, 3769020.0,      42.1,       0.0);          ( 372340.9, 3769020.0,      41.7,       0.0);
     ( 372365.9, 3769020.0,      41.6,       0.0);          ( 371340.9, 3769045.0,      57.7,       0.0);
     ( 371365.9, 3769045.0,      57.2,       0.0);          ( 371390.9, 3769045.0,      56.6,       0.0);
     ( 371415.9, 3769045.0,      56.1,       0.0);          ( 371440.9, 3769045.0,      55.6,       0.0);
     ( 371465.9, 3769045.0,      55.1,       0.0);          ( 371490.9, 3769045.0,      54.6,       0.0);
     ( 371515.9, 3769045.0,      54.5,       0.0);          ( 371540.9, 3769045.0,      54.0,       0.0);
     ( 371565.9, 3769045.0,      53.7,       0.0);          ( 371590.9, 3769045.0,      53.3,       0.0);
     ( 371615.9, 3769045.0,      53.0,       0.0);          ( 371640.9, 3769045.0,      52.6,       0.0);
     ( 371665.9, 3769045.0,      52.3,       0.0);          ( 371690.9, 3769045.0,      51.8,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                              ***
07/07/05
                                    ***                                                                   ***
12:40:24
 **MODELOPTs:
PAGE  15
 CONC                    URBAN ELEV
HE>ZI


                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                          (X-COORD, Y-COORD, ZELEV, ZFLAG)
                                                    (METERS)

     ( 371715.9, 3769045.0,      51.4,       0.0);          ( 371740.9, 3769045.0,      51.0,       0.0);
     ( 371765.9, 3769045.0,      50.7,       0.0);          ( 371790.9, 3769045.0,      50.3,       0.0);
     ( 371815.9, 3769045.0,      50.0,       0.0);          ( 371840.9, 3769045.0,      49.5,       0.0);
     ( 371865.9, 3769045.0,      49.2,       0.0);          ( 371890.9, 3769045.0,      48.7,       0.0);
     ( 371915.9, 3769045.0,      48.5,       0.0);          ( 371940.9, 3769045.0,      48.0,       0.0);
     ( 371965.9, 3769045.0,      47.6,       0.0);          ( 371990.9, 3769045.0,      47.1,       0.0);
     ( 372015.9, 3769045.0,      46.6,       0.0);          ( 372040.9, 3769045.0,      46.1,       0.0);
     ( 372065.9, 3769045.0,      45.8,       0.0);          ( 372090.9, 3769045.0,      45.3,       0.0);
     ( 372115.9, 3769045.0,      45.0,       0.0);          ( 372140.9, 3769045.0,      44.6,       0.0);
     ( 372165.9, 3769045.0,      44.2,       0.0);          ( 372190.9, 3769045.0,      43.8,       0.0);
     ( 372215.9, 3769045.0,      43.5,       0.0);          ( 372240.9, 3769045.0,      43.0,       0.0);
     ( 372265.9, 3769045.0,      42.8,       0.0);          ( 372290.9, 3769045.0,      42.5,       0.0);
     ( 372315.9, 3769045.0,      42.4,       0.0);          ( 372340.9, 3769045.0,      42.0,       0.0);
     ( 372365.9, 3769045.0,      41.8,       0.0);          ( 371340.9, 3769070.0,      57.6,       0.0);
     ( 371365.9, 3769070.0,      57.2,       0.0);          ( 371390.9, 3769070.0,      56.5,       0.0);
     ( 371415.9, 3769070.0,      56.1,       0.0);          ( 371440.9, 3769070.0,      55.5,       0.0);
     ( 371465.9, 3769070.0,      55.1,       0.0);          ( 371490.9, 3769070.0,      54.5,       0.0);
     ( 371515.9, 3769070.0,      54.4,       0.0);          ( 371540.9, 3769070.0,      54.0,       0.0);
     ( 371565.9, 3769070.0,      53.7,       0.0);          ( 371590.9, 3769070.0,      53.2,       0.0);
```

```
    ( 371615.9, 3769070.0,      53.0,       0.0);         ( 371640.9, 3769070.0,      52.5,       0.0);
    ( 371665.9, 3769070.0,      52.3,       0.0);         ( 371690.9, 3769070.0,      51.7,       0.0);
    ( 371715.9, 3769070.0,      51.6,       0.0);         ( 371740.9, 3769070.0,      51.0,       0.0);
    ( 371765.9, 3769070.0,      50.8,       0.0);         ( 371790.9, 3769070.0,      50.2,       0.0);
    ( 371815.9, 3769070.0,      50.0,       0.0);         ( 371840.9, 3769070.0,      49.5,       0.0);
    ( 371865.9, 3769070.0,      49.2,       0.0);         ( 371890.9, 3769070.0,      48.7,       0.0);
    ( 371915.9, 3769070.0,      48.5,       0.0);         ( 371940.9, 3769070.0,      47.9,       0.0);
    ( 371965.9, 3769070.0,      47.6,       0.0);         ( 371990.9, 3769070.0,      47.0,       0.0);
    ( 372015.9, 3769070.0,      46.8,       0.0);         ( 372040.9, 3769070.0,      46.0,       0.0);
    ( 372065.9, 3769070.0,      45.8,       0.0);         ( 372090.9, 3769070.0,      45.2,       0.0);
    ( 372115.9, 3769070.0,      45.1,       0.0);         ( 372140.9, 3769070.0,      44.5,       0.0);
    ( 372165.9, 3769070.0,      44.4,       0.0);         ( 372190.9, 3769070.0,      43.8,       0.0);
    ( 372215.9, 3769070.0,      43.6,       0.0);         ( 372240.9, 3769070.0,      43.0,       0.0);
    ( 372265.9, 3769070.0,      42.9,       0.0);         ( 372290.9, 3769070.0,      42.7,       0.0);
    ( 372315.9, 3769070.0,      42.5,       0.0);         ( 372340.9, 3769070.0,      42.0,       0.0);
    ( 372365.9, 3769070.0,      41.8,       0.0);         ( 371340.9, 3769095.0,      57.7,       0.0);
    ( 371365.9, 3769095.0,      57.1,       0.0);         ( 371390.9, 3769095.0,      56.5,       0.0);
    ( 371415.9, 3769095.0,      56.1,       0.0);         ( 371440.9, 3769095.0,      55.5,       0.0);
    ( 371465.9, 3769095.0,      55.1,       0.0);         ( 371490.9, 3769095.0,      54.6,       0.0);
    ( 371515.9, 3769095.0,      54.3,       0.0);         ( 371540.9, 3769095.0,      54.0,       0.0);
    ( 371565.9, 3769095.0,      53.7,       0.0);         ( 371590.9, 3769095.0,      53.3,       0.0);
    ( 371615.9, 3769095.0,      53.0,       0.0);         ( 371640.9, 3769095.0,      52.6,       0.0);
    ( 371665.9, 3769095.0,      52.3,       0.0);         ( 371690.9, 3769095.0,      51.9,       0.0);
    ( 371715.9, 3769095.0,      51.6,       0.0);         ( 371740.9, 3769095.0,      51.1,       0.0);
    ( 371765.9, 3769095.0,      50.8,       0.0);         ( 371790.9, 3769095.0,      50.4,       0.0);
    ( 371815.9, 3769095.0,      50.1,       0.0);         ( 371840.9, 3769095.0,      49.6,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05
                                    ***                                                               ***

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 **MODELOPTs:
PAGE  16
 CONC                    URBAN ELEV
HE>ZI


                                    *** DISCRETE CARTESIAN RECEPTORS ***
                                      (X-COORD, Y-COORD, ZELEV, ZFLAG)
                                                (METERS)

    ( 371865.9, 3769095.0,      49.2,       0.0);         ( 371890.9, 3769095.0,      48.8,       0.0);
    ( 371915.9, 3769095.0,      48.5,       0.0);         ( 371940.9, 3769095.0,      48.0,       0.0);
    ( 371965.9, 3769095.0,      47.8,       0.0);         ( 371990.9, 3769095.0,      47.2,       0.0);
    ( 372015.9, 3769095.0,      46.8,       0.0);         ( 372040.9, 3769095.0,      46.3,       0.0);
```

```
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    ( 372115.9, 3769095.0,      45.1,       0.0);         ( 372140.9, 3769095.0,      44.7,       0.0);
    ( 372165.9, 3769095.0,      44.5,       0.0);         ( 372190.9, 3769095.0,      44.0,       0.0);
    ( 372215.9, 3769095.0,      43.8,       0.0);         ( 372240.9, 3769095.0,      43.4,       0.0);
    ( 372265.9, 3769095.0,      43.2,       0.0);         ( 372290.9, 3769095.0,      42.8,       0.0);
    ( 372315.9, 3769095.0,      42.6,       0.0);         ( 372340.9, 3769095.0,      42.2,       0.0);
    ( 372365.9, 3769095.0,      42.0,       0.0);         ( 371340.9, 3769120.0,      57.5,       0.0);
    ( 371365.9, 3769120.0,      57.1,       0.0);         ( 371390.9, 3769120.0,      56.4,       0.0);
    ( 371415.9, 3769120.0,      56.1,       0.0);         ( 371440.9, 3769120.0,      55.4,       0.0);
    ( 371465.9, 3769120.0,      55.1,       0.0);         ( 371490.9, 3769120.0,      54.5,       0.0);
    ( 371515.9, 3769120.0,      54.4,       0.0);         ( 371540.9, 3769120.0,      53.9,       0.0);
    ( 371565.9, 3769120.0,      53.7,       0.0);         ( 371590.9, 3769120.0,      53.2,       0.0);
    ( 371615.9, 3769120.0,      53.0,       0.0);         ( 371640.9, 3769120.0,      52.5,       0.0);
    ( 371665.9, 3769120.0,      52.4,       0.0);         ( 371690.9, 3769120.0,      51.9,       0.0);
    ( 371715.9, 3769120.0,      51.6,       0.0);         ( 371740.9, 3769120.0,      51.0,       0.0);
    ( 371765.9, 3769120.0,      50.9,       0.0);         ( 371790.9, 3769120.0,      50.4,       0.0);
    ( 371815.9, 3769120.0,      50.1,       0.0);         ( 371840.9, 3769120.0,      49.5,       0.0);
    ( 371865.9, 3769120.0,      49.3,       0.0);         ( 371890.9, 3769120.0,      48.7,       0.0);
    ( 371915.9, 3769120.0,      48.5,       0.0);         ( 371940.9, 3769120.0,      48.0,       0.0);
    ( 371965.9, 3769120.0,      47.8,       0.0);         ( 371990.9, 3769120.0,      47.2,       0.0);
    ( 372015.9, 3769120.0,      46.9,       0.0);         ( 372040.9, 3769120.0,      46.2,       0.0);
    ( 372065.9, 3769120.0,      46.0,       0.0);         ( 372090.9, 3769120.0,      45.5,       0.0);
    ( 372115.9, 3769120.0,      45.2,       0.0);         ( 372140.9, 3769120.0,      44.7,       0.0);
    ( 372165.9, 3769120.0,      44.6,       0.0);         ( 372190.9, 3769120.0,      44.0,       0.0);
    ( 372215.9, 3769120.0,      43.9,       0.0);         ( 372240.9, 3769120.0,      43.5,       0.0);
    ( 372265.9, 3769120.0,      43.3,       0.0);         ( 372290.9, 3769120.0,      42.9,       0.0);
    ( 372315.9, 3769120.0,      42.6,       0.0);         ( 372340.9, 3769120.0,      42.2,       0.0);
    ( 372365.9, 3769120.0,      42.1,       0.0);         ( 371340.9, 3769145.0,      57.6,       0.0);
    ( 371365.9, 3769145.0,      57.1,       0.0);         ( 371390.9, 3769145.0,      56.5,       0.0);
    ( 371415.9, 3769145.0,      56.1,       0.0);         ( 371440.9, 3769145.0,      55.5,       0.0);
    ( 371465.9, 3769145.0,      55.1,       0.0);         ( 371490.9, 3769145.0,      54.6,       0.0);
    ( 371515.9, 3769145.0,      54.4,       0.0);         ( 371540.9, 3769145.0,      54.0,       0.0);
    ( 371565.9, 3769145.0,      53.8,       0.0);         ( 371590.9, 3769145.0,      53.3,       0.0);
    ( 371615.9, 3769145.0,      53.1,       0.0);         ( 371640.9, 3769145.0,      52.7,       0.0);
    ( 371665.9, 3769145.0,      52.5,       0.0);         ( 371690.9, 3769145.0,      52.0,       0.0);
    ( 371715.9, 3769145.0,      51.6,       0.0);         ( 371740.9, 3769145.0,      51.3,       0.0);
    ( 371765.9, 3769145.0,      51.0,       0.0);         ( 371790.9, 3769145.0,      50.5,       0.0);
    ( 371815.9, 3769145.0,      50.2,       0.0);         ( 371840.9, 3769145.0,      49.8,       0.0);
    ( 371865.9, 3769145.0,      49.5,       0.0);         ( 371890.9, 3769145.0,      49.0,       0.0);
    ( 371915.9, 3769145.0,      48.8,       0.0);         ( 371940.9, 3769145.0,      48.3,       0.0);
    ( 371965.9, 3769145.0,      48.0,       0.0);         ( 371990.9, 3769145.0,      47.5,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(	372015.9,	3769145.0,	47.1,	0.0);	(372040.9,	3769145.0,	46.5,	0.0);
(	372065.9,	3769145.0,	46.1,	0.0);	(372090.9,	3769145.0,	45.6,	0.0);
(	372115.9,	3769145.0,	45.3,	0.0);	(372140.9,	3769145.0,	45.0,	0.0);
(	372165.9,	3769145.0,	44.8,	0.0);	(372190.9,	3769145.0,	44.3,	0.0);
(	372215.9,	3769145.0,	44.1,	0.0);	(372240.9,	3769145.0,	43.6,	0.0);
(	372265.9,	3769145.0,	43.5,	0.0);	(372290.9,	3769145.0,	43.0,	0.0);
(	372315.9,	3769145.0,	42.8,	0.0);	(372340.9,	3769145.0,	42.5,	0.0);
(	372365.9,	3769145.0,	42.2,	0.0);	(371340.9,	3769170.0,	57.5,	0.0);
(	371365.9,	3769170.0,	57.1,	0.0);	(371390.9,	3769170.0,	56.4,	0.0);
(	371415.9,	3769170.0,	56.1,	0.0);	(371440.9,	3769170.0,	55.4,	0.0);
(	371465.9,	3769170.0,	55.1,	0.0);	(371490.9,	3769170.0,	54.5,	0.0);
(	371515.9,	3769170.0,	54.5,	0.0);	(371540.9,	3769170.0,	54.0,	0.0);
(	371565.9,	3769170.0,	53.8,	0.0);	(371590.9,	3769170.0,	53.4,	0.0);
(	371615.9,	3769170.0,	53.1,	0.0);	(371640.9,	3769170.0,	52.7,	0.0);
(	371665.9,	3769170.0,	52.5,	0.0);	(371690.9,	3769170.0,	52.0,	0.0);
(	371715.9,	3769170.0,	51.8,	0.0);	(371740.9,	3769170.0,	51.2,	0.0);
(	371765.9,	3769170.0,	51.0,	0.0);	(371790.9,	3769170.0,	50.5,	0.0);
(	371815.9,	3769170.0,	50.2,	0.0);	(371840.9,	3769170.0,	49.7,	0.0);
(	371865.9,	3769170.0,	49.6,	0.0);	(371890.9,	3769170.0,	49.0,	0.0);
(	371915.9,	3769170.0,	49.0,	0.0);	(371940.9,	3769170.0,	48.4,	0.0);
(	371965.9,	3769170.0,	48.1,	0.0);	(371990.9,	3769170.0,	47.4,	0.0);
(	372015.9,	3769170.0,	47.1,	0.0);	(372040.9,	3769170.0,	46.5,	0.0);
(	372065.9,	3769170.0,	46.1,	0.0);	(372090.9,	3769170.0,	45.5,	0.0);
(	372115.9,	3769170.0,	45.5,	0.0);	(372140.9,	3769170.0,	45.0,	0.0);
(	372165.9,	3769170.0,	44.8,	0.0);	(372190.9,	3769170.0,	44.4,	0.0);
(	372215.9,	3769170.0,	44.1,	0.0);	(372240.9,	3769170.0,	43.7,	0.0);
(	372265.9,	3769170.0,	43.5,	0.0);	(372290.9,	3769170.0,	43.0,	0.0);
(	372315.9,	3769170.0,	42.8,	0.0);	(372340.9,	3769170.0,	42.5,	0.0);
(	372365.9,	3769170.0,	42.3,	0.0);	(371340.9,	3769195.0,	57.5,	0.0);
(	371365.9,	3769195.0,	57.1,	0.0);	(371390.9,	3769195.0,	56.5,	0.0);
(	371415.9,	3769195.0,	56.1,	0.0);	(371440.9,	3769195.0,	55.6,	0.0);
(	371465.9,	3769195.0,	55.2,	0.0);	(371490.9,	3769195.0,	54.8,	0.0);

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    ( 371515.9, 3769195.0,      54.5,       0.0);         ( 371540.9, 3769195.0,      54.1,       0.0);
    ( 371565.9, 3769195.0,      53.9,       0.0);         ( 371590.9, 3769195.0,      53.5,       0.0);
    ( 371615.9, 3769195.0,      53.2,       0.0);         ( 371640.9, 3769195.0,      52.8,       0.0);
    ( 371665.9, 3769195.0,      52.5,       0.0);         ( 371690.9, 3769195.0,      52.1,       0.0);
    ( 371715.9, 3769195.0,      51.8,       0.0);         ( 371740.9, 3769195.0,      51.3,       0.0);
    ( 371765.9, 3769195.0,      51.0,       0.0);         ( 371790.9, 3769195.0,      50.6,       0.0);
    ( 371815.9, 3769195.0,      50.3,       0.0);         ( 371840.9, 3769195.0,      50.0,       0.0);
    ( 371865.9, 3769195.0,      49.7,       0.0);         ( 371890.9, 3769195.0,      49.3,       0.0);
    ( 371915.9, 3769195.0,      49.0,       0.0);         ( 371940.9, 3769195.0,      48.5,       0.0);
    ( 371965.9, 3769195.0,      48.2,       0.0);         ( 371990.9, 3769195.0,      47.6,       0.0);
    ( 372015.9, 3769195.0,      47.3,       0.0);         ( 372040.9, 3769195.0,      46.7,       0.0);
    ( 372065.9, 3769195.0,      46.3,       0.0);         ( 372090.9, 3769195.0,      46.0,       0.0);
    ( 372115.9, 3769195.0,      45.8,       0.0);         ( 372140.9, 3769195.0,      45.3,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05
                                    ***                                                               ***
12:40:24
 **MODELOPTs:
PAGE  18
 CONC                    URBAN ELEV
HE>ZI


                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                          (X-COORD, Y-COORD, ZELEV, ZFLAG)
                                                    (METERS)

    ( 372165.9, 3769195.0,      45.0,       0.0);         ( 372190.9, 3769195.0,      44.6,       0.0);
    ( 372215.9, 3769195.0,      44.4,       0.0);         ( 372240.9, 3769195.0,      44.0,       0.0);
    ( 372265.9, 3769195.0,      43.7,       0.0);         ( 372290.9, 3769195.0,      43.3,       0.0);
    ( 372315.9, 3769195.0,      43.0,       0.0);         ( 372340.9, 3769195.0,      42.7,       0.0);
    ( 372365.9, 3769195.0,      42.5,       0.0);         ( 371340.9, 3769220.0,      57.4,       0.0);
    ( 371365.9, 3769220.0,      57.1,       0.0);         ( 371390.9, 3769220.0,      56.4,       0.0);
    ( 371415.9, 3769220.0,      56.1,       0.0);         ( 371440.9, 3769220.0,      55.5,       0.0);
    ( 371465.9, 3769220.0,      55.3,       0.0);         ( 371490.9, 3769220.0,      54.8,       0.0);
    ( 371515.9, 3769220.0,      54.6,       0.0);         ( 371540.9, 3769220.0,      54.2,       0.0);
    ( 371565.9, 3769220.0,      54.0,       0.0);         ( 371590.9, 3769220.0,      53.5,       0.0);
    ( 371615.9, 3769220.0,      53.3,       0.0);         ( 371640.9, 3769220.0,      52.7,       0.0);
    ( 371665.9, 3769220.0,      52.5,       0.0);         ( 371690.9, 3769220.0,      52.0,       0.0);
    ( 371715.9, 3769220.0,      51.8,       0.0);         ( 371740.9, 3769220.0,      51.3,       0.0);
    ( 371765.9, 3769220.0,      51.1,       0.0);         ( 371790.9, 3769220.0,      50.5,       0.0);
    ( 371815.9, 3769220.0,      50.4,       0.0);         ( 371840.9, 3769220.0,      50.0,       0.0);
    ( 371865.9, 3769220.0,      49.7,       0.0);         ( 371890.9, 3769220.0,      49.2,       0.0);
    ( 371915.9, 3769220.0,      49.1,       0.0);         ( 371940.9, 3769220.0,      48.5,       0.0);
```

```
    ( 371965.9, 3769220.0,      48.3,       0.0);         ( 371990.9, 3769220.0,      47.7,       0.0);
    ( 372015.9, 3769220.0,      47.4,       0.0);         ( 372040.9, 3769220.0,      46.7,       0.0);
    ( 372065.9, 3769220.0,      46.5,       0.0);         ( 372090.9, 3769220.0,      46.0,       0.0);
    ( 372115.9, 3769220.0,      45.8,       0.0);         ( 372140.9, 3769220.0,      45.3,       0.0);
    ( 372165.9, 3769220.0,      45.1,       0.0);         ( 372190.9, 3769220.0,      44.7,       0.0);
    ( 372215.9, 3769220.0,      44.5,       0.0);         ( 372240.9, 3769220.0,      44.0,       0.0);
    ( 372265.9, 3769220.0,      43.8,       0.0);         ( 372290.9, 3769220.0,      43.3,       0.0);
    ( 372315.9, 3769220.0,      43.1,       0.0);         ( 372340.9, 3769220.0,      42.7,       0.0);
    ( 372365.9, 3769220.0,      42.6,       0.0);         ( 371340.9, 3769245.0,      57.3,       0.0);
    ( 371365.9, 3769245.0,      57.1,       0.0);         ( 371390.9, 3769245.0,      56.6,       0.0);
    ( 371415.9, 3769245.0,      56.2,       0.0);         ( 371440.9, 3769245.0,      55.8,       0.0);
    ( 371465.9, 3769245.0,      55.5,       0.0);         ( 371490.9, 3769245.0,      55.0,       0.0);
    ( 371515.9, 3769245.0,      54.7,       0.0);         ( 371540.9, 3769245.0,      54.3,       0.0);
    ( 371565.9, 3769245.0,      54.0,       0.0);         ( 371590.9, 3769245.0,      53.6,       0.0);
    ( 371615.9, 3769245.0,      53.3,       0.0);         ( 371640.9, 3769245.0,      52.8,       0.0);
    ( 371665.9, 3769245.0,      52.6,       0.0);         ( 371690.9, 3769245.0,      52.1,       0.0);
    ( 371715.9, 3769245.0,      52.0,       0.0);         ( 371740.9, 3769245.0,      51.5,       0.0);
    ( 371765.9, 3769245.0,      51.1,       0.0);         ( 371790.9, 3769245.0,      50.7,       0.0);
    ( 371815.9, 3769245.0,      50.5,       0.0);         ( 371840.9, 3769245.0,      50.0,       0.0);
    ( 371865.9, 3769245.0,      49.8,       0.0);         ( 371890.9, 3769245.0,      49.5,       0.0);
    ( 371915.9, 3769245.0,      49.1,       0.0);         ( 371940.9, 3769245.0,      48.6,       0.0);
    ( 371965.9, 3769245.0,      48.3,       0.0);         ( 371990.9, 3769245.0,      47.8,       0.0);

    ( 372015.9, 3769245.0,      47.5,       0.0);         ( 372040.9, 3769245.0,      47.0,       0.0);
    ( 372065.9, 3769245.0,      46.6,       0.0);         ( 372090.9, 3769245.0,      46.2,       0.0);
    ( 372115.9, 3769245.0,      46.0,       0.0);         ( 372140.9, 3769245.0,      45.5,       0.0);
    ( 372165.9, 3769245.0,      45.2,       0.0);         ( 372190.9, 3769245.0,      44.8,       0.0);
    ( 372215.9, 3769245.0,      44.6,       0.0);         ( 372240.9, 3769245.0,      44.1,       0.0);
    ( 372265.9, 3769245.0,      43.9,       0.0);         ( 372290.9, 3769245.0,      43.5,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05
                                    ***                                                               ***
12:40:24
 **MODELOPTs:
PAGE  19
 CONC                    URBAN ELEV
HE>ZI


                                    *** DISCRETE CARTESIAN RECEPTORS ***
                                      (X-COORD, Y-COORD, ZELEV, ZFLAG)
                                                (METERS)

    ( 372315.9, 3769245.0,      43.3,       0.0);         ( 372340.9, 3769245.0,      43.0,       0.0);
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( 372365.9, 3769245.0,      42.8,       0.0);        ( 371340.9, 3769270.0,      57.2,       0.0);
( 371365.9, 3769270.0,      57.0,       0.0);        ( 371390.9, 3769270.0,      56.5,       0.0);
( 371415.9, 3769270.0,      56.3,       0.0);        ( 371440.9, 3769270.0,      55.7,       0.0);
( 371465.9, 3769270.0,      55.5,       0.0);        ( 371490.9, 3769270.0,      55.0,       0.0);
( 371515.9, 3769270.0,      54.8,       0.0);        ( 371540.9, 3769270.0,      54.2,       0.0);
( 371565.9, 3769270.0,      54.1,       0.0);        ( 371590.9, 3769270.0,      53.5,       0.0);
( 371615.9, 3769270.0,      53.3,       0.0);        ( 371640.9, 3769270.0,      52.8,       0.0);
( 371665.9, 3769270.0,      52.6,       0.0);        ( 371690.9, 3769270.0,      52.2,       0.0);
( 371715.9, 3769270.0,      52.0,       0.0);        ( 371740.9, 3769270.0,      51.4,       0.0);
( 371765.9, 3769270.0,      51.1,       0.0);        ( 371790.9, 3769270.0,      50.7,       0.0);
( 371815.9, 3769270.0,      50.5,       0.0);        ( 371840.9, 3769270.0,      50.0,       0.0);
( 371865.9, 3769270.0,      49.8,       0.0);        ( 371890.9, 3769270.0,      49.4,       0.0);
( 371915.9, 3769270.0,      49.1,       0.0);        ( 371940.9, 3769270.0,      48.7,       0.0);
( 371965.9, 3769270.0,      48.5,       0.0);        ( 371990.9, 3769270.0,      47.8,       0.0);
( 372015.9, 3769270.0,      47.6,       0.0);        ( 372040.9, 3769270.0,      47.0,       0.0);
( 372065.9, 3769270.0,      46.8,       0.0);        ( 372090.9, 3769270.0,      46.2,       0.0);

( 372115.9, 3769270.0,      46.0,       0.0);        ( 372140.9, 3769270.0,      45.5,       0.0);
( 372165.9, 3769270.0,      45.3,       0.0);        ( 372190.9, 3769270.0,      44.9,       0.0);
( 372215.9, 3769270.0,      44.6,       0.0);        ( 372240.9, 3769270.0,      44.2,       0.0);
( 372265.9, 3769270.0,      44.0,       0.0);        ( 372290.9, 3769270.0,      43.5,       0.0);
( 372315.9, 3769270.0,      43.5,       0.0);        ( 372340.9, 3769270.0,      43.0,       0.0);
( 372365.9, 3769270.0,      43.0,       0.0);        ( 371340.9, 3769295.0,      57.3,       0.0);
( 371365.9, 3769295.0,      57.0,       0.0);        ( 371390.9, 3769295.0,      56.6,       0.0);
( 371415.9, 3769295.0,      56.3,       0.0);        ( 371440.9, 3769295.0,      55.8,       0.0);
( 371465.9, 3769295.0,      55.6,       0.0);        ( 371490.9, 3769295.0,      55.1,       0.0);
( 371515.9, 3769295.0,      54.8,       0.0);        ( 371540.9, 3769295.0,      54.5,       0.0);
( 371565.9, 3769295.0,      54.1,       0.0);        ( 371590.9, 3769295.0,      53.6,       0.0);
( 371615.9, 3769295.0,      53.4,       0.0);        ( 371640.9, 3769295.0,      53.0,       0.0);
( 371665.9, 3769295.0,      52.6,       0.0);        ( 371690.9, 3769295.0,      52.2,       0.0);
( 371715.9, 3769295.0,      52.0,       0.0);        ( 371740.9, 3769295.0,      51.5,       0.0);
( 371765.9, 3769295.0,      51.2,       0.0);        ( 371790.9, 3769295.0,      50.8,       0.0);
( 371815.9, 3769295.0,      50.6,       0.0);        ( 371840.9, 3769295.0,      50.1,       0.0);
( 371865.9, 3769295.0,      49.9,       0.0);        ( 371890.9, 3769295.0,      49.5,       0.0);
( 371915.9, 3769295.0,      49.2,       0.0);        ( 371940.9, 3769295.0,      48.8,       0.0);
( 371965.9, 3769295.0,      48.5,       0.0);        ( 371990.9, 3769295.0,      48.0,       0.0);
( 372015.9, 3769295.0,      47.6,       0.0);        ( 372040.9, 3769295.0,      47.1,       0.0);
( 372065.9, 3769295.0,      46.8,       0.0);        ( 372090.9, 3769295.0,      46.4,       0.0);
( 372115.9, 3769295.0,      46.1,       0.0);        ( 372140.9, 3769295.0,      45.6,       0.0);
( 372165.9, 3769295.0,      45.5,       0.0);        ( 372190.9, 3769295.0,      45.0,       0.0);
( 372215.9, 3769295.0,      44.8,       0.0);        ( 372240.9, 3769295.0,      44.4,       0.0);
( 372265.9, 3769295.0,      44.1,       0.0);        ( 372290.9, 3769295.0,      43.7,       0.0);
( 372315.9, 3769295.0,      43.5,       0.0);        ( 372340.9, 3769295.0,      43.2,       0.0);
( 372365.9, 3769295.0,      43.0,       0.0);        ( 371340.9, 3769320.0,      57.2,       0.0);
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(	371415.9,	3769320.0,	56.3,	0.0);	(371440.9,	3769320.0,	55.9, 0.0);
(	371465.9,	3769320.0,	55.6,	0.0);	(371490.9,	3769320.0,	55.2, 0.0);
(	371515.9,	3769320.0,	55.0,	0.0);	(371540.9,	3769320.0,	54.4, 0.0);
(	371565.9,	3769320.0,	54.1,	0.0);	(371590.9,	3769320.0,	53.7, 0.0);
(	371615.9,	3769320.0,	53.5,	0.0);	(371640.9,	3769320.0,	52.9, 0.0);
(	371665.9,	3769320.0,	52.7,	0.0);	(371690.9,	3769320.0,	52.2, 0.0);
(	371715.9,	3769320.0,	52.0,	0.0);	(371740.9,	3769320.0,	51.5, 0.0);
(	371765.9,	3769320.0,	51.3,	0.0);	(371790.9,	3769320.0,	50.8, 0.0);
(	371815.9,	3769320.0,	50.6,	0.0);	(371840.9,	3769320.0,	50.2, 0.0);
(	371865.9,	3769320.0,	50.0,	0.0);	(371890.9,	3769320.0,	49.5, 0.0);
(	371915.9,	3769320.0,	49.2,	0.0);	(371940.9,	3769320.0,	48.7, 0.0);
(	371965.9,	3769320.0,	48.5,	0.0);	(371990.9,	3769320.0,	47.9, 0.0);
(	372015.9,	3769320.0,	47.6,	0.0);	(372040.9,	3769320.0,	47.0, 0.0);
(	372065.9,	3769320.0,	46.9,	0.0);	(372090.9,	3769320.0,	46.4, 0.0);
(	372115.9,	3769320.0,	46.1,	0.0);	(372140.9,	3769320.0,	45.7, 0.0);
(	372165.9,	3769320.0,	45.5,	0.0);	(372190.9,	3769320.0,	45.0, 0.0);
(	372215.9,	3769320.0,	44.8,	0.0);	(372240.9,	3769320.0,	44.4, 0.0);
(	372265.9,	3769320.0,	44.2,	0.0);	(372290.9,	3769320.0,	43.7, 0.0);
(	372315.9,	3769320.0,	43.6,	0.0);	(372340.9,	3769320.0,	43.2, 0.0);
(	372365.9,	3769320.0,	43.1,	0.0);	(371340.9,	3769345.0,	57.3, 0.0);
(	371365.9,	3769345.0,	57.1,	0.0);	(371390.9,	3769345.0,	56.6, 0.0);
(	371415.9,	3769345.0,	56.3,	0.0);	(371440.9,	3769345.0,	56.0, 0.0);
(	371465.9,	3769345.0,	55.6,	0.0);	(371490.9,	3769345.0,	55.3, 0.0);
(	371515.9,	3769345.0,	55.0,	0.0);	(371540.9,	3769345.0,	54.5, 0.0);
(	371565.9,	3769345.0,	54.2,	0.0);	(371590.9,	3769345.0,	53.8, 0.0);
(	371615.9,	3769345.0,	53.5,	0.0);	(371640.9,	3769345.0,	53.0, 0.0);
(	371665.9,	3769345.0,	52.8,	0.0);	(371690.9,	3769345.0,	52.3, 0.0);
(	371715.9,	3769345.0,	52.0,	0.0);	(371740.9,	3769345.0,	51.6, 0.0);
(	371765.9,	3769345.0,	51.3,	0.0);	(371790.9,	3769345.0,	51.0, 0.0);

```
    ( 371815.9, 3769345.0,      50.6,       0.0);          ( 371840.9, 3769345.0,      50.2,       0.0);
    ( 371865.9, 3769345.0,      50.0,       0.0);          ( 371890.9, 3769345.0,      49.5,       0.0);
    ( 371915.9, 3769345.0,      49.2,       0.0);          ( 371940.9, 3769345.0,      48.8,       0.0);
    ( 371965.9, 3769345.0,      48.5,       0.0);          ( 371990.9, 3769345.0,      48.0,       0.0);
    ( 372015.9, 3769345.0,      47.7,       0.0);          ( 372040.9, 3769345.0,      47.2,       0.0);
    ( 372065.9, 3769345.0,      47.0,       0.0);          ( 372090.9, 3769345.0,      46.5,       0.0);
    ( 372115.9, 3769345.0,      46.3,       0.0);          ( 372140.9, 3769345.0,      45.8,       0.0);
    ( 372165.9, 3769345.0,      45.6,       0.0);          ( 372190.9, 3769345.0,      45.2,       0.0);
    ( 372215.9, 3769345.0,      45.0,       0.0);          ( 372240.9, 3769345.0,      44.5,       0.0);
    ( 372265.9, 3769345.0,      44.3,       0.0);          ( 372290.9, 3769345.0,      44.0,       0.0);
    ( 372315.9, 3769345.0,      43.7,       0.0);          ( 372340.9, 3769345.0,      43.4,       0.0);
    ( 372365.9, 3769345.0,      43.1,       0.0);          ( 371340.9, 3769370.0,      57.3,       0.0);
    ( 371365.9, 3769370.0,      57.1,       0.0);          ( 371390.9, 3769370.0,      56.5,       0.0);
    ( 371415.9, 3769370.0,      56.4,       0.0);          ( 371440.9, 3769370.0,      55.9,       0.0);
    ( 371465.9, 3769370.0,      55.6,       0.0);          ( 371490.9, 3769370.0,      55.2,       0.0);
    ( 371515.9, 3769370.0,      55.0,       0.0);          ( 371540.9, 3769370.0,      54.5,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05
                                    ***                                                               ***
12:40:24
 **MODELOPTs:
PAGE  21
 CONC                    URBAN ELEV
HE>ZI


                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                    (X-COORD, Y-COORD, ZELEV, ZFLAG)
                                              (METERS)

    ( 371565.9, 3769370.0,      54.2,       0.0);          ( 371590.9, 3769370.0,      53.7,       0.0);
    ( 371615.9, 3769370.0,      53.5,       0.0);          ( 371640.9, 3769370.0,      53.0,       0.0);
    ( 371665.9, 3769370.0,      52.8,       0.0);          ( 371690.9, 3769370.0,      52.2,       0.0);
    ( 371715.9, 3769370.0,      52.1,       0.0);          ( 371740.9, 3769370.0,      51.5,       0.0);
    ( 371765.9, 3769370.0,      51.5,       0.0);          ( 371790.9, 3769370.0,      50.9,       0.0);
    ( 371815.9, 3769370.0,      50.6,       0.0);          ( 371840.9, 3769370.0,      50.2,       0.0);
    ( 371865.9, 3769370.0,      50.0,       0.0);          ( 371890.9, 3769370.0,      49.5,       0.0);
    ( 371915.9, 3769370.0,      49.3,       0.0);          ( 371940.9, 3769370.0,      48.7,       0.0);
    ( 371965.9, 3769370.0,      48.5,       0.0);          ( 371990.9, 3769370.0,      48.0,       0.0);
    ( 372015.9, 3769370.0,      47.7,       0.0);          ( 372040.9, 3769370.0,      47.2,       0.0);
    ( 372065.9, 3769370.0,      47.0,       0.0);          ( 372090.9, 3769370.0,      46.5,       0.0);
    ( 372115.9, 3769370.0,      46.3,       0.0);          ( 372140.9, 3769370.0,      45.9,       0.0);
    ( 372165.9, 3769370.0,      45.6,       0.0);          ( 372190.9, 3769370.0,      45.2,       0.0);
    ( 372215.9, 3769370.0,      45.0,       0.0);          ( 372240.9, 3769370.0,      44.5,       0.0);
```

```
    ( 372265.9, 3769370.0,      44.4,       0.0);         ( 372290.9, 3769370.0,      43.9,       0.0);
    ( 372315.9, 3769370.0,      43.8,       0.0);         ( 372340.9, 3769370.0,      43.4,       0.0);
    ( 372365.9, 3769370.0,      43.2,       0.0);         ( 371340.9, 3769395.0,      57.5,       0.0);
    ( 371365.9, 3769395.0,      57.1,       0.0);         ( 371390.9, 3769395.0,      56.7,       0.0);
    ( 371415.9, 3769395.0,      56.5,       0.0);         ( 371440.9, 3769395.0,      56.0,       0.0);
    ( 371465.9, 3769395.0,      55.6,       0.0);         ( 371490.9, 3769395.0,      55.2,       0.0);
    ( 371515.9, 3769395.0,      54.9,       0.0);         ( 371540.9, 3769395.0,      54.5,       0.0);
    ( 371565.9, 3769395.0,      54.2,       0.0);         ( 371590.9, 3769395.0,      53.8,       0.0);
    ( 371615.9, 3769395.0,      53.5,       0.0);         ( 371640.9, 3769395.0,      53.1,       0.0);
    ( 371665.9, 3769395.0,      52.8,       0.0);         ( 371690.9, 3769395.0,      52.5,       0.0);
    ( 371715.9, 3769395.0,      52.2,       0.0);         ( 371740.9, 3769395.0,      51.7,       0.0);
    ( 371765.9, 3769395.0,      51.5,       0.0);         ( 371790.9, 3769395.0,      51.0,       0.0);
    ( 371815.9, 3769395.0,      50.8,       0.0);         ( 371840.9, 3769395.0,      50.3,       0.0);
    ( 371865.9, 3769395.0,      50.0,       0.0);         ( 371890.9, 3769395.0,      49.6,       0.0);
    ( 371915.9, 3769395.0,      49.3,       0.0);         ( 371940.9, 3769395.0,      48.8,       0.0);
    ( 371965.9, 3769395.0,      48.5,       0.0);         ( 371990.9, 3769395.0,      48.1,       0.0);
    ( 372015.9, 3769395.0,      47.8,       0.0);         ( 372040.9, 3769395.0,      47.3,       0.0);
    ( 372065.9, 3769395.0,      47.0,       0.0);         ( 372090.9, 3769395.0,      46.6,       0.0);
    ( 372115.9, 3769395.0,      46.3,       0.0);         ( 372140.9, 3769395.0,      46.0,       0.0);
    ( 372165.9, 3769395.0,      45.6,       0.0);         ( 372190.9, 3769395.0,      45.3,       0.0);
    ( 372215.9, 3769395.0,      45.0,       0.0);         ( 372240.9, 3769395.0,      44.7,       0.0);
    ( 372265.9, 3769395.0,      44.5,       0.0);         ( 372290.9, 3769395.0,      44.1,       0.0);
    ( 372315.9, 3769395.0,      43.9,       0.0);         ( 372340.9, 3769395.0,      43.5,       0.0);
    ( 372365.9, 3769395.0,      43.3,       0.0);         ( 371340.9, 3769420.0,      57.4,       0.0);
    ( 371365.9, 3769420.0,      57.1,       0.0);         ( 371390.9, 3769420.0,      56.7,       0.0);
    ( 371415.9, 3769420.0,      56.5,       0.0);         ( 371440.9, 3769420.0,      55.9,       0.0);
    ( 371465.9, 3769420.0,      55.6,       0.0);         ( 371490.9, 3769420.0,      55.2,       0.0);
    ( 371515.9, 3769420.0,      54.9,       0.0);         ( 371540.9, 3769420.0,      54.4,       0.0);
    ( 371565.9, 3769420.0,      54.2,       0.0);         ( 371590.9, 3769420.0,      53.7,       0.0);
    ( 371615.9, 3769420.0,      53.6,       0.0);         ( 371640.9, 3769420.0,      53.0,       0.0);
    ( 371665.9, 3769420.0,      52.9,       0.0);         ( 371690.9, 3769420.0,      52.5,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05
                                    ***                                                               ***
12:40:24
 **MODELOPTs:
PAGE  22
 CONC                    URBAN ELEV
HE>ZI


                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                    (X-COORD, Y-COORD, ZELEV, ZFLAG)
                                              (METERS)
```

```
( 371715.9, 3769420.0,      52.2,       0.0);        ( 371740.9, 3769420.0,      51.7,       0.0);
( 371765.9, 3769420.0,      51.5,       0.0);        ( 371790.9, 3769420.0,      51.0,       0.0);
( 371815.9, 3769420.0,      50.8,       0.0);        ( 371840.9, 3769420.0,      50.2,       0.0);
( 371865.9, 3769420.0,      50.1,       0.0);        ( 371890.9, 3769420.0,      49.5,       0.0);
( 371915.9, 3769420.0,      49.3,       0.0);        ( 371940.9, 3769420.0,      48.7,       0.0);
( 371965.9, 3769420.0,      48.5,       0.0);        ( 371990.9, 3769420.0,      48.0,       0.0);
( 372015.9, 3769420.0,      47.8,       0.0);        ( 372040.9, 3769420.0,      47.2,       0.0);
( 372065.9, 3769420.0,      47.1,       0.0);        ( 372090.9, 3769420.0,      46.5,       0.0);
( 372115.9, 3769420.0,      46.4,       0.0);        ( 372140.9, 3769420.0,      45.9,       0.0);
( 372165.9, 3769420.0,      45.6,       0.0);        ( 372190.9, 3769420.0,      45.2,       0.0);
( 372215.9, 3769420.0,      45.1,       0.0);        ( 372240.9, 3769420.0,      44.7,       0.0);
( 372265.9, 3769420.0,      44.5,       0.0);        ( 372290.9, 3769420.0,      44.0,       0.0);
( 372315.9, 3769420.0,      44.0,       0.0);        ( 372340.9, 3769420.0,      43.5,       0.0);
( 372365.9, 3769420.0,      43.3,       0.0);        ( 371340.9, 3769445.0,      57.5,       0.0);
( 371365.9, 3769445.0,      57.2,       0.0);        ( 371390.9, 3769445.0,      56.8,       0.0);
( 371415.9, 3769445.0,      56.5,       0.0);        ( 371440.9, 3769445.0,      56.0,       0.0);
( 371465.9, 3769445.0,      55.7,       0.0);        ( 371490.9, 3769445.0,      55.2,       0.0);
( 371515.9, 3769445.0,      55.0,       0.0);        ( 371540.9, 3769445.0,      54.5,       0.0);
( 371565.9, 3769445.0,      54.2,       0.0);        ( 371590.9, 3769445.0,      53.8,       0.0);
( 371615.9, 3769445.0,      53.6,       0.0);        ( 371640.9, 3769445.0,      53.2,       0.0);
( 371665.9, 3769445.0,      53.0,       0.0);        ( 371690.9, 3769445.0,      52.6,       0.0);
( 371715.9, 3769445.0,      52.3,       0.0);        ( 371740.9, 3769445.0,      51.9,       0.0);
( 371765.9, 3769445.0,      51.6,       0.0);        ( 371790.9, 3769445.0,      51.1,       0.0);
( 371815.9, 3769445.0,      50.9,       0.0);        ( 371840.9, 3769445.0,      50.5,       0.0);
( 371865.9, 3769445.0,      50.1,       0.0);        ( 371890.9, 3769445.0,      49.6,       0.0);
( 371915.9, 3769445.0,      49.3,       0.0);        ( 371940.9, 3769445.0,      48.9,       0.0);
( 371965.9, 3769445.0,      48.6,       0.0);        ( 371990.9, 3769445.0,      48.1,       0.0);
( 372015.9, 3769445.0,      47.8,       0.0);        ( 372040.9, 3769445.0,      47.5,       0.0);
( 372065.9, 3769445.0,      47.1,       0.0);        ( 372090.9, 3769445.0,      46.7,       0.0);
( 372115.9, 3769445.0,      46.5,       0.0);        ( 372140.9, 3769445.0,      46.0,       0.0);
( 372165.9, 3769445.0,      45.7,       0.0);        ( 372190.9, 3769445.0,      45.4,       0.0);
( 372215.9, 3769445.0,      45.1,       0.0);        ( 372240.9, 3769445.0,      44.8,       0.0);
( 372265.9, 3769445.0,      44.6,       0.0);        ( 372290.9, 3769445.0,      44.2,       0.0);
( 372315.9, 3769445.0,      44.0,       0.0);        ( 372340.9, 3769445.0,      43.6,       0.0);
( 372365.9, 3769445.0,      43.5,       0.0);        ( 371340.9, 3769470.0,      57.5,       0.0);
( 371365.9, 3769470.0,      57.3,       0.0);        ( 371390.9, 3769470.0,      56.7,       0.0);
( 371415.9, 3769470.0,      56.5,       0.0);        ( 371440.9, 3769470.0,      56.0,       0.0);
( 371465.9, 3769470.0,      55.8,       0.0);        ( 371490.9, 3769470.0,      55.2,       0.0);
( 371515.9, 3769470.0,      55.0,       0.0);        ( 371540.9, 3769470.0,      54.5,       0.0);
( 371565.9, 3769470.0,      54.3,       0.0);        ( 371590.9, 3769470.0,      53.9,       0.0);
( 371615.9, 3769470.0,      53.6,       0.0);        ( 371640.9, 3769470.0,      53.2,       0.0);
( 371665.9, 3769470.0,      53.0,       0.0);        ( 371690.9, 3769470.0,      52.5,       0.0);
( 371715.9, 3769470.0,      52.4,       0.0);        ( 371740.9, 3769470.0,      51.9,       0.0);
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(371865.9, 3769470.0,	50.1,	0.0);	(371890.9, 3769470.0, 49.7, 0.0);
(371915.9, 3769470.0,	49.5,	0.0);	(371940.9, 3769470.0, 48.9, 0.0);
(371965.9, 3769470.0,	48.6,	0.0);	(371990.9, 3769470.0, 48.2, 0.0);
(372015.9, 3769470.0,	48.0,	0.0);	(372040.9, 3769470.0, 47.4, 0.0);
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(372115.9, 3769470.0,	46.5,	0.0);	(372140.9, 3769470.0, 46.0, 0.0);
(372165.9, 3769470.0,	45.8,	0.0);	(372190.9, 3769470.0, 45.4, 0.0);
(372215.9, 3769470.0,	45.2,	0.0);	(372240.9, 3769470.0, 44.8, 0.0);
(372265.9, 3769470.0,	44.6,	0.0);	(372290.9, 3769470.0, 44.2, 0.0);
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(372365.9, 3769470.0,	43.5,	0.0);	(371340.9, 3769495.0, 57.6, 0.0);
(371365.9, 3769495.0,	57.3,	0.0);	(371390.9, 3769495.0, 57.0, 0.0);
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(371565.9, 3769495.0,	54.4,	0.0);	(371590.9, 3769495.0, 54.0, 0.0);
(371615.9, 3769495.0,	53.8,	0.0);	(371640.9, 3769495.0, 53.4, 0.0);
(371665.9, 3769495.0,	53.2,	0.0);	(371690.9, 3769495.0, 52.8, 0.0);
(371715.9, 3769495.0,	52.5,	0.0);	(371740.9, 3769495.0, 52.1, 0.0);
(371765.9, 3769495.0,	51.8,	0.0);	(371790.9, 3769495.0, 51.3, 0.0);
(371815.9, 3769495.0,	51.0,	0.0);	(371840.9, 3769495.0, 50.6, 0.0);
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(371915.9, 3769495.0,	49.5,	0.0);	(371940.9, 3769495.0, 49.1, 0.0);
(371965.9, 3769495.0,	48.8,	0.0);	(371990.9, 3769495.0, 48.3, 0.0);
(372015.9, 3769495.0,	48.0,	0.0);	(372040.9, 3769495.0, 47.6, 0.0);
(372065.9, 3769495.0,	47.3,	0.0);	(372090.9, 3769495.0, 46.8, 0.0);
(372115.9, 3769495.0,	46.5,	0.0);	(372140.9, 3769495.0, 46.1, 0.0);
(372165.9, 3769495.0,	45.9,	0.0);	(372190.9, 3769495.0, 45.5, 0.0);

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    ( 372215.9, 3769495.0,      45.3,       0.0);          ( 372240.9, 3769495.0,      45.0,       0.0);
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    ( 372315.9, 3769495.0,      44.2,       0.0);          ( 372340.9, 3769495.0,      43.8,       0.0);
    ( 372365.9, 3769495.0,      43.7,       0.0);          ( 371340.9, 3769520.0,      57.5,       0.0);
    ( 371365.9, 3769520.0,      57.4,       0.0);          ( 371390.9, 3769520.0,      56.9,       0.0);
    ( 371415.9, 3769520.0,      56.6,       0.0);          ( 371440.9, 3769520.0,      56.2,       0.0);
    ( 371465.9, 3769520.0,      56.0,       0.0);          ( 371490.9, 3769520.0,      55.4,       0.0);
    ( 371515.9, 3769520.0,      55.1,       0.0);          ( 371540.9, 3769520.0,      54.7,       0.0);
    ( 371565.9, 3769520.0,      54.5,       0.0);          ( 371590.9, 3769520.0,      54.0,       0.0);
    ( 371615.9, 3769520.0,      54.0,       0.0);          ( 371640.9, 3769520.0,      53.5,       0.0);
    ( 371665.9, 3769520.0,      53.3,       0.0);          ( 371690.9, 3769520.0,      52.7,       0.0);
    ( 371715.9, 3769520.0,      52.6,       0.0);          ( 371740.9, 3769520.0,      52.0,       0.0);
    ( 371765.9, 3769520.0,      51.8,       0.0);          ( 371790.9, 3769520.0,      51.3,       0.0);
    ( 371815.9, 3769520.0,      51.1,       0.0);          ( 371840.9, 3769520.0,      50.5,       0.0);
    ( 371865.9, 3769520.0,      50.3,       0.0);          ( 371890.9, 3769520.0,      49.8,       0.0);
    ( 371915.9, 3769520.0,      49.6,       0.0);          ( 371940.9, 3769520.0,      49.0,       0.0);
    ( 371965.9, 3769520.0,      48.8,       0.0);          ( 371990.9, 3769520.0,      48.3,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05
                                    ***                                                               ***
12:40:24
 **MODELOPTs:
PAGE  24
 CONC                    URBAN ELEV
HE>ZI


                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                    (X-COORD, Y-COORD, ZELEV, ZFLAG)
                                                (METERS)

    ( 372015.9, 3769520.0,      48.1,       0.0);          ( 372040.9, 3769520.0,      47.5,       0.0);
    ( 372065.9, 3769520.0,      47.3,       0.0);          ( 372090.9, 3769520.0,      46.9,       0.0);
    ( 372115.9, 3769520.0,      46.6,       0.0);          ( 372140.9, 3769520.0,      46.2,       0.0);
    ( 372165.9, 3769520.0,      46.0,       0.0);          ( 372190.9, 3769520.0,      45.5,       0.0);
    ( 372215.9, 3769520.0,      45.3,       0.0);          ( 372240.9, 3769520.0,      45.0,       0.0);
    ( 372265.9, 3769520.0,      44.8,       0.0);          ( 372290.9, 3769520.0,      44.4,       0.0);
    ( 372315.9, 3769520.0,      44.3,       0.0);          ( 372340.9, 3769520.0,      43.9,       0.0);
    ( 372365.9, 3769520.0,      43.8,       0.0);          ( 371340.9, 3769545.0,      57.8,       0.0);
    ( 371365.9, 3769545.0,      57.5,       0.0);          ( 371390.9, 3769545.0,      57.1,       0.0);
    ( 371415.9, 3769545.0,      56.8,       0.0);          ( 371440.9, 3769545.0,      56.3,       0.0);
    ( 371465.9, 3769545.0,      56.0,       0.0);          ( 371490.9, 3769545.0,      55.6,       0.0);
    ( 371515.9, 3769545.0,      55.3,       0.0);          ( 371540.9, 3769545.0,      54.9,       0.0);
    ( 371565.9, 3769545.0,      54.8,       0.0);          ( 371590.9, 3769545.0,      54.3,       0.0);
```

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    ( 371615.9, 3769545.0,      54.0,       0.0);         ( 371640.9, 3769545.0,      53.6,       0.0);
    ( 371665.9, 3769545.0,      53.4,       0.0);         ( 371690.9, 3769545.0,      53.0,       0.0);
    ( 371715.9, 3769545.0,      52.7,       0.0);         ( 371740.9, 3769545.0,      52.2,       0.0);
    ( 371765.9, 3769545.0,      52.0,       0.0);         ( 371790.9, 3769545.0,      51.5,       0.0);
    ( 371815.9, 3769545.0,      51.2,       0.0);         ( 371840.9, 3769545.0,      50.7,       0.0);
    ( 371865.9, 3769545.0,      50.5,       0.0);         ( 371890.9, 3769545.0,      50.0,       0.0);
    ( 371915.9, 3769545.0,      49.7,       0.0);         ( 371940.9, 3769545.0,      49.2,       0.0);
    ( 371965.9, 3769545.0,      49.0,       0.0);         ( 371990.9, 3769545.0,      48.5,       0.0);
    ( 372015.9, 3769545.0,      48.2,       0.0);         ( 372040.9, 3769545.0,      47.7,       0.0);
    ( 372065.9, 3769545.0,      47.5,       0.0);         ( 372090.9, 3769545.0,      47.0,       0.0);
    ( 372115.9, 3769545.0,      46.7,       0.0);         ( 372140.9, 3769545.0,      46.3,       0.0);
    ( 372165.9, 3769545.0,      46.0,       0.0);         ( 372190.9, 3769545.0,      45.6,       0.0);
    ( 372215.9, 3769545.0,      45.5,       0.0);         ( 372240.9, 3769545.0,      45.1,       0.0);
    ( 372265.9, 3769545.0,      45.0,       0.0);         ( 372290.9, 3769545.0,      44.6,       0.0);
    ( 372315.9, 3769545.0,      44.4,       0.0);         ( 372340.9, 3769545.0,      44.0,       0.0);
    ( 372365.9, 3769545.0,      43.9,       0.0);         ( 371340.9, 3769570.0,      57.9,       0.0);
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    ( 371415.9, 3769570.0,      57.0,       0.0);         ( 371440.9, 3769570.0,      56.5,       0.0);
    ( 371465.9, 3769570.0,      56.3,       0.0);         ( 371490.9, 3769570.0,      55.7,       0.0);
    ( 371515.9, 3769570.0,      55.5,       0.0);         ( 371540.9, 3769570.0,      55.0,       0.0);
    ( 371565.9, 3769570.0,      54.9,       0.0);         ( 371590.9, 3769570.0,      54.4,       0.0);
    ( 371615.9, 3769570.0,      54.1,       0.0);         ( 371640.9, 3769570.0,      53.7,       0.0);

    ( 371665.9, 3769570.0,      53.5,       0.0);         ( 371690.9, 3769570.0,      53.0,       0.0);
    ( 371715.9, 3769570.0,      52.8,       0.0);         ( 371740.9, 3769570.0,      52.2,       0.0);
    ( 371765.9, 3769570.0,      52.1,       0.0);         ( 371790.9, 3769570.0,      51.5,       0.0);
    ( 371815.9, 3769570.0,      51.3,       0.0);         ( 371840.9, 3769570.0,      50.7,       0.0);
    ( 371865.9, 3769570.0,      50.6,       0.0);         ( 371890.9, 3769570.0,      50.0,       0.0);
    ( 371915.9, 3769570.0,      49.8,       0.0);         ( 371940.9, 3769570.0,      49.2,       0.0);
    ( 371965.9, 3769570.0,      49.0,       0.0);         ( 371990.9, 3769570.0,      48.5,       0.0);
    ( 372015.9, 3769570.0,      48.3,       0.0);         ( 372040.9, 3769570.0,      47.7,       0.0);
    ( 372065.9, 3769570.0,      47.5,       0.0);         ( 372090.9, 3769570.0,      47.0,       0.0);
    ( 372115.9, 3769570.0,      46.8,       0.0);         ( 372140.9, 3769570.0,      46.2,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05
                                    ***                                                               ***
12:40:24
 **MODELOPTs:
PAGE  25
 CONC                    URBAN ELEV
HE>ZI


                                        *** DISCRETE CARTESIAN RECEPTORS ***
```

(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(372165.9,	3769570.0,	46.1,	0.0);	(372190.9,	3769570.0,	45.5,	0.0);
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(371515.9,	3769595.0,	55.8,	0.0);	(371540.9,	3769595.0,	55.3,	0.0);
(371565.9,	3769595.0,	55.1,	0.0);	(371590.9,	3769595.0,	54.6,	0.0);
(371615.9,	3769595.0,	54.4,	0.0);	(371640.9,	3769595.0,	54.0,	0.0);
(371665.9,	3769595.0,	53.6,	0.0);	(371690.9,	3769595.0,	53.1,	0.0);
(371715.9,	3769595.0,	53.0,	0.0);	(371740.9,	3769595.0,	52.5,	0.0);
(371765.9,	3769595.0,	52.2,	0.0);	(371790.9,	3769595.0,	51.7,	0.0);
(371815.9,	3769595.0,	51.5,	0.0);	(371840.9,	3769595.0,	51.0,	0.0);
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(371915.9,	3769595.0,	49.9,	0.0);	(371940.9,	3769595.0,	49.5,	0.0);
(371965.9,	3769595.0,	49.1,	0.0);	(371990.9,	3769595.0,	48.6,	0.0);
(372015.9,	3769595.0,	48.3,	0.0);	(372040.9,	3769595.0,	48.0,	0.0);
(372065.9,	3769595.0,	47.6,	0.0);	(372090.9,	3769595.0,	47.1,	0.0);
(372115.9,	3769595.0,	46.9,	0.0);	(372140.9,	3769595.0,	46.5,	0.0);
(372165.9,	3769595.0,	46.2,	0.0);	(372190.9,	3769595.0,	45.7,	0.0);
(372215.9,	3769595.0,	45.5,	0.0);	(372240.9,	3769595.0,	45.3,	0.0);
(372265.9,	3769595.0,	45.1,	0.0);	(372290.9,	3769595.0,	44.8,	0.0);
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(372240.6,	3768308.5,	39.1,	0.0);	(373073.1,	3769250.0,	38.1,	0.0);
(370888.2,	3768917.0,	72.3,	0.0);	(373073.8,	3769299.8,	38.3,	0.0);
(373076.3,	3768939.2,	36.7,	0.0);	(372601.4,	3768361.2,	34.0,	0.0);
(372301.8,	3768327.5,	38.3,	0.0);	(371747.2,	3768345.0,	49.2,	0.0);
(372389.2,	3769329.0,	43.0,	0.0);	(371296.7,	3768889.2,	58.9,	0.0);
(372960.0,	3768868.8,	36.7,	0.0);	(371735.9,	3768977.8,	51.1,	0.0);
(371738.7,	3768975.0,	51.1,	0.0);	(371763.7,	3768974.5,	50.7,	0.0);
(371788.6,	3768974.2,	50.5,	0.0);	(371791.5,	3768974.0,	50.3,	0.0);
(371794.1,	3768976.8,	50.3,	0.0);	(371794.5,	3769001.8,	50.2,	0.0);
(371794.6,	3769008.0,	50.2,	0.0);	(371769.6,	3769008.5,	50.7,	0.0);
(371744.6,	3769009.0,	51.0,	0.0);	(371736.5,	3769009.0,	51.1,	0.0);
(371736.0,	3768984.0,	51.1,	0.0);	(371735.9,	3768977.8,	51.1,	0.0);

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER OR 3*ZLB IN DISTANCE, OR WITHIN OPEN PIT SOURCE

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
SRC1	371740.9	3768970.0	27.90
SRC1	371765.9	3768970.0	16.69
SRC1	371790.9	3768970.0	32.07
SRC1	371740.9	3769020.0	40.35
SRC1	371735.9	3768977.8	28.86
SRC1	371738.7	3768975.0	27.29
SRC1	371763.7	3768974.5	12.00
SRC1	371788.6	3768974.2	28.04
SRC1	371791.5	3768974.0	30.72
SRC1	371794.1	3768976.8	32.20
SRC1	371794.5	3769001.8	34.66
SRC1	371794.6	3769008.0	37.91
SRC1	371769.6	3769008.5	22.86
SRC1	371744.6	3769009.0	29.31
SRC1	371736.5	3769009.0	35.10
SRC1	371736.0	3768984.0	27.49
SRC1	371735.9	3768977.8	28.86

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

1 1 1

*** THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

FILE: I:\Project\9000s\9195\Air Modeling\WESTLA.ASC
FORMAT: (4I2,2F9.4,F6.1,I2,2F7.1,f9.4,f10.1,f8.4,i4,f7.2)
SURFACE STATION NO.: 52158 UPPER AIR STATION NO.: 91919
NAME: UNKNOWN NAME: UNKNOWN
YEAR: 1981 YEAR: 1981

YR	MN	DY	HR	FLOW VECTOR	SPEED (M/S)	TEMP (K)	STAB CLASS	MIXING HEIGHT (M) RURAL	MIXING HEIGHT (M) URBAN	USTAR (M/S)	M-O LENGTH (M)	Z-0 (M)	IPCODE	PRATE (mm/HR)
81	01	01	01	67.3	1.00	285.9	7	387.1	152.0	0.0000	0.0	0.0000	0	0.00
81	01	01	02	79.9	1.00	286.5	7	397.2	152.0	0.0000	0.0	0.0000	0	0.00
81	01	01	03	62.5	1.00	285.9	6	407.3	152.0	0.0000	0.0	0.0000	0	0.00
81	01	01	04	98.5	1.00	285.9	5	417.4	152.0	0.0000	0.0	0.0000	0	0.00
81	01	01	05	354.0	1.00	285.4	4	427.4	427.4	0.0000	0.0	0.0000	0	0.00
81	01	01	06	139.5	1.00	283.7	5	437.5	152.0	0.0000	0.0	0.0000	0	0.00
81	01	01	07	94.5	1.00	283.7	6	447.5	152.0	0.0000	0.0	0.0000	0	0.00
81	01	01	08	112.2	1.00	284.3	5	70.1	201.5	0.0000	0.0	0.0000	0	0.00
81	01	01	09	186.5	1.00	287.0	4	144.7	254.3	0.0000	0.0	0.0000	0	0.00
81	01	01	10	256.6	1.00	291.5	3	219.4	307.0	0.0000	0.0	0.0000	0	0.00
81	01	01	11	314.1	1.00	294.8	2	294.0	359.8	0.0000	0.0	0.0000	0	0.00
81	01	01	12	35.6	2.68	290.9	3	368.7	412.5	0.0000	0.0	0.0000	0	0.00
81	01	01	13	64.7	2.24	289.8	3	443.3	465.3	0.0000	0.0	0.0000	0	0.00
81	01	01	14	34.2	2.24	290.4	3	518.0	518.0	0.0000	0.0	0.0000	0	0.00
81	01	01	15	44.8	1.34	290.4	2	518.0	518.0	0.0000	0.0	0.0000	0	0.00

81 01 01 16	53.2	1.79	289.3	3	518.0	518.0	0.0000	0.0	0.0000	0	0.00
81 01 01 17	42.6	0.00	288.1	4	518.0	518.0	0.0000	0.0	0.0000	0	0.00
81 01 01 18	30.1	1.00	287.6	5	518.0	468.5	0.0000	0.0	0.0000	0	0.00
81 01 01 19	20.5	0.00	287.0	6	518.0	425.9	0.0000	0.0	0.0000	0	0.00
81 01 01 20	55.7	1.00	287.0	7	518.0	383.4	0.0000	0.0	0.0000	0	0.00
81 01 01 21	43.6	0.00	287.6	7	518.0	340.8	0.0000	0.0	0.0000	0	0.00
81 01 01 22	137.0	1.00	287.0	7	518.0	298.2	0.0000	0.0	0.0000	0	0.00
81 01 01 23	90.7	1.00	286.5	7	518.0	255.6	0.0000	0.0	0.0000	0	0.00
81 01 01 24	67.2	1.00	286.5	6	518.0	213.0	0.0000	0.0	0.0000	0	0.00

*** NOTES: STABILITY CLASS 1=A, 2=B, 3=C, 4=D, 5=E AND 6=F.
FLOW VECTOR IS DIRECTION TOWARD WHICH WIND IS BLOWING.

CONC URBAN ELEV
HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC1 , SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371340.91	3768570.00	0.93089	371365.91	3768570.00	0.94685
371390.91	3768570.00	0.95185	371415.91	3768570.00	0.95623
371440.91	3768570.00	0.94348	371465.91	3768570.00	0.92227
371490.91	3768570.00	0.88155	371515.91	3768570.00	0.81948
371540.91	3768570.00	0.73428	371565.91	3768570.00	0.64464
371590.91	3768570.00	0.57651	371615.91	3768570.00	0.58768
371640.91	3768570.00	0.72838	371665.91	3768570.00	1.02833
371690.91	3768570.00	1.42800	371715.91	3768570.00	1.83940
371740.91	3768570.00	2.17063	371765.91	3768570.00	2.40894
371790.91	3768570.00	2.56071	371815.91	3768570.00	2.66423

371840.91	3768570.00	2.73954	371865.91	3768570.00	2.84163
371890.91	3768570.00	2.94818	371915.91	3768570.00	3.05042
371940.91	3768570.00	3.09448	371965.91	3768570.00	3.16173
371990.91	3768570.00	3.24084	372015.91	3768570.00	3.40815
372040.91	3768570.00	3.60538	372065.91	3768570.00	3.84998
372090.91	3768570.00	4.05666	372115.91	3768570.00	4.22618
372140.91	3768570.00	4.29568	372165.91	3768570.00	4.29818
372190.91	3768570.00	4.19105	372215.91	3768570.00	4.04261
372240.91	3768570.00	3.82999	372265.91	3768570.00	3.61029
372290.91	3768570.00	3.37287	372315.91	3768570.00	3.16335
372340.91	3768570.00	2.95702	372365.91	3768570.00	2.78484
371340.91	3768595.00	1.00490	371365.91	3768595.00	1.02012
371390.91	3768595.00	1.03164	371415.91	3768595.00	1.04282
371440.91	3768595.00	1.04211	371465.91	3768595.00	1.03031
371490.91	3768595.00	0.99925	371515.91	3768595.00	0.94406
371540.91	3768595.00	0.85956	371565.91	3768595.00	0.75635
371590.91	3768595.00	0.66094	371615.91	3768595.00	0.62972
371640.91	3768595.00	0.73560	371665.91	3768595.00	1.03159
371690.91	3768595.00	1.47297	371715.91	3768595.00	1.95710
371740.91	3768595.00	2.35335	371765.91	3768595.00	2.63945
371790.91	3768595.00	2.81851	371815.91	3768595.00	2.93286
371840.91	3768595.00	3.02180	371865.91	3768595.00	3.14532
371890.91	3768595.00	3.27095	371915.91	3768595.00	3.38010
371940.91	3768595.00	3.43297	371965.91	3768595.00	3.52171
371990.91	3768595.00	3.64985	372015.91	3768595.00	3.87431
372040.91	3768595.00	4.12144	372065.91	3768595.00	4.39710
372090.91	3768595.00	4.59559	372115.91	3768595.00	4.71890
372140.91	3768595.00	4.70950	372165.91	3768595.00	4.61509
372190.91	3768595.00	4.41855	372215.91	3768595.00	4.18252
372240.91	3768595.00	3.91087	372265.91	3768595.00	3.65516

**MODELOPTs:

CONC URBAN ELEV HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC1 , SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372290.91	3768595.00	3.39601	372315.91	3768595.00	3.17749
372340.91	3768595.00	2.97577	372365.91	3768595.00	2.80746
371340.91	3768620.00	1.09692	371365.91	3768620.00	1.10856
371390.91	3768620.00	1.11766	371415.91	3768620.00	1.13672
371440.91	3768620.00	1.14453	371465.91	3768620.00	1.14770
371490.91	3768620.00	1.12756	371515.91	3768620.00	1.08456
371540.91	3768620.00	1.00635	371565.91	3768620.00	0.89721
371590.91	3768620.00	0.77600	371615.91	3768620.00	0.69919
371640.91	3768620.00	0.75270	371665.91	3768620.00	1.02736
371690.91	3768620.00	1.51306	371715.91	3768620.00	2.08000
371740.91	3768620.00	2.55788	371765.91	3768620.00	2.90535
371790.91	3768620.00	3.11195	371815.91	3768620.00	3.24365
371840.91	3768620.00	3.35196	371865.91	3768620.00	3.49879
371890.91	3768620.00	3.64570	371915.91	3768620.00	3.75531
371940.91	3768620.00	3.81513	371965.91	3768620.00	3.95846
371990.91	3768620.00	4.15393	372015.91	3768620.00	4.45455
372040.91	3768620.00	4.74990	372065.91	3768620.00	5.03799
372090.91	3768620.00	5.17810	372115.91	3768620.00	5.19948
372140.91	3768620.00	5.07307	372165.91	3768620.00	4.86750
372190.91	3768620.00	4.56250	372215.91	3768620.00	4.27024
372240.91	3768620.00	3.95419	372265.91	3768620.00	3.67856
372290.91	3768620.00	3.41336	372315.91	3768620.00	3.20166
372340.91	3768620.00	3.00447	372365.91	3768620.00	2.84297
371340.91	3768645.00	1.22032	371365.91	3768645.00	1.22027
371390.91	3768645.00	1.22419	371415.91	3768645.00	1.24118
371440.91	3768645.00	1.25696	371465.91	3768645.00	1.27331
371490.91	3768645.00	1.27080	371515.91	3768645.00	1.24328
371540.91	3768645.00	1.17706	371565.91	3768645.00	1.07066
371590.91	3768645.00	0.93050	371615.91	3768645.00	0.80595
371640.91	3768645.00	0.79319	371665.91	3768645.00	1.02672
371690.91	3768645.00	1.54530	371715.91	3768645.00	2.21410
371740.91	3768645.00	2.80151	371765.91	3768645.00	3.21899
371790.91	3768645.00	3.46277	371815.91	3768645.00	3.61466
371840.91	3768645.00	3.74661	371865.91	3768645.00	3.92834
371890.91	3768645.00	4.08798	371915.91	3768645.00	4.20632
371940.91	3768645.00	4.32039	371965.91	3768645.00	4.54330
371990.91	3768645.00	4.83492	372015.91	3768645.00	5.21096
372040.91	3768645.00	5.54375	372065.91	3768645.00	5.75164
372090.91	3768645.00	5.76633	372115.91	3768645.00	5.65153

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC1 , SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372190.91	3768645.00	4.66749	372215.91	3768645.00	4.31856
372240.91	3768645.00	3.98447	372265.91	3768645.00	3.70942
372290.91	3768645.00	3.45319	372315.91	3768645.00	3.24294
372340.91	3768645.00	3.05525	372365.91	3768645.00	2.89867
371340.91	3768670.00	1.38570	371365.91	3768670.00	1.37201
371390.91	3768670.00	1.36100	371415.91	3768670.00	1.37078
371440.91	3768670.00	1.38518	371465.91	3768670.00	1.41376
371490.91	3768670.00	1.42551	371515.91	3768670.00	1.42091
371540.91	3768670.00	1.37245	371565.91	3768670.00	1.27848
371590.91	3768670.00	1.12958	371615.91	3768670.00	0.96014
371640.91	3768670.00	0.87199	371665.91	3768670.00	1.03664
371690.91	3768670.00	1.56820	371715.91	3768670.00	2.35153
371740.91	3768670.00	3.07621	371765.91	3768670.00	3.59280
371790.91	3768670.00	3.87484	371815.91	3768670.00	4.06360
371840.91	3768670.00	4.22468	371865.91	3768670.00	4.45127
371890.91	3768670.00	4.60671	371915.91	3768670.00	4.76824
371940.91	3768670.00	4.94797	371965.91	3768670.00	5.30041
371990.91	3768670.00	5.68773	372015.91	3768670.00	6.11805
372040.91	3768670.00	6.37275	372065.91	3768670.00	6.46415
372090.91	3768670.00	6.29685	372115.91	3768670.00	5.99785
372140.91	3768670.00	5.56604	372165.91	3768670.00	5.14496
372190.91	3768670.00	4.70393	372215.91	3768670.00	4.35445
372240.91	3768670.00	4.02042	372265.91	3768670.00	3.75356
372290.91	3768670.00	3.50103	372315.91	3768670.00	3.30816

372340.91	3768670.00	3.11840	372365.91	3768670.00	2.96295
371340.91	3768695.00	1.60509	371365.91	3768695.00	1.57800
371390.91	3768695.00	1.55155	371415.91	3768695.00	1.54423
371440.91	3768695.00	1.55079	371465.91	3768695.00	1.57488
371490.91	3768695.00	1.60193	371515.91	3768695.00	1.61742
371540.91	3768695.00	1.59450	371565.91	3768695.00	1.52269
371590.91	3768695.00	1.37716	371615.91	3768695.00	1.18104
371640.91	3768695.00	1.00858	371665.91	3768695.00	1.06983
371690.91	3768695.00	1.57837	371715.91	3768695.00	2.48352
371740.91	3768695.00	3.40037	371765.91	3768695.00	4.04845
371790.91	3768695.00	4.39724	371815.91	3768695.00	4.61029
371840.91	3768695.00	4.82203	371865.91	3768695.00	5.09042
371890.91	3768695.00	5.27831	371915.91	3768695.00	5.48993
371940.91	3768695.00	5.79312	371965.91	3768695.00	6.29857
371990.91	3768695.00	6.78593	372015.91	3768695.00	7.18312
372040.91	3768695.00	7.28066	372065.91	3768695.00	7.14099

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC1 , SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372090.91	3768695.00	6.73072	372115.91	3768695.00	6.24172
372140.91	3768695.00	5.68993	372165.91	3768695.00	5.20285
372190.91	3768695.00	4.76336	372215.91	3768695.00	4.40636
372240.91	3768695.00	4.08975	372265.91	3768695.00	3.82638
372290.91	3768695.00	3.58601	372315.91	3768695.00	3.38452
372340.91	3768695.00	3.19480	372365.91	3768695.00	3.02786
371340.91	3768720.00	1.87673	371365.91	3768720.00	1.85177
371390.91	3768720.00	1.81326	371415.91	3768720.00	1.78717
371440.91	3768720.00	1.76747	371465.91	3768720.00	1.77653

371490.91	3768720.00	1.79986	371515.91	3768720.00	1.83603
371540.91	3768720.00	1.83991	371565.91	3768720.00	1.80249
371590.91	3768720.00	1.67931	371615.91	3768720.00	1.47680
371640.91	3768720.00	1.22879	371665.91	3768720.00	1.15212
371690.91	3768720.00	1.58095	371715.91	3768720.00	2.61729
371740.91	3768720.00	3.76871	371765.91	3768720.00	4.60452
371790.91	3768720.00	5.03295	371815.91	3768720.00	5.30062
371840.91	3768720.00	5.57299	371865.91	3768720.00	5.87970
371890.91	3768720.00	6.08608	371915.91	3768720.00	6.42688
371940.91	3768720.00	6.91600	371965.91	3768720.00	7.60842
371990.91	3768720.00	8.08071	372015.91	3768720.00	8.30182
372040.91	3768720.00	8.10861	372065.91	3768720.00	7.64362
372090.91	3768720.00	6.99697	372115.91	3768720.00	6.35341
372140.91	3768720.00	5.74564	372165.91	3768720.00	5.24670
372190.91	3768720.00	4.80994	372215.91	3768720.00	4.48155
372240.91	3768720.00	4.16599	372265.91	3768720.00	3.91411
372290.91	3768720.00	3.66174	372315.91	3768720.00	3.46411
372340.91	3768720.00	3.26066	372365.91	3768720.00	3.08953
371340.91	3768745.00	2.19808	371365.91	3768745.00	2.18993
371390.91	3768745.00	2.15929	371415.91	3768745.00	2.12353
371440.91	3768745.00	2.08224	371465.91	3768745.00	2.05858
371490.91	3768745.00	2.05886	371515.91	3768745.00	2.08966
371540.91	3768745.00	2.12039	371565.91	3768745.00	2.12301
371590.91	3768745.00	2.04844	371615.91	3768745.00	1.86017
371640.91	3768745.00	1.55830	371665.91	3768745.00	1.32671
371690.91	3768745.00	1.59591	371715.91	3768745.00	2.72832
371740.91	3768745.00	4.22530	371765.91	3768745.00	5.31137
371790.91	3768745.00	5.84477	371815.91	3768745.00	6.16128
371840.91	3768745.00	6.53407	371865.91	3768745.00	6.87263
371890.91	3768745.00	7.16163	371915.91	3768745.00	7.73592
371940.91	3768745.00	8.51749	371965.91	3768745.00	9.26063

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC1 , SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371990.91	3768745.00	9.53597	372015.91	3768745.00	9.39693
372040.91	3768745.00	8.74495	372065.91	3768745.00	7.97897
372090.91	3768745.00	7.12909	372115.91	3768745.00	6.43785
372140.91	3768745.00	5.80995	372165.91	3768745.00	5.34020
372190.91	3768745.00	4.92901	372215.91	3768745.00	4.59131
372240.91	3768745.00	4.28178	372265.91	3768745.00	4.01521
372290.91	3768745.00	3.76225	372315.91	3768745.00	3.53471
372340.91	3768745.00	3.32342	372365.91	3768745.00	3.14681
371340.91	3768770.00	2.54997	371365.91	3768770.00	2.57892
371390.91	3768770.00	2.57843	371415.91	3768770.00	2.56291
371440.91	3768770.00	2.51919	371465.91	3768770.00	2.46878
371490.91	3768770.00	2.42660	371515.91	3768770.00	2.42350
371540.91	3768770.00	2.44776	371565.91	3768770.00	2.49128
371590.91	3768770.00	2.47355	371615.91	3768770.00	2.34085
371640.91	3768770.00	2.03427	371665.91	3768770.00	1.64977
371690.91	3768770.00	1.66293	371715.91	3768770.00	2.81509
371740.91	3768770.00	4.73027	371765.91	3768770.00	6.19987
371790.91	3768770.00	6.89532	371815.91	3768770.00	7.28286
371840.91	3768770.00	7.74639	371865.91	3768770.00	8.15365
371890.91	3768770.00	8.63142	371915.91	3768770.00	9.62694
371940.91	3768770.00	10.59089	371965.91	3768770.00	11.18876
371990.91	3768770.00	10.90005	372015.91	3768770.00	10.19820
372040.91	3768770.00	9.08313	372065.91	3768770.00	8.11810
372090.91	3768770.00	7.19437	372115.91	3768770.00	6.52971
372140.91	3768770.00	5.91278	372165.91	3768770.00	5.47317
372190.91	3768770.00	5.04941	372215.91	3768770.00	4.70965
372240.91	3768770.00	4.38034	372265.91	3768770.00	4.10171
372290.91	3768770.00	3.83137	372315.91	3768770.00	3.61283
372340.91	3768770.00	3.39703	372365.91	3768770.00	3.22371
371340.91	3768795.00	2.91641	371365.91	3768795.00	2.99144
371390.91	3768795.00	3.05314	371415.91	3768795.00	3.08772
371440.91	3768795.00	3.08360	371465.91	3768795.00	3.04666
371490.91	3768795.00	2.98283	371515.91	3768795.00	2.92451
371540.91	3768795.00	2.89745	371565.91	3768795.00	2.93139
371590.91	3768795.00	2.97177	371615.91	3768795.00	2.92374
371640.91	3768795.00	2.68134	371665.91	3768795.00	2.19958
371690.91	3768795.00	1.86962	371715.91	3768795.00	2.85519
371740.91	3768795.00	5.31822	371765.91	3768795.00	7.37742

371790.91	3768795.00	8.26440	371815.91	3768795.00	8.77284
371840.91	3768795.00	9.38983	371865.91	3768795.00	9.90935

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC1 , SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371890.91	3768795.00	10.87002	371915.91	3768795.00	12.31228
371940.91	3768795.00	13.21463	371965.91	3768795.00	13.09090
371990.91	3768795.00	11.98877	372015.91	3768795.00	10.63344
372040.91	3768795.00	9.30206	372065.91	3768795.00	8.22842
372090.91	3768795.00	7.36452	372115.91	3768795.00	6.68946
372140.91	3768795.00	6.11305	372165.91	3768795.00	5.62885
372190.91	3768795.00	5.19621	372215.91	3768795.00	4.82538
372240.91	3768795.00	4.48672	372265.91	3768795.00	4.19957
372290.91	3768795.00	3.94369	372315.91	3768795.00	3.72780
372340.91	3768795.00	3.52987	372365.91	3768795.00	3.37260
371340.91	3768820.00	3.29402	371365.91	3768820.00	3.42313
371390.91	3768820.00	3.54569	371415.91	3768820.00	3.66434
371440.91	3768820.00	3.74671	371465.91	3768820.00	3.78882
371490.91	3768820.00	3.76413	371515.91	3768820.00	3.69707
371540.91	3768820.00	3.59827	371565.91	3768820.00	3.55400
371590.91	3768820.00	3.57821	371615.91	3768820.00	3.62119
371640.91	3768820.00	3.50126	371665.91	3768820.00	3.05108
371690.91	3768820.00	2.35917	371715.91	3768820.00	2.89144
371740.91	3768820.00	5.93535	371765.91	3768820.00	8.91722
371790.91	3768820.00	10.08681	371815.91	3768820.00	10.82715
371840.91	3768820.00	11.56649	371865.91	3768820.00	12.53477
371890.91	3768820.00	14.26838	371915.91	3768820.00	15.93797
371940.91	3768820.00	15.87550	371965.91	3768820.00	14.50518

371990.91	3768820.00	12.51486	372015.91	3768820.00	10.83191
372040.91	3768820.00	9.43767	372065.91	3768820.00	8.43415
372090.91	3768820.00	7.57603	372115.91	3768820.00	6.90802
372140.91	3768820.00	6.28843	372165.91	3768820.00	5.78888
372190.91	3768820.00	5.32499	372215.91	3768820.00	4.96601
372240.91	3768820.00	4.63813	372265.91	3768820.00	4.38067
372290.91	3768820.00	4.13917	372315.91	3768820.00	3.95405
372340.91	3768820.00	3.77830	372365.91	3768820.00	3.64221
371340.91	3768845.00	3.72181	371365.91	3768845.00	3.88912
371390.91	3768845.00	4.05653	371415.91	3768845.00	4.26085
371440.91	3768845.00	4.45954	371465.91	3768845.00	4.63119
371490.91	3768845.00	4.74768	371515.91	3768845.00	4.79144
371540.91	3768845.00	4.72419	371565.91	3768845.00	4.59236
371590.91	3768845.00	4.48312	371615.91	3768845.00	4.49811
371640.91	3768845.00	4.52198	371665.91	3768845.00	4.25881
371690.91	3768845.00	3.37980	371715.91	3768845.00	3.03450
371740.91	3768845.00	6.51078	371765.91	3768845.00	10.93382

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC1 , SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371790.91	3768845.00	12.53998	371815.91	3768845.00	13.72575
371840.91	3768845.00	14.71454	371865.91	3768845.00	16.84423
371890.91	3768845.00	19.43866	371915.91	3768845.00	19.94376
371940.91	3768845.00	17.86519	371965.91	3768845.00	15.12887
371990.91	3768845.00	12.73840	372015.91	3768845.00	11.06339
372040.91	3768845.00	9.76752	372065.91	3768845.00	8.74101
372090.91	3768845.00	7.86062	372115.91	3768845.00	7.13538
372140.91	3768845.00	6.50930	372165.91	3768845.00	6.00300

372190.91	3768845.00	5.57909	372215.91	3768845.00	5.25216
372240.91	3768845.00	4.96674	372265.91	3768845.00	4.74180
372290.91	3768845.00	4.53371	372315.91	3768845.00	4.37293
372340.91	3768845.00	4.21564	372365.91	3768845.00	4.08379
371340.91	3768870.00	4.25158	371365.91	3768870.00	4.46675
371390.91	3768870.00	4.67734	371415.91	3768870.00	4.94329
371440.91	3768870.00	5.22801	371465.91	3768870.00	5.54458
371490.91	3768870.00	5.84818	371515.91	3768870.00	6.12861
371540.91	3768870.00	6.27568	371565.91	3768870.00	6.30109
371590.91	3768870.00	6.10778	371615.91	3768870.00	5.91123
371640.91	3768870.00	5.83638	371665.91	3768870.00	5.87339
371690.91	3768870.00	5.13853	371715.91	3768870.00	3.78284
371740.91	3768870.00	6.87064	371765.91	3768870.00	13.75570
371790.91	3768870.00	16.02294	371815.91	3768870.00	17.95490
371840.91	3768870.00	19.90320	371865.91	3768870.00	24.18891
371890.91	3768870.00	25.55284	371915.91	3768870.00	22.77877
371940.91	3768870.00	18.57820	371965.91	3768870.00	15.49954
371990.91	3768870.00	13.09204	372015.91	3768870.00	11.54148
372040.91	3768870.00	10.15484	372065.91	3768870.00	9.10900
372090.91	3768870.00	8.18800	372115.91	3768870.00	7.50964
372140.91	3768870.00	6.92336	372165.91	3768870.00	6.49791
372190.91	3768870.00	6.11708	372215.91	3768870.00	5.84613
372240.91	3768870.00	5.58826	372265.91	3768870.00	5.38716
372290.91	3768870.00	5.17063	372315.91	3768870.00	5.00947
372340.91	3768870.00	4.83329	372365.91	3768870.00	4.67949
371340.91	3768895.00	4.92691	371365.91	3768895.00	5.19852
371390.91	3768895.00	5.47637	371415.91	3768895.00	5.83046
371440.91	3768895.00	6.21309	371465.91	3768895.00	6.64781
371490.91	3768895.00	7.11634	371515.91	3768895.00	7.64115
371540.91	3768895.00	8.14481	371565.91	3768895.00	8.58243
371590.91	3768895.00	8.78200	371615.91	3768895.00	8.63093
371640.91	3768895.00	8.17734	371665.91	3768895.00	8.02378

**MODELOPTs:

CONC URBAN ELEV HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC1 , SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371690.91	3768895.00	7.81544	371715.91	3768895.00	6.02525
371740.91	3768895.00	6.82885	371765.91	3768895.00	17.62902
371790.91	3768895.00	21.32904	371815.91	3768895.00	24.29099
371840.91	3768895.00	29.72475	371865.91	3768895.00	34.34058
371890.91	3768895.00	29.81433	371915.91	3768895.00	23.71038
371940.91	3768895.00	19.26280	371965.91	3768895.00	16.23585
371990.91	3768895.00	13.82750	372015.91	3768895.00	12.16235
372040.91	3768895.00	10.74368	372065.91	3768895.00	9.80112
372090.91	3768895.00	9.02400	372115.91	3768895.00	8.43404
372140.91	3768895.00	7.93588	372165.91	3768895.00	7.53223
372190.91	3768895.00	7.16827	372215.91	3768895.00	6.85288
372240.91	3768895.00	6.55267	372265.91	3768895.00	6.30165
372290.91	3768895.00	6.04344	372315.91	3768895.00	5.79699
372340.91	3768895.00	5.56641	372365.91	3768895.00	5.35021
371340.91	3768920.00	5.62497	371365.91	3768920.00	6.02084
371390.91	3768920.00	6.42906	371415.91	3768920.00	6.93380
371440.91	3768920.00	7.46769	371465.91	3768920.00	8.08575
371490.91	3768920.00	8.77140	371515.91	3768920.00	9.53374
371540.91	3768920.00	10.31788	371565.91	3768920.00	11.27306
371590.91	3768920.00	12.16562	371615.91	3768920.00	12.99918
371640.91	3768920.00	13.16276	371665.91	3768920.00	12.43199
371690.91	3768920.00	11.60714	371715.91	3768920.00	10.83955
371740.91	3768920.00	7.24322	371765.91	3768920.00	22.50824
371790.91	3768920.00	28.66005	371815.91	3768920.00	36.08935
371840.91	3768920.00	46.29927	371865.91	3768920.00	40.17496
371890.91	3768920.00	30.71911	371915.91	3768920.00	24.85891
371940.91	3768920.00	20.30158	371965.91	3768920.00	17.45781
371990.91	3768920.00	15.09278	372015.91	3768920.00	13.64889
372040.91	3768920.00	12.46717	372065.91	3768920.00	11.68863
372090.91	3768920.00	10.91317	372115.91	3768920.00	10.29181
372140.91	3768920.00	9.65409	372165.91	3768920.00	9.13134
372190.91	3768920.00	8.59029	372215.91	3768920.00	8.14800
372240.91	3768920.00	7.70384	372265.91	3768920.00	7.32897
372290.91	3768920.00	6.94851	372315.91	3768920.00	6.61393
372340.91	3768920.00	6.27393	372365.91	3768920.00	5.98915

371340.91	3768945.00	6.22037	371365.91	3768945.00	6.73690
371390.91	3768945.00	7.33126	371415.91	3768945.00	8.03097
371440.91	3768945.00	8.82126	371465.91	3768945.00	9.75110
371490.91	3768945.00	10.80546	371515.91	3768945.00	12.00839
371540.91	3768945.00	13.35236	371565.91	3768945.00	14.89402

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC1 , SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371590.91	3768945.00	16.63349	371615.91	3768945.00	18.64218
371640.91	3768945.00	20.71275	371665.91	3768945.00	22.42232
371690.91	3768945.00	21.63246	371715.91	3768945.00	18.83036
371740.91	3768945.00	12.51892	371765.91	3768945.00	25.90820
371790.91	3768945.00	38.15025	371815.91	3768945.00	62.39871
371840.91	3768945.00	53.79226	371865.91	3768945.00	40.95763
371890.91	3768945.00	32.39262	371915.91	3768945.00	27.48469
371940.91	3768945.00	23.84837	371965.91	3768945.00	21.37260
371990.91	3768945.00	19.41177	372015.91	3768945.00	17.73698
372040.91	3768945.00	16.24931	372065.91	3768945.00	14.95902
372090.91	3768945.00	13.75085	372115.91	3768945.00	12.71784
372140.91	3768945.00	11.73936	372165.91	3768945.00	10.88890
372190.91	3768945.00	10.08368	372215.91	3768945.00	9.42220
372240.91	3768945.00	8.78151	372265.91	3768945.00	8.24170
372290.91	3768945.00	7.74098	372315.91	3768945.00	7.30226
372340.91	3768945.00	6.88427	372365.91	3768945.00	6.51401
371340.91	3768970.00	6.54824	371365.91	3768970.00	7.17003
371390.91	3768970.00	7.86879	371415.91	3768970.00	8.73507
371440.91	3768970.00	9.73897	371465.91	3768970.00	10.96728

371490.91	3768970.00	12.38584	371515.91	3768970.00	14.20992
371540.91	3768970.00	16.35332	371565.91	3768970.00	19.06949
371590.91	3768970.00	22.46123	371615.91	3768970.00	26.82666
371640.91	3768970.00	31.85172	371665.91	3768970.00	38.00045
371690.91	3768970.00	43.99534	371715.91	3768970.00	46.39324
371740.91	3768970.00	28.25273	371765.91	3768970.00	17.21946
371790.91	3768970.00	45.20101	371815.91	3768970.00	64.84021
371840.91	3768970.00	56.14205	371865.91	3768970.00	50.81498
371890.91	3768970.00	45.37946	371915.91	3768970.00	40.46083
371940.91	3768970.00	35.07427	371965.91	3768970.00	30.65673
371990.91	3768970.00	26.54192	372015.91	3768970.00	23.29412
372040.91	3768970.00	20.47745	372065.91	3768970.00	18.28951
372090.91	3768970.00	16.36138	372115.91	3768970.00	14.80271
372140.91	3768970.00	13.36952	372165.91	3768970.00	12.24253
372190.91	3768970.00	11.19726	372215.91	3768970.00	10.33999
372240.91	3768970.00	9.53055	372265.91	3768970.00	8.90826
372290.91	3768970.00	8.29217	372315.91	3768970.00	7.77740
372340.91	3768970.00	7.29064	372365.91	3768970.00	6.86971
371340.91	3768995.00	6.69366	371365.91	3768995.00	7.35077
371390.91	3768995.00	8.10504	371415.91	3768995.00	9.02374
371440.91	3768995.00	10.11171	371465.91	3768995.00	11.44523

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC1 , SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371490.91	3768995.00	13.04906	371515.91	3768995.00	15.10735
371540.91	3768995.00	17.71352	371565.91	3768995.00	21.11482
371590.91	3768995.00	25.66879	371615.91	3768995.00	31.90142
371640.91	3768995.00	40.87073	371665.91	3768995.00	54.39289

371690.91	3768995.00	74.66640	371715.91	3768995.00	104.09119
371815.91	3768995.00	120.17422	371840.91	3768995.00	111.22540
371865.91	3768995.00	90.48116	371890.91	3768995.00	71.14658
371915.91	3768995.00	56.70711	371940.91	3768995.00	45.57822
371965.91	3768995.00	37.86528	371990.91	3768995.00	31.43295
372015.91	3768995.00	26.87211	372040.91	3768995.00	23.16746
372065.91	3768995.00	20.25733	372090.91	3768995.00	17.90176
372115.91	3768995.00	16.04994	372140.91	3768995.00	14.40675
372165.91	3768995.00	13.06989	372190.91	3768995.00	11.88746
372215.91	3768995.00	10.90630	372240.91	3768995.00	10.03195
372265.91	3768995.00	9.29439	372290.91	3768995.00	8.64225
372315.91	3768995.00	8.07372	372340.91	3768995.00	7.54735
372365.91	3768995.00	7.09847	371340.91	3769020.00	6.75976
371365.91	3769020.00	7.43350	371390.91	3769020.00	8.21190
371415.91	3769020.00	9.14777	371440.91	3769020.00	10.24341
371465.91	3769020.00	11.62240	371490.91	3769020.00	13.25776
371515.91	3769020.00	15.38189	371540.91	3769020.00	18.03804
371565.91	3769020.00	21.56430	371590.91	3769020.00	26.18442
371615.91	3769020.00	32.69909	371640.91	3769020.00	41.54012
371665.91	3769020.00	54.66934	371690.91	3769020.00	72.22304
371715.91	3769020.00	95.94818	371740.91	3769020.00	112.27837
371765.91	3769020.00	114.77590	371790.91	3769020.00	405.03275
371815.91	3769020.00	246.09529	371840.91	3769020.00	146.16705
371865.91	3769020.00	105.06672	371890.91	3769020.00	79.11276
371915.91	3769020.00	61.89280	371940.91	3769020.00	48.85741
371965.91	3769020.00	40.44575	371990.91	3769020.00	33.30298
372015.91	3769020.00	28.33922	372040.91	3769020.00	24.24550
372065.91	3769020.00	21.23226	372090.91	3769020.00	18.63350
372115.91	3769020.00	16.63589	372140.91	3769020.00	14.87331
372165.91	3769020.00	13.46876	372190.91	3769020.00	12.20009
372215.91	3769020.00	11.20911	372240.91	3769020.00	10.26171
372265.91	3769020.00	9.51822	372290.91	3769020.00	8.82140
372315.91	3769020.00	8.24087	372340.91	3769020.00	7.69234
372365.91	3769020.00	7.22713	371340.91	3769045.00	6.82095
371365.91	3769045.00	7.49223	371390.91	3769045.00	8.27315
371415.91	3769045.00	9.19403	371440.91	3769045.00	10.28548

**MODELOPTs:

CONC URBAN ELEV HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC1 , SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371465.91	3769045.00	11.59169	371490.91	3769045.00	13.17024
371515.91	3769045.00	15.17669	371540.91	3769045.00	17.57728
371565.91	3769045.00	20.62757	371590.91	3769045.00	24.38153
371615.91	3769045.00	29.16654	371640.91	3769045.00	35.25999
371665.91	3769045.00	44.23962	371690.91	3769045.00	57.33444
371715.91	3769045.00	69.22439	371740.91	3769045.00	78.96501
371765.91	3769045.00	122.26231	371790.91	3769045.00	196.97701
371815.91	3769045.00	248.54416	371840.91	3769045.00	182.40901
371865.91	3769045.00	122.35310	371890.91	3769045.00	85.24762
371915.91	3769045.00	64.29373	371940.91	3769045.00	50.31322
371965.91	3769045.00	40.98489	371990.91	3769045.00	33.98533
372015.91	3769045.00	28.71972	372040.91	3769045.00	24.64724
372065.91	3769045.00	21.54688	372090.91	3769045.00	18.93522
372115.91	3769045.00	16.88294	372140.91	3769045.00	15.13747
372165.91	3769045.00	13.68479	372190.91	3769045.00	12.42259
372215.91	3769045.00	11.37028	372240.91	3769045.00	10.43157
372265.91	3769045.00	9.64379	372290.91	3769045.00	8.94962
372315.91	3769045.00	8.36109	372340.91	3769045.00	7.79318
372365.91	3769045.00	7.30768	371340.91	3769070.00	6.76362
371365.91	3769070.00	7.40765	371390.91	3769070.00	8.12103
371415.91	3769070.00	8.96162	371440.91	3769070.00	9.91649
371465.91	3769070.00	11.04192	371490.91	3769070.00	12.32881
371515.91	3769070.00	13.92808	371540.91	3769070.00	15.76753
371565.91	3769070.00	18.05993	371590.91	3769070.00	20.92917
371615.91	3769070.00	24.99024	371640.91	3769070.00	30.36062
371665.91	3769070.00	36.84199	371690.91	3769070.00	42.06023
371715.91	3769070.00	50.77824	371740.91	3769070.00	58.49372
371765.91	3769070.00	93.26080	371790.91	3769070.00	112.04544
371815.91	3769070.00	150.63556	371840.91	3769070.00	152.16821
371865.91	3769070.00	124.89137	371890.91	3769070.00	93.36525
371915.91	3769070.00	69.75844	371940.91	3769070.00	53.06827
371965.91	3769070.00	42.26054	371990.91	3769070.00	34.41520
372015.91	3769070.00	29.04196	372040.91	3769070.00	24.63455

372065.91	3769070.00	21.55464	372090.91	3769070.00	18.88647
372115.91	3769070.00	16.90089	372140.91	3769070.00	15.09922
372165.91	3769070.00	13.71417	372190.91	3769070.00	12.41324
372215.91	3769070.00	11.40373	372240.91	3769070.00	10.44313
372265.91	3769070.00	9.68099	372290.91	3769070.00	8.99757
372315.91	3769070.00	8.38615	372340.91	3769070.00	7.81416
372365.91	3769070.00	7.33230	371340.91	3769095.00	6.51675

**MODELOPTs:

CONC URBAN ELEV HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC1 , SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371365.91	3769095.00	7.05987	371390.91	3769095.00	7.66831
371415.91	3769095.00	8.36013	371440.91	3769095.00	9.13355
371465.91	3769095.00	10.03942	371490.91	3769095.00	11.09495
371515.91	3769095.00	12.41909	371540.91	3769095.00	14.06409
371565.91	3769095.00	16.24154	371590.91	3769095.00	18.97604
371615.91	3769095.00	22.20029	371640.91	3769095.00	25.29061
371665.91	3769095.00	28.37810	371690.91	3769095.00	32.90552
371715.91	3769095.00	37.51478	371740.91	3769095.00	46.69743
371765.91	3769095.00	68.75505	371790.91	3769095.00	77.77977
371815.91	3769095.00	89.82030	371840.91	3769095.00	107.48547
371865.91	3769095.00	102.96703	371890.91	3769095.00	88.05091
371915.91	3769095.00	71.47208	371940.91	3769095.00	56.40796
371965.91	3769095.00	44.94762	371990.91	3769095.00	36.18521
372015.91	3769095.00	30.00775	372040.91	3769095.00	25.28937
372065.91	3769095.00	21.77735	372090.91	3769095.00	19.01783
372115.91	3769095.00	16.85402	372140.91	3769095.00	15.08330
372165.91	3769095.00	13.64536	372190.91	3769095.00	12.38443

372215.91	3769095.00	11.35435	372240.91	3769095.00	10.42818
372265.91	3769095.00	9.65258	372290.91	3769095.00	8.95476
372315.91	3769095.00	8.35131	372340.91	3769095.00	7.79113
372365.91	3769095.00	7.30939	371340.91	3769120.00	6.08363
371365.91	3769120.00	6.54327	371390.91	3769120.00	7.04486
371415.91	3769120.00	7.64384	371440.91	3769120.00	8.31651
371465.91	3769120.00	9.16176	371490.91	3769120.00	10.17256
371515.91	3769120.00	11.49243	371540.91	3769120.00	13.05532
371565.91	3769120.00	14.90052	371590.91	3769120.00	16.73138
371615.91	3769120.00	18.51701	371640.91	3769120.00	20.31214
371665.91	3769120.00	23.19278	371690.91	3769120.00	26.17669
371715.91	3769120.00	29.21383	371740.91	3769120.00	37.82967
371765.91	3769120.00	51.75175	371790.91	3769120.00	57.06779
371815.91	3769120.00	60.54443	371840.91	3769120.00	71.47276
371865.91	3769120.00	78.55853	371890.91	3769120.00	73.42070
371915.91	3769120.00	65.21877	371940.91	3769120.00	55.34114
371965.91	3769120.00	46.15659	371990.91	3769120.00	37.79016
372015.91	3769120.00	31.40194	372040.91	3769120.00	26.24884
372065.91	3769120.00	22.46444	372090.91	3769120.00	19.43644
372115.91	3769120.00	17.09736	372140.91	3769120.00	15.16482
372165.91	3769120.00	13.66737	372190.91	3769120.00	12.33508
372215.91	3769120.00	11.29257	372240.91	3769120.00	10.35882
372265.91	3769120.00	9.57884	372290.91	3769120.00	8.87227

**MODELOPTs:

CONC URBAN ELEV HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC1 , SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372315.91	3769120.00	8.26078	372340.91	3769120.00	7.71018
372365.91	3769120.00	7.24561	371340.91	3769145.00	5.62884

371365.91	3769145.00	6.04230	371390.91	3769145.00	6.51670
371415.91	3769145.00	7.09888	371440.91	3769145.00	7.77880
371465.91	3769145.00	8.62353	371490.91	3769145.00	9.60634
371515.91	3769145.00	10.75520	371540.91	3769145.00	11.93433
371565.91	3769145.00	13.10981	371590.91	3769145.00	14.17475
371615.91	3769145.00	15.44231	371640.91	3769145.00	17.20516
371665.91	3769145.00	19.36718	371690.91	3769145.00	20.87889
371715.91	3769145.00	24.11661	371740.91	3769145.00	31.53430
371765.91	3769145.00	40.18604	371790.91	3769145.00	43.68492
371815.91	3769145.00	45.02062	371840.91	3769145.00	49.94791
371865.91	3769145.00	57.68026	371890.91	3769145.00	59.28604
371915.91	3769145.00	55.91492	371940.91	3769145.00	50.38439
371965.91	3769145.00	44.20928	371990.91	3769145.00	37.89644
372015.91	3769145.00	32.24836	372040.91	3769145.00	27.25379
372065.91	3769145.00	23.33291	372090.91	3769145.00	20.11230
372115.91	3769145.00	17.59274	372140.91	3769145.00	15.54373
372165.91	3769145.00	13.89627	372190.91	3769145.00	12.49704
372215.91	3769145.00	11.35719	372240.91	3769145.00	10.35822
372265.91	3769145.00	9.54831	372290.91	3769145.00	8.81695
372315.91	3769145.00	8.20259	372340.91	3769145.00	7.64883
372365.91	3769145.00	7.16779	371340.91	3769170.00	5.26780
371365.91	3769170.00	5.68639	371390.91	3769170.00	6.17111
371415.91	3769170.00	6.76018	371440.91	3769170.00	7.41503
371465.91	3769170.00	8.17281	371490.91	3769170.00	8.94706
371515.91	3769170.00	9.76715	371540.91	3769170.00	10.50031
371565.91	3769170.00	11.25557	371590.91	3769170.00	12.12058
371615.91	3769170.00	13.34380	371640.91	3769170.00	14.80219
371665.91	3769170.00	16.00623	371690.91	3769170.00	17.30986
371715.91	3769170.00	20.61303	371740.91	3769170.00	26.20143
371765.91	3769170.00	31.97518	371790.91	3769170.00	34.40019
371815.91	3769170.00	35.17123	371840.91	3769170.00	36.92774
371865.91	3769170.00	42.21275	371890.91	3769170.00	46.24125
371915.91	3769170.00	46.58614	371940.91	3769170.00	43.67725
371965.91	3769170.00	40.03301	371990.91	3769170.00	35.71885
372015.91	3769170.00	31.56286	372040.91	3769170.00	27.43221
372065.91	3769170.00	23.81278	372090.91	3769170.00	20.64335
372115.91	3769170.00	18.16149	372140.91	3769170.00	15.98744
372165.91	3769170.00	14.24867	372190.91	3769170.00	12.74963

CONC URBAN ELEV
HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC1 , SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372215.91	3769170.00	11.52331	372240.91	3769170.00	10.46892
372265.91	3769170.00	9.59839	372290.91	3769170.00	8.82168
372315.91	3769170.00	8.18369	372340.91	3769170.00	7.60931
372365.91	3769170.00	7.11953	371340.91	3769195.00	5.03701
371365.91	3769195.00	5.45971	371390.91	3769195.00	5.93026
371415.91	3769195.00	6.46380	371440.91	3769195.00	7.01949
371465.91	3769195.00	7.58711	371490.91	3769195.00	8.12377
371515.91	3769195.00	8.64515	371540.91	3769195.00	9.16063
371565.91	3769195.00	9.81919	371590.91	3769195.00	10.67666
371615.91	3769195.00	11.74473	371640.91	3769195.00	12.67030
371665.91	3769195.00	13.41658	371690.91	3769195.00	14.87636
371715.91	3769195.00	17.81573	371740.91	3769195.00	22.14278
371765.91	3769195.00	26.08752	371790.91	3769195.00	27.89346
371815.91	3769195.00	28.49101	371840.91	3769195.00	29.10102
371865.91	3769195.00	31.84629	371890.91	3769195.00	35.73095
371915.91	3769195.00	37.86235	371940.91	3769195.00	37.23671
371965.91	3769195.00	35.21384	371990.91	3769195.00	32.45782
372015.91	3769195.00	29.67780	372040.91	3769195.00	26.58338
372065.91	3769195.00	23.69149	372090.91	3769195.00	20.97262
372115.91	3769195.00	18.57808	372140.91	3769195.00	16.42998
372165.91	3769195.00	14.64180	372190.91	3769195.00	13.08385
372215.91	3769195.00	11.80494	372240.91	3769195.00	10.68592
372265.91	3769195.00	9.74991	372290.91	3769195.00	8.94095
372315.91	3769195.00	8.25388	372340.91	3769195.00	7.64703
372365.91	3769195.00	7.12996	371340.91	3769220.00	4.86246
371365.91	3769220.00	5.25639	371390.91	3769220.00	5.65760
371415.91	3769220.00	6.08077	371440.91	3769220.00	6.47758
371465.91	3769220.00	6.87479	371490.91	3769220.00	7.22967
371515.91	3769220.00	7.63950	371540.91	3769220.00	8.11920
371565.91	3769220.00	8.77598	371590.91	3769220.00	9.55128
371615.91	3769220.00	10.31203	371640.91	3769220.00	10.81138

371665.91	3769220.00	11.54450	371690.91	3769220.00	13.02287
371715.91	3769220.00	15.58035	371740.91	3769220.00	18.88248
371765.91	3769220.00	21.75632	371790.91	3769220.00	23.00730
371815.91	3769220.00	23.57737	371840.91	3769220.00	23.73515
371865.91	3769220.00	25.04365	371890.91	3769220.00	27.68051
371915.91	3769220.00	30.39749	371940.91	3769220.00	31.22144
371965.91	3769220.00	30.59308	371990.91	3769220.00	28.91578
372015.91	3769220.00	27.02135	372040.91	3769220.00	24.86097
372065.91	3769220.00	22.79118	372090.91	3769220.00	20.58291

**MODELOPTs:

CONC URBAN ELEV HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC1 , SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372115.91	3769220.00	18.54751	372140.91	3769220.00	16.57263
372165.91	3769220.00	14.89368	372190.91	3769220.00	13.36347
372215.91	3769220.00	12.06465	372240.91	3769220.00	10.91273
372265.91	3769220.00	9.94676	372290.91	3769220.00	9.07910
372315.91	3769220.00	8.37068	372340.91	3769220.00	7.72658
372365.91	3769220.00	7.18717	371340.91	3769245.00	4.67144
371365.91	3769245.00	4.99657	371390.91	3769245.00	5.30826
371415.91	3769245.00	5.60869	371440.91	3769245.00	5.89221
371465.91	3769245.00	6.17337	371490.91	3769245.00	6.47391
371515.91	3769245.00	6.85532	371540.91	3769245.00	7.34522
371565.91	3769245.00	7.95159	371590.91	3769245.00	8.54281
371615.91	3769245.00	8.99476	371640.91	3769245.00	9.38659
371665.91	3769245.00	10.19033	371690.91	3769245.00	11.58961
371715.91	3769245.00	13.78926	371740.91	3769245.00	16.36749
371765.91	3769245.00	18.40655	371790.91	3769245.00	19.43801
371815.91	3769245.00	19.86369	371840.91	3769245.00	19.87627

371865.91	3769245.00	20.45585	371890.91	3769245.00	22.08541
371915.91	3769245.00	24.31038	371940.91	3769245.00	25.88869
371965.91	3769245.00	26.26840	371990.91	3769245.00	25.51953
372015.91	3769245.00	24.30014	372040.91	3769245.00	22.81458
372065.91	3769245.00	21.29050	372090.91	3769245.00	19.68067
372115.91	3769245.00	18.07952	372140.91	3769245.00	16.44858
372165.91	3769245.00	14.94145	372190.91	3769245.00	13.52057
372215.91	3769245.00	12.26542	372240.91	3769245.00	11.11878
372265.91	3769245.00	10.14301	372290.91	3769245.00	9.27182
372315.91	3769245.00	8.52764	372340.91	3769245.00	7.86322
372365.91	3769245.00	7.29100	371340.91	3769270.00	4.42204
371365.91	3769270.00	4.66692	371390.91	3769270.00	4.89007
371415.91	3769270.00	5.11249	371440.91	3769270.00	5.32215
371465.91	3769270.00	5.57138	371490.91	3769270.00	5.86620
371515.91	3769270.00	6.26095	371540.91	3769270.00	6.71568
371565.91	3769270.00	7.21579	371590.91	3769270.00	7.58137
371615.91	3769270.00	7.88582	371640.91	3769270.00	8.28222
371665.91	3769270.00	9.12913	371690.91	3769270.00	10.41989
371715.91	3769270.00	12.26930	371740.91	3769270.00	14.26995
371765.91	3769270.00	15.81359	371790.91	3769270.00	16.62455
371815.91	3769270.00	16.98331	371840.91	3769270.00	16.96176
371865.91	3769270.00	17.18128	371890.91	3769270.00	18.05776
371915.91	3769270.00	19.67692	371940.91	3769270.00	21.33394
371965.91	3769270.00	22.33662	371990.91	3769270.00	22.26980

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC1 , SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372015.91	3769270.00	21.70899	372040.91	3769270.00	20.68088

372065.91	3769270.00	19.61470	372090.91	3769270.00	18.39454
372115.91	3769270.00	17.20211	372140.91	3769270.00	15.92015
372165.91	3769270.00	14.69598	372190.91	3769270.00	13.45775
372215.91	3769270.00	12.31403	372240.91	3769270.00	11.24050
372265.91	3769270.00	10.29186	372290.91	3769270.00	9.41506
372315.91	3769270.00	8.67735	372340.91	3769270.00	7.98962
372365.91	3769270.00	7.41204	371340.91	3769295.00	4.12984
371365.91	3769295.00	4.30599	371390.91	3769295.00	4.47486
371415.91	3769295.00	4.65186	371440.91	3769295.00	4.84661
371465.91	3769295.00	5.09480	371490.91	3769295.00	5.39795
371515.91	3769295.00	5.77751	371540.91	3769295.00	6.16997
371565.91	3769295.00	6.50674	371590.91	3769295.00	6.73780
371615.91	3769295.00	6.99908	371640.91	3769295.00	7.46227
371665.91	3769295.00	8.26657	371690.91	3769295.00	9.43056
371715.91	3769295.00	10.98953	371740.91	3769295.00	12.58536
371765.91	3769295.00	13.78957	371790.91	3769295.00	14.41803
371815.91	3769295.00	14.73812	371840.91	3769295.00	14.70756
371865.91	3769295.00	14.74691	371890.91	3769295.00	15.17681
371915.91	3769295.00	16.24878	371940.91	3769295.00	17.63445
371965.91	3769295.00	18.82223	371990.91	3769295.00	19.34085
372015.91	3769295.00	19.23597	372040.91	3769295.00	18.65125
372065.91	3769295.00	17.90177	372090.91	3769295.00	17.01536
372115.91	3769295.00	16.11445	372140.91	3769295.00	15.13570
372165.91	3769295.00	14.17982	372190.91	3769295.00	13.16832
372215.91	3769295.00	12.19869	372240.91	3769295.00	11.23808
372265.91	3769295.00	10.35312	372290.91	3769295.00	9.52623
372315.91	3769295.00	8.79280	372340.91	3769295.00	8.11800
372365.91	3769295.00	7.52429	371340.91	3769320.00	3.81694
371365.91	3769320.00	3.95777	371390.91	3769320.00	4.09590
371415.91	3769320.00	4.26336	371440.91	3769320.00	4.46310
371465.91	3769320.00	4.71682	371490.91	3769320.00	5.01788
371515.91	3769320.00	5.34950	371540.91	3769320.00	5.63270
371565.91	3769320.00	5.85006	371590.91	3769320.00	6.02177
371615.91	3769320.00	6.30326	371640.91	3769320.00	6.78809
371665.91	3769320.00	7.55636	371690.91	3769320.00	8.58686
371715.91	3769320.00	9.90864	371740.91	3769320.00	11.18459
371765.91	3769320.00	12.13688	371790.91	3769320.00	12.62222
371815.91	3769320.00	12.90666	371840.91	3769320.00	12.90928
371865.91	3769320.00	12.86796	371890.91	3769320.00	13.03304

CONC URBAN ELEV
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*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC1 , SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371915.91	3769320.00	13.68396	371940.91	3769320.00	14.70545
371965.91	3769320.00	15.84684	371990.91	3769320.00	16.62418
372015.91	3769320.00	16.92897	372040.91	3769320.00	16.70980
372065.91	3769320.00	16.27670	372090.91	3769320.00	15.62620
372115.91	3769320.00	14.94565	372140.91	3769320.00	14.20501
372165.91	3769320.00	13.46330	372190.91	3769320.00	12.65808
372215.91	3769320.00	11.87846	372240.91	3769320.00	11.06425
372265.91	3769320.00	10.29386	372290.91	3769320.00	9.52951
372315.91	3769320.00	8.84715	372340.91	3769320.00	8.19211
372365.91	3769320.00	7.61417	371340.91	3769345.00	3.52399
371365.91	3769345.00	3.64541	371390.91	3769345.00	3.77928
371415.91	3769345.00	3.94943	371440.91	3769345.00	4.15632
371465.91	3769345.00	4.40572	371490.91	3769345.00	4.67952
371515.91	3769345.00	4.93435	371540.91	3769345.00	5.12680
371565.91	3769345.00	5.27254	371590.91	3769345.00	5.43884
371615.91	3769345.00	5.74531	371640.91	3769345.00	6.23805
371665.91	3769345.00	6.94583	371690.91	3769345.00	7.86836
371715.91	3769345.00	8.99052	371740.91	3769345.00	10.02120
371765.91	3769345.00	10.77909	371790.91	3769345.00	11.20131
371815.91	3769345.00	11.40998	371840.91	3769345.00	11.42554
371865.91	3769345.00	11.36045	371890.91	3769345.00	11.38455
371915.91	3769345.00	11.75229	371940.91	3769345.00	12.46842
371965.91	3769345.00	13.40549	371990.91	3769345.00	14.25834
372015.91	3769345.00	14.80413	372040.91	3769345.00	14.92856
372065.91	3769345.00	14.73886	372090.91	3769345.00	14.31147
372115.91	3769345.00	13.81811	372140.91	3769345.00	13.23782
372165.91	3769345.00	12.65915	372190.91	3769345.00	12.03638
372215.91	3769345.00	11.41128	372240.91	3769345.00	10.74886
372265.91	3769345.00	10.10180	372290.91	3769345.00	9.44776

372315.91	3769345.00	8.82252	372340.91	3769345.00	8.22042
372365.91	3769345.00	7.65889	371340.91	3769370.00	3.26070
371365.91	3769370.00	3.38088	371390.91	3769370.00	3.51740
371415.91	3769370.00	3.69581	371440.91	3769370.00	3.90079
371465.91	3769370.00	4.13037	371490.91	3769370.00	4.35043
371515.91	3769370.00	4.53370	371540.91	3769370.00	4.65796
371565.91	3769370.00	4.77690	371590.91	3769370.00	4.95924
371615.91	3769370.00	5.29076	371640.91	3769370.00	5.76627
371665.91	3769370.00	6.41878	371690.91	3769370.00	7.23198
371715.91	3769370.00	8.19525	371740.91	3769370.00	9.02355
371765.91	3769370.00	9.66005	371790.91	3769370.00	9.99082

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC1 , SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371815.91	3769370.00	10.17969	371840.91	3769370.00	10.20166
371865.91	3769370.00	10.13361	371890.91	3769370.00	10.08512
371915.91	3769370.00	10.27874	371940.91	3769370.00	10.72441
371965.91	3769370.00	11.45650	371990.91	3769370.00	12.23149
372015.91	3769370.00	12.88894	372040.91	3769370.00	13.22770
372065.91	3769370.00	13.27765	372090.91	3769370.00	13.05996
372115.91	3769370.00	12.72203	372140.91	3769370.00	12.28549
372165.91	3769370.00	11.82366	372190.91	3769370.00	11.33160
372215.91	3769370.00	10.84124	372240.91	3769370.00	10.30564
372265.91	3769370.00	9.78813	372290.91	3769370.00	9.23079
372315.91	3769370.00	8.70249	372340.91	3769370.00	8.16404
372365.91	3769370.00	7.65507	371340.91	3769395.00	3.04195
371365.91	3769395.00	3.16255	371390.91	3769395.00	3.30883
371415.91	3769395.00	3.48585	371440.91	3769395.00	3.67607

371465.91	3769395.00	3.86831	371490.91	3769395.00	4.03104
371515.91	3769395.00	4.15257	371540.91	3769395.00	4.24303
371565.91	3769395.00	4.36523	371590.91	3769395.00	4.57390
371615.91	3769395.00	4.90832	371640.91	3769395.00	5.35949
371665.91	3769395.00	5.95550	371690.91	3769395.00	6.69322
371715.91	3769395.00	7.50206	371740.91	3769395.00	8.20079
371765.91	3769395.00	8.70473	371790.91	3769395.00	8.99085
371815.91	3769395.00	9.15717	371840.91	3769395.00	9.17949
371865.91	3769395.00	9.11678	371890.91	3769395.00	9.03830
371915.91	3769395.00	9.10550	371940.91	3769395.00	9.37973
371965.91	3769395.00	9.90322	371990.91	3769395.00	10.55979
372015.91	3769395.00	11.21359	372040.91	3769395.00	11.67347
372065.91	3769395.00	11.90334	372090.91	3769395.00	11.87695
372115.91	3769395.00	11.68254	372140.91	3769395.00	11.37422
372165.91	3769395.00	11.01074	372190.91	3769395.00	10.62603
372215.91	3769395.00	10.23040	372240.91	3769395.00	9.81092
372265.91	3769395.00	9.38632	372290.91	3769395.00	8.93906
372315.91	3769395.00	8.49272	372340.91	3769395.00	8.02944
372365.91	3769395.00	7.58299	371340.91	3769420.00	2.85702
371365.91	3769420.00	2.98331	371390.91	3769420.00	3.13084
371415.91	3769420.00	3.29864	371440.91	3769420.00	3.46219
371465.91	3769420.00	3.61215	371490.91	3769420.00	3.72433
371515.91	3769420.00	3.80665	371540.91	3769420.00	3.88606
371565.91	3769420.00	4.02521	371590.91	3769420.00	4.24704
371615.91	3769420.00	4.58035	371640.91	3769420.00	4.99546
371665.91	3769420.00	5.54967	371690.91	3769420.00	6.20471

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*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC1 , SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC

371715.91	3769420.00	6.89659	371740.91	3769420.00	7.47498
371765.91	3769420.00	7.89621	371790.91	3769420.00	8.13837
371815.91	3769420.00	8.28527	371840.91	3769420.00	8.30023
371865.91	3769420.00	8.26442	371890.91	3769420.00	8.15796
371915.91	3769420.00	8.16209	371940.91	3769420.00	8.30324
371965.91	3769420.00	8.66952	371990.91	3769420.00	9.17645
372015.91	3769420.00	9.76924	372040.91	3769420.00	10.26380
372065.91	3769420.00	10.62884	372090.91	3769420.00	10.73818
372115.91	3769420.00	10.70286	372140.91	3769420.00	10.50406
372165.91	3769420.00	10.24275	372190.91	3769420.00	9.92802
372215.91	3769420.00	9.61956	372240.91	3769420.00	9.27298
372265.91	3769420.00	8.93350	372290.91	3769420.00	8.56052
372315.91	3769420.00	8.20689	372340.91	3769420.00	7.81632
372365.91	3769420.00	7.43496	371340.91	3769445.00	2.70477
371365.91	3769445.00	2.83268	371390.91	3769445.00	2.97528
371415.91	3769445.00	3.12213	371440.91	3769445.00	3.25495
371465.91	3769445.00	3.36370	371490.91	3769445.00	3.43776
371515.91	3769445.00	3.50342	371540.91	3769445.00	3.58904
371565.91	3769445.00	3.74347	371590.91	3769445.00	3.97445
371615.91	3769445.00	4.28991	371640.91	3769445.00	4.68420
371665.91	3769445.00	5.18886	371690.91	3769445.00	5.77256
371715.91	3769445.00	6.36724	371740.91	3769445.00	6.85799
371765.91	3769445.00	7.21133	371790.91	3769445.00	7.41262
371815.91	3769445.00	7.54206	371840.91	3769445.00	7.56913
371865.91	3769445.00	7.52532	371890.91	3769445.00	7.42759
371915.91	3769445.00	7.38838	371940.91	3769445.00	7.45219
371965.91	3769445.00	7.68922	371990.91	3769445.00	8.06420
372015.91	3769445.00	8.55789	372040.91	3769445.00	9.04790
372065.91	3769445.00	9.44976	372090.91	3769445.00	9.68881
372115.91	3769445.00	9.76869	372140.91	3769445.00	9.68564
372165.91	3769445.00	9.51507	372190.91	3769445.00	9.28312
372215.91	3769445.00	9.02338	372240.91	3769445.00	8.74653
372265.91	3769445.00	8.46777	372290.91	3769445.00	8.16788
372315.91	3769445.00	7.86857	372340.91	3769445.00	7.54980
372365.91	3769445.00	7.23420	371340.91	3769470.00	2.57592
371365.91	3769470.00	2.70136	371390.91	3769470.00	2.82694
371415.91	3769470.00	2.95042	371440.91	3769470.00	3.04941
371465.91	3769470.00	3.12619	371490.91	3769470.00	3.17647
371515.91	3769470.00	3.23966	371540.91	3769470.00	3.33798
371565.91	3769470.00	3.50497	371590.91	3769470.00	3.73483

CONC URBAN ELEV
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*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC1 , SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371615.91	3769470.00	4.03266	371640.91	3769470.00	4.40040
371665.91	3769470.00	4.86251	371690.91	3769470.00	5.37623
371715.91	3769470.00	5.89857	371740.91	3769470.00	6.31126
371765.91	3769470.00	6.61127	371790.91	3769470.00	6.78958
371815.91	3769470.00	6.89829	371840.91	3769470.00	6.91909
371865.91	3769470.00	6.89090	371890.91	3769470.00	6.80471
371915.91	3769470.00	6.74455	371940.91	3769470.00	6.74690
371965.91	3769470.00	6.88943	371990.91	3769470.00	7.16152
372015.91	3769470.00	7.55543	372040.91	3769470.00	7.98133
372065.91	3769470.00	8.39616	372090.91	3769470.00	8.69974
372115.91	3769470.00	8.87609	372140.91	3769470.00	8.89720
372165.91	3769470.00	8.82401	372190.91	3769470.00	8.66034
372215.91	3769470.00	8.46391	372240.91	3769470.00	8.22820
372265.91	3769470.00	8.00063	372290.91	3769470.00	7.75023
372315.91	3769470.00	7.50980	372340.91	3769470.00	7.24359
372365.91	3769470.00	6.98166	371340.91	3769495.00	2.46223
371365.91	3769495.00	2.57651	371390.91	3769495.00	2.68624
371415.91	3769495.00	2.78090	371440.91	3769495.00	2.85085
371465.91	3769495.00	2.90312	371490.91	3769495.00	2.94770
371515.91	3769495.00	3.01656	371540.91	3769495.00	3.12633
371565.91	3769495.00	3.29952	371590.91	3769495.00	3.52336
371615.91	3769495.00	3.80603	371640.91	3769495.00	4.14980
371665.91	3769495.00	4.57353	371690.91	3769495.00	5.03653
371715.91	3769495.00	5.48051	371740.91	3769495.00	5.83914
371765.91	3769495.00	6.09520	371790.91	3769495.00	6.24562

371815.91	3769495.00	6.34045	371840.91	3769495.00	6.36728
371865.91	3769495.00	6.34568	371890.91	3769495.00	6.26508
371915.91	3769495.00	6.19221	371940.91	3769495.00	6.16639
371965.91	3769495.00	6.23993	371990.91	3769495.00	6.42302
372015.91	3769495.00	6.72153	372040.91	3769495.00	7.08781
372065.91	3769495.00	7.47546	372090.91	3769495.00	7.80186
372115.91	3769495.00	8.04159	372140.91	3769495.00	8.14839
372165.91	3769495.00	8.15895	372190.91	3769495.00	8.06792
372215.91	3769495.00	7.93084	372240.91	3769495.00	7.74928
372265.91	3769495.00	7.55568	372290.91	3769495.00	7.35263
372315.91	3769495.00	7.14371	372340.91	3769495.00	6.92392
372365.91	3769495.00	6.70618	371340.91	3769520.00	2.35505
371365.91	3769520.00	2.45646	371390.91	3769520.00	2.54269
371415.91	3769520.00	2.61270	371440.91	3769520.00	2.66190
371465.91	3769520.00	2.70237	371490.91	3769520.00	2.74617

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC1 , SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371515.91	3769520.00	2.82399	371540.91	3769520.00	2.94524
371565.91	3769520.00	3.11814	371590.91	3769520.00	3.33103
371615.91	3769520.00	3.60149	371640.91	3769520.00	3.92195
371665.91	3769520.00	4.31027	371690.91	3769520.00	4.71458
371715.91	3769520.00	5.10794	371740.91	3769520.00	5.40812
371765.91	3769520.00	5.63516	371790.91	3769520.00	5.75966
371815.91	3769520.00	5.85002	371840.91	3769520.00	5.86849
371865.91	3769520.00	5.86036	371890.91	3769520.00	5.78552
371915.91	3769520.00	5.71915	371940.91	3769520.00	5.66228
371965.91	3769520.00	5.69517	371990.91	3769520.00	5.80695

372015.91	3769520.00	6.03443	372040.91	3769520.00	6.32104
372065.91	3769520.00	6.66949	372090.91	3769520.00	6.99510
372115.91	3769520.00	7.26680	372140.91	3769520.00	7.43896
372165.91	3769520.00	7.51853	372190.91	3769520.00	7.49540
372215.91	3769520.00	7.41529	372240.91	3769520.00	7.28386
372265.91	3769520.00	7.13206	372290.91	3769520.00	6.95501
372315.91	3769520.00	6.78392	372340.91	3769520.00	6.59686
372365.91	3769520.00	6.41656	371340.91	3769545.00	2.25514
371365.91	3769545.00	2.33725	371390.91	3769545.00	2.40305
371415.91	3769545.00	2.45314	371440.91	3769545.00	2.48709
371465.91	3769545.00	2.52295	371490.91	3769545.00	2.57475
371515.91	3769545.00	2.66241	371540.91	3769545.00	2.78845
371565.91	3769545.00	2.96029	371590.91	3769545.00	3.16409
371615.91	3769545.00	3.41417	371640.91	3769545.00	3.71492
371665.91	3769545.00	4.06976	371690.91	3769545.00	4.43435
371715.91	3769545.00	4.77229	371740.91	3769545.00	5.03817
371765.91	3769545.00	5.23239	371790.91	3769545.00	5.34678
371815.91	3769545.00	5.41684	371840.91	3769545.00	5.44289
371865.91	3769545.00	5.43412	371890.91	3769545.00	5.37509
371915.91	3769545.00	5.30283	371940.91	3769545.00	5.24159
371965.91	3769545.00	5.23876	371990.91	3769545.00	5.30379
372015.91	3769545.00	5.45973	372040.91	3769545.00	5.68921
372065.91	3769545.00	5.97989	372090.91	3769545.00	6.27892
372115.91	3769545.00	6.56139	372140.91	3769545.00	6.77343
372165.91	3769545.00	6.90586	372190.91	3769545.00	6.94663
372215.91	3769545.00	6.92655	372240.91	3769545.00	6.84092
372265.91	3769545.00	6.72926	372290.91	3769545.00	6.58636
372315.91	3769545.00	6.43851	372340.91	3769545.00	6.27879
372365.91	3769545.00	6.12463	371340.91	3769570.00	2.15359
371365.91	3769570.00	2.21763	371390.91	3769570.00	2.26553

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC1 , SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371415.91	3769570.00	2.30101	371440.91	3769570.00	2.32845
371465.91	3769570.00	2.36723	371490.91	3769570.00	2.42521
371515.91	3769570.00	2.52090	371540.91	3769570.00	2.64929
371565.91	3769570.00	2.81488	371590.91	3769570.00	3.00687
371615.91	3769570.00	3.24358	371640.91	3769570.00	3.52478
371665.91	3769570.00	3.84804	371690.91	3769570.00	4.17300
371715.91	3769570.00	4.47337	371740.91	3769570.00	4.69967
371765.91	3769570.00	4.87402	371790.91	3769570.00	4.97025
371815.91	3769570.00	5.03835	371840.91	3769570.00	5.05610
371865.91	3769570.00	5.05657	371890.91	3769570.00	5.00356
371915.91	3769570.00	4.94079	371940.91	3769570.00	4.86775
371965.91	3769570.00	4.84391	371990.91	3769570.00	4.87312
372015.91	3769570.00	4.98267	372040.91	3769570.00	5.14997
372065.91	3769570.00	5.38829	372090.91	3769570.00	5.65378
372115.91	3769570.00	5.92785	372140.91	3769570.00	6.15033
372165.91	3769570.00	6.32961	372190.91	3769570.00	6.41353
372215.91	3769570.00	6.44861	372240.91	3769570.00	6.40669
372265.91	3769570.00	6.33747	372290.91	3769570.00	6.22320
372315.91	3769570.00	6.10807	372340.91	3769570.00	5.96842
372365.91	3769570.00	5.83925	371340.91	3769595.00	2.05253
371365.91	3769595.00	2.10044	371390.91	3769595.00	2.13387
371415.91	3769595.00	2.16025	371440.91	3769595.00	2.18636
371465.91	3769595.00	2.23063	371490.91	3769595.00	2.29736
371515.91	3769595.00	2.39832	371540.91	3769595.00	2.52619
371565.91	3769595.00	2.68316	371590.91	3769595.00	2.86540
371615.91	3769595.00	3.09075	371640.91	3769595.00	3.35309
371665.91	3769595.00	3.64617	371690.91	3769595.00	3.93588
371715.91	3769595.00	4.20214	371740.91	3769595.00	4.40342
371765.91	3769595.00	4.55011	371790.91	3769595.00	4.64138
371815.91	3769595.00	4.69986	371840.91	3769595.00	4.71951
371865.91	3769595.00	4.71483	371890.91	3769595.00	4.67323
371915.91	3769595.00	4.61613	371940.91	3769595.00	4.54734
371965.91	3769595.00	4.50616	371990.91	3769595.00	4.50680
372015.91	3769595.00	4.57541	372040.91	3769595.00	4.70238
372065.91	3769595.00	4.88893	372090.91	3769595.00	5.11375
372115.91	3769595.00	5.36440	372140.91	3769595.00	5.59437
372165.91	3769595.00	5.78739	372190.91	3769595.00	5.91675
372215.91	3769595.00	5.98864	372240.91	3769595.00	6.00124

372265.91	3769595.00	5.96478	372290.91	3769595.00	5.88882
372315.91	3769595.00	5.79399	372340.91	3769595.00	5.68177

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC1 , SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372365.91	3769595.00	5.56627	372390.91	3769170.00	6.67499
372415.91	3769170.00	6.28559	372390.91	3769195.00	6.66637
372415.91	3769195.00	6.26166	372324.62	3768512.50	3.03456
372240.62	3768308.50	1.78911	373073.12	3769250.00	2.18839
370888.16	3768917.00	2.11209	373073.78	3769299.75	2.13550
373076.31	3768939.25	2.17583	372601.41	3768361.25	1.63642
372301.84	3768327.50	2.07197	371747.22	3768345.00	1.22634
372389.25	3769329.00	7.14630	371296.72	3768889.25	4.37410
372959.97	3768868.75	2.28805	371735.91	3768977.75	50.44150
371738.66	3768975.00	40.06678	371763.66	3768974.50	11.07231
371788.62	3768974.25	43.54319	371791.47	3768974.00	48.49544
371794.09	3768976.75	51.60088	371794.53	3769001.75	143.10329
371794.62	3769008.00	264.18539	371769.62	3769008.50	44.05423
371744.62	3769009.00	121.26742	371736.47	3769009.00	125.85217
371736.03	3768984.00	69.68575	371735.91	3768977.75	50.44150

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1 ***
INCLUDING SOURCE(S): SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371340.91	3768570.00	0.30392	371365.91	3768570.00	0.29978
371390.91	3768570.00	0.28647	371415.91	3768570.00	0.27710
371440.91	3768570.00	0.26002	371465.91	3768570.00	0.24472
371490.91	3768570.00	0.22562	371515.91	3768570.00	0.20384
371540.91	3768570.00	0.17816	371565.91	3768570.00	0.15534
371590.91	3768570.00	0.13783	371615.91	3768570.00	0.13800
371640.91	3768570.00	0.15996	371665.91	3768570.00	0.20864
371690.91	3768570.00	0.26819	371715.91	3768570.00	0.32964
371740.91	3768570.00	0.37812	371765.91	3768570.00	0.41693
371790.91	3768570.00	0.44562	371815.91	3768570.00	0.47386
371840.91	3768570.00	0.49867	371865.91	3768570.00	0.53070
371890.91	3768570.00	0.55726	371915.91	3768570.00	0.58426
371940.91	3768570.00	0.59727	371965.91	3768570.00	0.62755
371990.91	3768570.00	0.65886	372015.91	3768570.00	0.71443
372040.91	3768570.00	0.76840	372065.91	3768570.00	0.83344
372090.91	3768570.00	0.88175	372115.91	3768570.00	0.92264
372140.91	3768570.00	0.93654	372165.91	3768570.00	0.94143
372190.91	3768570.00	0.91944	372215.91	3768570.00	0.89614
372240.91	3768570.00	0.85686	372265.91	3768570.00	0.82005
372290.91	3768570.00	0.77648	372315.91	3768570.00	0.74201
372340.91	3768570.00	0.70415	372365.91	3768570.00	0.67533
371340.91	3768595.00	0.32699	371365.91	3768595.00	0.32114
371390.91	3768595.00	0.31011	371415.91	3768595.00	0.30066
371440.91	3768595.00	0.28625	371465.91	3768595.00	0.27076
371490.91	3768595.00	0.25152	371515.91	3768595.00	0.22883
371540.91	3768595.00	0.20160	371565.91	3768595.00	0.17427
371590.91	3768595.00	0.15153	371615.91	3768595.00	0.14301
371640.91	3768595.00	0.15809	371665.91	3768595.00	0.20264
371690.91	3768595.00	0.26322	371715.91	3768595.00	0.33043
371740.91	3768595.00	0.38389	371765.91	3768595.00	0.42828
371790.91	3768595.00	0.46143	371815.91	3768595.00	0.49180
371840.91	3768595.00	0.52033	371865.91	3768595.00	0.55637
371890.91	3768595.00	0.58655	371915.91	3768595.00	0.61684

371940.91	3768595.00	0.63724	371965.91	3768595.00	0.67596
371990.91	3768595.00	0.71979	372015.91	3768595.00	0.78538
372040.91	3768595.00	0.84614	372065.91	3768595.00	0.91442
372090.91	3768595.00	0.95825	372115.91	3768595.00	0.98851
372140.91	3768595.00	0.98728	372165.91	3768595.00	0.97487
372190.91	3768595.00	0.94024	372215.91	3768595.00	0.90246
372240.91	3768595.00	0.85600	372265.91	3768595.00	0.81615

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1 ***
INCLUDING SOURCE(S): SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372290.91	3768595.00	0.77079	372315.91	3768595.00	0.73612
372340.91	3768595.00	0.70148	372365.91	3768595.00	0.67423
371340.91	3768620.00	0.35466	371365.91	3768620.00	0.34825
371390.91	3768620.00	0.33425	371415.91	3768620.00	0.32694
371440.91	3768620.00	0.31240	371465.91	3768620.00	0.29969
371490.91	3768620.00	0.27947	371515.91	3768620.00	0.25682
371540.91	3768620.00	0.22819	371565.91	3768620.00	0.19765
371590.91	3768620.00	0.16895	371615.91	3768620.00	0.15206
371640.91	3768620.00	0.15667	371665.91	3768620.00	0.19401
371690.91	3768620.00	0.25669	371715.91	3768620.00	0.32788
371740.91	3768620.00	0.38640	371765.91	3768620.00	0.43724
371790.91	3768620.00	0.47316	371815.91	3768620.00	0.50774
371840.91	3768620.00	0.54111	371865.91	3768620.00	0.58004
371890.91	3768620.00	0.61478	371915.91	3768620.00	0.64765
371940.91	3768620.00	0.67454	371965.91	3768620.00	0.73020
371990.91	3768620.00	0.78734	372015.91	3768620.00	0.86556
372040.91	3768620.00	0.93177	372065.91	3768620.00	1.00028

372090.91	3768620.00	1.02892	372115.91	3768620.00	1.03815
372140.91	3768620.00	1.01792	372165.91	3768620.00	0.99048
372190.91	3768620.00	0.93907	372215.91	3768620.00	0.89908
372240.91	3768620.00	0.84849	372265.91	3768620.00	0.80836
372290.91	3768620.00	0.76418	372315.91	3768620.00	0.73329
372340.91	3768620.00	0.70025	372365.91	3768620.00	0.67517
371340.91	3768645.00	0.39183	371365.91	3768645.00	0.38120
371390.91	3768645.00	0.36618	371415.91	3768645.00	0.35610
371440.91	3768645.00	0.34239	371465.91	3768645.00	0.33078
371490.91	3768645.00	0.31255	371515.91	3768645.00	0.28944
371540.91	3768645.00	0.25912	371565.91	3768645.00	0.22592
371590.91	3768645.00	0.19163	371615.91	3768645.00	0.16562
371640.91	3768645.00	0.15860	371665.91	3768645.00	0.18708
371690.91	3768645.00	0.24832	371715.91	3768645.00	0.32459
371740.91	3768645.00	0.39005	371765.91	3768645.00	0.44470
371790.91	3768645.00	0.48483	371815.91	3768645.00	0.52386
371840.91	3768645.00	0.56184	371865.91	3768645.00	0.60593
371890.91	3768645.00	0.64296	371915.91	3768645.00	0.68379
371940.91	3768645.00	0.73239	371965.91	3768645.00	0.80654
371990.91	3768645.00	0.87995	372015.91	3768645.00	0.96714
372040.91	3768645.00	1.03845	372065.91	3768645.00	1.08218
372090.91	3768645.00	1.08543	372115.91	3768645.00	1.07574
372140.91	3768645.00	1.03740	372165.91	3768645.00	0.99063

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*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1 ***
INCLUDING SOURCE(S): SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372190.91	3768645.00	0.93648	372215.91	3768645.00	0.88999
372240.91	3768645.00	0.84085	372265.91	3768645.00	0.80440

372290.91	3768645.00	0.76458	372315.91	3768645.00	0.73371
372340.91	3768645.00	0.70396	372365.91	3768645.00	0.68065
371340.91	3768670.00	0.43973	371365.91	3768670.00	0.42537
371390.91	3768670.00	0.40541	371415.91	3768670.00	0.39360
371440.91	3768670.00	0.37757	371465.91	3768670.00	0.36786
371490.91	3768670.00	0.34862	371515.91	3768670.00	0.32743
371540.91	3768670.00	0.29498	371565.91	3768670.00	0.25911
371590.91	3768670.00	0.21911	371615.91	3768670.00	0.18331
371640.91	3768670.00	0.16515	371665.91	3768670.00	0.18220
371690.91	3768670.00	0.23857	371715.91	3768670.00	0.31789
371740.91	3768670.00	0.38903	371765.91	3768670.00	0.45014
371790.91	3768670.00	0.49242	371815.91	3768670.00	0.54000
371840.91	3768670.00	0.58193	371865.91	3768670.00	0.63238
371890.91	3768670.00	0.66882	371915.91	3768670.00	0.73023
371940.91	3768670.00	0.79678	371965.91	3768670.00	0.89565
371990.91	3768670.00	0.97755	372015.91	3768670.00	1.06739
372040.91	3768670.00	1.11313	372065.91	3768670.00	1.13939
372090.91	3768670.00	1.11736	372115.91	3768670.00	1.08531
372140.91	3768670.00	1.02714	372165.91	3768670.00	0.97938
372190.91	3768670.00	0.91878	372215.91	3768670.00	0.88098
372240.91	3768670.00	0.83508	372265.91	3768670.00	0.80204
372290.91	3768670.00	0.76300	372315.91	3768670.00	0.73871
372340.91	3768670.00	0.70834	372365.91	3768670.00	0.68649
371340.91	3768695.00	0.50276	371365.91	3768695.00	0.48287
371390.91	3768695.00	0.45942	371415.91	3768695.00	0.44308
371440.91	3768695.00	0.42607	371465.91	3768695.00	0.41142
371490.91	3768695.00	0.39353	371515.91	3768695.00	0.37100
371540.91	3768695.00	0.33736	371565.91	3768695.00	0.29819
371590.91	3768695.00	0.25109	371615.91	3768695.00	0.20858
371640.91	3768695.00	0.17712	371665.91	3768695.00	0.17961
371690.91	3768695.00	0.22684	371715.91	3768695.00	0.30633
371740.91	3768695.00	0.38671	371765.91	3768695.00	0.45439
371790.91	3768695.00	0.50403	371815.91	3768695.00	0.55443
371840.91	3768695.00	0.60310	371865.91	3768695.00	0.65749
371890.91	3768695.00	0.70960	371915.91	3768695.00	0.79042
371940.91	3768695.00	0.88075	371965.91	3768695.00	0.99772
371990.91	3768695.00	1.08726	372015.91	3768695.00	1.16209
372040.91	3768695.00	1.18136	372065.91	3768695.00	1.17749

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*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1 ***
INCLUDING SOURCE(S): SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372090.91	3768695.00	1.12906	372115.91	3768695.00	1.08056
372140.91	3768695.00	1.01575	372165.91	3768695.00	0.96461
372190.91	3768695.00	0.91406	372215.91	3768695.00	0.87600
372240.91	3768695.00	0.83668	372265.91	3768695.00	0.80432
372290.91	3768695.00	0.77027	372315.91	3768695.00	0.74357
372340.91	3768695.00	0.71531	372365.91	3768695.00	0.69136
371340.91	3768720.00	0.57681	371365.91	3768720.00	0.55806
371390.91	3768720.00	0.53007	371415.91	3768720.00	0.50914
371440.91	3768720.00	0.48367	371465.91	3768720.00	0.46517
371490.91	3768720.00	0.44276	371515.91	3768720.00	0.42140
371540.91	3768720.00	0.38498	371565.91	3768720.00	0.34334
371590.91	3768720.00	0.28961	371615.91	3768720.00	0.23951
371640.91	3768720.00	0.19551	371665.91	3768720.00	0.18083
371690.91	3768720.00	0.21433	371715.91	3768720.00	0.29430
371740.91	3768720.00	0.37893	371765.91	3768720.00	0.45533
371790.91	3768720.00	0.51102	371815.91	3768720.00	0.56946
371840.91	3768720.00	0.62218	371865.91	3768720.00	0.68071
371890.91	3768720.00	0.74758	371915.91	3768720.00	0.85951
371940.91	3768720.00	0.97180	371965.91	3768720.00	1.10605
371990.91	3768720.00	1.17736	372015.91	3768720.00	1.22270
372040.91	3768720.00	1.21069	372065.91	3768720.00	1.17421
372090.91	3768720.00	1.11211	372115.91	3768720.00	1.05469
372140.91	3768720.00	0.99398	372165.91	3768720.00	0.94763
372190.91	3768720.00	0.89988	372215.91	3768720.00	0.87170
372240.91	3768720.00	0.83256	372265.91	3768720.00	0.80571
372290.91	3768720.00	0.76949	372315.91	3768720.00	0.74774
372340.91	3768720.00	0.71786	372365.91	3768720.00	0.69609
371340.91	3768745.00	0.66375	371365.91	3768745.00	0.64698
371390.91	3768745.00	0.62032	371415.91	3768745.00	0.59510
371440.91	3768745.00	0.56446	371465.91	3768745.00	0.53678
371490.91	3768745.00	0.50822	371515.91	3768745.00	0.48084

371540.91	3768745.00	0.44386	371565.91	3768745.00	0.39834
371590.91	3768745.00	0.34074	371615.91	3768745.00	0.27796
371640.91	3768745.00	0.21960	371665.91	3768745.00	0.18805
371690.91	3768745.00	0.20333	371715.91	3768745.00	0.27763
371740.91	3768745.00	0.37289	371765.91	3768745.00	0.45554
371790.91	3768745.00	0.51721	371815.91	3768745.00	0.57770
371840.91	3768745.00	0.63724	371865.91	3768745.00	0.70375
371890.91	3768745.00	0.80061	371915.91	3768745.00	0.94593
371940.91	3768745.00	1.08641	371965.91	3768745.00	1.20186

**MODELOPTs:

CONC URBAN ELEV HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1 ***
INCLUDING SOURCE(S): SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371990.91	3768745.00	1.24126	372015.91	3768745.00	1.25527
372040.91	3768745.00	1.20200	372065.91	3768745.00	1.15465
372090.91	3768745.00	1.08173	372115.91	3768745.00	1.03418
372140.91	3768745.00	0.97544	372165.91	3768745.00	0.94005
372190.91	3768745.00	0.90124	372215.91	3768745.00	0.87066
372240.91	3768745.00	0.83697	372265.91	3768745.00	0.80908
372290.91	3768745.00	0.77806	372315.91	3768745.00	0.74980
372340.91	3768745.00	0.72154	372365.91	3768745.00	0.70136
371340.91	3768770.00	0.75615	371365.91	3768770.00	0.74560
371390.91	3768770.00	0.72289	371415.91	3768770.00	0.70093
371440.91	3768770.00	0.66747	371465.91	3768770.00	0.63185
371490.91	3768770.00	0.59278	371515.91	3768770.00	0.55734
371540.91	3768770.00	0.51344	371565.91	3768770.00	0.46663
371590.91	3768770.00	0.40119	371615.91	3768770.00	0.32706
371640.91	3768770.00	0.25314	371665.91	3768770.00	0.20122
371690.91	3768770.00	0.19462	371715.91	3768770.00	0.25897

371740.91	3768770.00	0.35734	371765.91	3768770.00	0.44940
371790.91	3768770.00	0.51945	371815.91	3768770.00	0.58028
371840.91	3768770.00	0.63917	371865.91	3768770.00	0.72935
371890.91	3768770.00	0.86176	371915.91	3768770.00	1.04378
371940.91	3768770.00	1.17207	371965.91	3768770.00	1.26128
371990.91	3768770.00	1.24667	372015.91	3768770.00	1.23099
372040.91	3768770.00	1.15540	372065.91	3768770.00	1.11217
372090.91	3768770.00	1.04458	372115.91	3768770.00	1.01166
372140.91	3768770.00	0.95730	372165.91	3768770.00	0.93256
372190.91	3768770.00	0.89311	372215.91	3768770.00	0.86764
372240.91	3768770.00	0.83399	372265.91	3768770.00	0.80874
372290.91	3768770.00	0.77749	372315.91	3768770.00	0.75771
372340.91	3768770.00	0.73127	372365.91	3768770.00	0.71453
371340.91	3768795.00	0.85092	371365.91	3768795.00	0.84464
371390.91	3768795.00	0.83635	371415.91	3768795.00	0.81998
371440.91	3768795.00	0.79125	371465.91	3768795.00	0.75522
371490.91	3768795.00	0.71013	371515.91	3768795.00	0.66213
371540.91	3768795.00	0.60736	371565.91	3768795.00	0.55101
371590.91	3768795.00	0.47942	371615.91	3768795.00	0.39093
371640.91	3768795.00	0.29828	371665.91	3768795.00	0.22199
371690.91	3768795.00	0.18951	371715.91	3768795.00	0.23483
371740.91	3768795.00	0.33644	371765.91	3768795.00	0.43813
371790.91	3768795.00	0.51089	371815.91	3768795.00	0.57053
371840.91	3768795.00	0.63982	371865.91	3768795.00	0.76409

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1 ***
INCLUDING SOURCE(S): SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371890.91	3768795.00	0.94063	371915.91	3768795.00	1.12284

371940.91	3768795.00	1.22595	371965.91	3768795.00	1.25757
371990.91	3768795.00	1.21746	372015.91	3768795.00	1.17495
372040.91	3768795.00	1.11826	372065.91	3768795.00	1.07235
372090.91	3768795.00	1.02757	372115.91	3768795.00	0.99271
372140.91	3768795.00	0.95574	372165.91	3768795.00	0.92458
372190.91	3768795.00	0.89242	372215.91	3768795.00	0.86626
372240.91	3768795.00	0.83809	372265.91	3768795.00	0.81627
372290.91	3768795.00	0.79487	372315.91	3768795.00	0.77844
372340.91	3768795.00	0.75973	372365.91	3768795.00	0.74899
371340.91	3768820.00	0.94722	371365.91	3768820.00	0.95032
371390.91	3768820.00	0.94783	371415.91	3768820.00	0.94658
371440.91	3768820.00	0.93045	371465.91	3768820.00	0.90482
371490.91	3768820.00	0.85868	371515.91	3768820.00	0.80508
371540.91	3768820.00	0.73475	371565.91	3768820.00	0.66427
371590.91	3768820.00	0.57893	371615.91	3768820.00	0.47665
371640.91	3768820.00	0.35704	371665.91	3768820.00	0.25127
371690.91	3768820.00	0.18619	371715.91	3768820.00	0.20698
371740.91	3768820.00	0.30197	371765.91	3768820.00	0.40998
371790.91	3768820.00	0.48335	371815.91	3768820.00	0.54243
371840.91	3768820.00	0.62826	371865.91	3768820.00	0.80496
371890.91	3768820.00	0.99478	371915.91	3768820.00	1.15339
371940.91	3768820.00	1.19646	371965.91	3768820.00	1.19512
371990.91	3768820.00	1.14401	372015.91	3768820.00	1.11079
372040.91	3768820.00	1.06366	372065.91	3768820.00	1.03898
372090.91	3768820.00	1.00099	372115.91	3768820.00	0.97855
372140.91	3768820.00	0.94329	372165.91	3768820.00	0.92170
372190.91	3768820.00	0.89167	372215.91	3768820.00	0.87795
372240.91	3768820.00	0.85873	372265.91	3768820.00	0.84983
372290.91	3768820.00	0.83386	372315.91	3768820.00	0.82793
372340.91	3768820.00	0.81608	372365.91	3768820.00	0.81195
371340.91	3768845.00	1.06054	371365.91	3768845.00	1.06559
371390.91	3768845.00	1.06104	371415.91	3768845.00	1.07351
371440.91	3768845.00	1.07720	371465.91	3768845.00	1.06662
371490.91	3768845.00	1.03697	371515.91	3768845.00	0.99126
371540.91	3768845.00	0.91644	371565.91	3768845.00	0.82461
371590.91	3768845.00	0.71601	371615.91	3768845.00	0.59222
371640.91	3768845.00	0.44250	371665.91	3768845.00	0.29409
371690.91	3768845.00	0.18795	371715.91	3768845.00	0.16997
371740.91	3768845.00	0.24966	371765.91	3768845.00	0.35291

CONC URBAN ELEV
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*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1 ***
INCLUDING SOURCE(S): SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371790.91	3768845.00	0.42259	371815.91	3768845.00	0.48579
371840.91	3768845.00	0.61080	371865.91	3768845.00	0.82359
371890.91	3768845.00	0.99855	371915.91	3768845.00	1.09820
371940.91	3768845.00	1.11011	371965.91	3768845.00	1.09542
371990.91	3768845.00	1.06050	372015.91	3768845.00	1.04684
372040.91	3768845.00	1.02797	372065.91	3768845.00	1.01191
372090.91	3768845.00	0.98958	372115.91	3768845.00	0.97297
372140.91	3768845.00	0.95339	372165.91	3768845.00	0.94109
372190.91	3768845.00	0.92960	372215.91	3768845.00	0.92808
372240.91	3768845.00	0.92256	372265.91	3768845.00	0.92314
372290.91	3768845.00	0.91732	372315.91	3768845.00	0.91911
372340.91	3768845.00	0.91391	372365.91	3768845.00	0.91206
371340.91	3768870.00	1.20047	371365.91	3768870.00	1.21605
371390.91	3768870.00	1.21252	371415.91	3768870.00	1.22909
371440.91	3768870.00	1.23799	371465.91	3768870.00	1.24748
371490.91	3768870.00	1.23654	371515.91	3768870.00	1.21257
371540.91	3768870.00	1.14225	371565.91	3768870.00	1.05499
371590.91	3768870.00	0.91427	371615.91	3768870.00	0.75737
371640.91	3768870.00	0.56055	371665.91	3768870.00	0.36390
371690.91	3768870.00	0.19056	371715.91	3768870.00	0.12977
371740.91	3768870.00	0.17770	371765.91	3768870.00	0.26377
371790.91	3768870.00	0.31893	371815.91	3768870.00	0.38635
371840.91	3768870.00	0.54998	371865.91	3768870.00	0.76715
371890.91	3768870.00	0.89296	371915.91	3768870.00	0.97110
371940.91	3768870.00	0.98196	371965.91	3768870.00	1.00052
371990.91	3768870.00	0.98301	372015.91	3768870.00	1.00647
372040.91	3768870.00	1.00029	372065.91	3768870.00	1.01064
372090.91	3768870.00	1.00351	372115.91	3768870.00	1.01289
372140.91	3768870.00	1.01008	372165.91	3768870.00	1.02139

372190.91	3768870.00	1.02090	372215.91	3768870.00	1.03499
372240.91	3768870.00	1.03763	372265.91	3768870.00	1.04745
372290.91	3768870.00	1.04135	372315.91	3768870.00	1.04773
372340.91	3768870.00	1.04146	372365.91	3768870.00	1.03824
371340.91	3768895.00	1.38331	371365.91	3768895.00	1.40056
371390.91	3768895.00	1.40405	371415.91	3768895.00	1.43719
371440.91	3768895.00	1.46042	371465.91	3768895.00	1.48200
371490.91	3768895.00	1.48486	371515.91	3768895.00	1.47766
371540.91	3768895.00	1.42775	371565.91	3768895.00	1.34005
371590.91	3768895.00	1.19175	371615.91	3768895.00	0.98918
371640.91	3768895.00	0.73040	371665.91	3768895.00	0.45723

**MODELOPTs:

CONC URBAN ELEV HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1 ***
INCLUDING SOURCE(S): SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371690.91	3768895.00	0.21269	371715.91	3768895.00	0.09022
371740.91	3768895.00	0.09499	371765.91	3768895.00	0.14937
371790.91	3768895.00	0.18801	371815.91	3768895.00	0.26837
371840.91	3768895.00	0.41278	371865.91	3768895.00	0.57826
371890.91	3768895.00	0.73510	371915.91	3768895.00	0.82574
371940.91	3768895.00	0.88494	371965.91	3768895.00	0.93735
371990.91	3768895.00	0.96558	372015.91	3768895.00	1.01617
372040.91	3768895.00	1.03824	372065.91	3768895.00	1.08411
372090.91	3768895.00	1.11318	372115.91	3768895.00	1.14262
372140.91	3768895.00	1.16157	372165.91	3768895.00	1.18024
372190.91	3768895.00	1.19018	372215.91	3768895.00	1.19908
372240.91	3768895.00	1.19971	372265.91	3768895.00	1.20645
372290.91	3768895.00	1.20127	372315.91	3768895.00	1.19191

372340.91	3768895.00	1.18099	372365.91	3768895.00	1.16885
371340.91	3768920.00	1.54728	371365.91	3768920.00	1.59297
371390.91	3768920.00	1.61800	371415.91	3768920.00	1.67679
371440.91	3768920.00	1.71588	371465.91	3768920.00	1.76259
371490.91	3768920.00	1.79560	371515.91	3768920.00	1.80641
371540.91	3768920.00	1.75634	371565.91	3768920.00	1.69517
371590.91	3768920.00	1.53402	371615.91	3768920.00	1.31440
371640.91	3768920.00	0.98463	371665.91	3768920.00	0.60337
371690.91	3768920.00	0.26275	371715.91	3768920.00	0.07180
371740.91	3768920.00	0.02680	371765.91	3768920.00	0.04442
371790.91	3768920.00	0.06426	371815.91	3768920.00	0.13351
371840.91	3768920.00	0.24555	371865.91	3768920.00	0.40875
371890.91	3768920.00	0.58786	371915.91	3768920.00	0.74593
371940.91	3768920.00	0.85855	371965.91	3768920.00	0.98749
371990.91	3768920.00	1.06343	372015.91	3768920.00	1.15582
372040.91	3768920.00	1.21574	372065.91	3768920.00	1.29175
372090.91	3768920.00	1.32890	372115.91	3768920.00	1.36817
372140.91	3768920.00	1.37641	372165.91	3768920.00	1.39246
372190.91	3768920.00	1.38303	372215.91	3768920.00	1.38569
372240.91	3768920.00	1.37180	372265.91	3768920.00	1.36678
372290.91	3768920.00	1.34653	372315.91	3768920.00	1.33078
372340.91	3768920.00	1.30162	372365.91	3768920.00	1.28365
371340.91	3768945.00	1.68796	371365.91	3768945.00	1.74805
371390.91	3768945.00	1.81546	371415.91	3768945.00	1.89820
371440.91	3768945.00	1.97276	371465.91	3768945.00	2.05619
371490.91	3768945.00	2.12194	371515.91	3768945.00	2.16593
371540.91	3768945.00	2.16600	371565.91	3768945.00	2.12125

**MODELOPTs:

CONC URBAN ELEV HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1 ***
INCLUDING SOURCE(S): SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC

- - - -

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: 1 ***
INCLUDING SOURCE(S): SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371490.91	3768995.00	2.45468	371515.91	3768995.00	2.58052
371540.91	3768995.00	2.68244	371565.91	3768995.00	2.74645
371590.91	3768995.00	2.73142	371615.91	3768995.00	2.56112
371640.91	3768995.00	2.16916	371665.91	3768995.00	1.51383
371690.91	3768995.00	0.66951	371715.91	3768995.00	0.05429
371815.91	3768995.00	0.17788	371840.91	3768995.00	1.11283
371865.91	3768995.00	1.91082	371890.91	3768995.00	2.28504
371915.91	3768995.00	2.41652	371940.91	3768995.00	2.40527
371965.91	3768995.00	2.37843	371990.91	3768995.00	2.28878
372015.91	3768995.00	2.23447	372040.91	3768995.00	2.16650
372065.91	3768995.00	2.10694	372090.91	3768995.00	2.04907
372115.91	3768995.00	2.00992	372140.91	3768995.00	1.94728
372165.91	3768995.00	1.89700	372190.91	3768995.00	1.83434
372215.91	3768995.00	1.78279	372240.91	3768995.00	1.72426
372265.91	3768995.00	1.67560	372290.91	3768995.00	1.62680
372315.91	3768995.00	1.58244	372340.91	3768995.00	1.53165
372365.91	3768995.00	1.49119	371340.91	3769020.00	1.84240
371365.91	3769020.00	1.94721	371390.91	3769020.00	2.05094
371415.91	3769020.00	2.17191	371440.91	3769020.00	2.28346
371465.91	3769020.00	2.42960	371490.91	3769020.00	2.54585
371515.91	3769020.00	2.69482	371540.91	3769020.00	2.80854
371565.91	3769020.00	2.90710	371590.91	3769020.00	2.90667
371615.91	3769020.00	2.80139	371640.91	3769020.00	2.42885
371665.91	3769020.00	1.84935	371690.91	3769020.00	1.04596
371715.91	3769020.00	0.28971	371740.91	3769020.00	0.00175
371765.91	3769020.00	0.00019	371790.91	3769020.00	0.16227
371815.91	3769020.00	2.27939	371840.91	3769020.00	4.41021

371865.91	3769020.00	4.99131	371890.91	3769020.00	4.74325
371915.91	3769020.00	4.29908	371940.91	3769020.00	3.79657
371965.91	3769020.00	3.45000	371990.91	3769020.00	3.09359
372015.91	3769020.00	2.85856	372040.91	3769020.00	2.64182
372065.91	3769020.00	2.50037	372090.91	3769020.00	2.35352
372115.91	3769020.00	2.25327	372140.91	3769020.00	2.14121
372165.91	3769020.00	2.05886	372190.91	3769020.00	1.96224
372215.91	3769020.00	1.90090	372240.91	3769020.00	1.81512
372265.91	3769020.00	1.76153	372290.91	3769020.00	1.69560
372315.91	3769020.00	1.64590	372340.91	3769020.00	1.58640
372365.91	3769020.00	1.53956	371340.91	3769045.00	1.87742
371365.91	3769045.00	1.97998	371390.91	3769045.00	2.08756
371415.91	3769045.00	2.20284	371440.91	3769045.00	2.32221

**MODELOPTs:

CONC URBAN ELEV HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1 ***
INCLUDING SOURCE(S): SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371465.91	3769045.00	2.44399	371490.91	3769045.00	2.56535
371515.91	3769045.00	2.71796	371540.91	3769045.00	2.82753
371565.91	3769045.00	2.93425	371590.91	3769045.00	2.97579
371615.91	3769045.00	2.94359	371640.91	3769045.00	2.72822
371665.91	3769045.00	2.31427	371690.91	3769045.00	1.65088
371715.91	3769045.00	0.96242	371740.91	3769045.00	0.48502
371765.91	3769045.00	0.54861	371790.91	3769045.00	2.27579
371815.91	3769045.00	7.01850	371840.91	3769045.00	9.53441
371865.91	3769045.00	9.28931	371890.91	3769045.00	8.01090
371915.91	3769045.00	6.76379	371940.91	3769045.00	5.65668
371965.91	3769045.00	4.82480	371990.91	3769045.00	4.16209

372015.91	3769045.00	3.65661	372040.91	3769045.00	3.26788
372065.91	3769045.00	2.98625	372090.91	3769045.00	2.74139
372115.91	3769045.00	2.56017	372140.91	3769045.00	2.40004
372165.91	3769045.00	2.26702	372190.91	3769045.00	2.14309
372215.91	3769045.00	2.04206	372240.91	3769045.00	1.94215
372265.91	3769045.00	1.86138	372290.91	3769045.00	1.78653
372315.91	3769045.00	1.72664	372340.91	3769045.00	1.65397
372365.91	3769045.00	1.59467	371340.91	3769070.00	1.86249
371365.91	3769070.00	1.96759	371390.91	3769070.00	2.05823
371415.91	3769070.00	2.16660	371440.91	3769070.00	2.26749
371465.91	3769070.00	2.38193	371490.91	3769070.00	2.48660
371515.91	3769070.00	2.63764	371540.91	3769070.00	2.76550
371565.91	3769070.00	2.90945	371590.91	3769070.00	3.00907
371615.91	3769070.00	3.06956	371640.91	3769070.00	2.92398
371665.91	3769070.00	2.60401	371690.91	3769070.00	2.14288
371715.91	3769070.00	1.78071	371740.91	3769070.00	1.66626
371765.91	3769070.00	2.25980	371790.91	3769070.00	4.50977
371815.91	3769070.00	9.11193	371840.91	3769070.00	12.15707
371865.91	3769070.00	12.26462	371890.91	3769070.00	10.79270
371915.91	3769070.00	9.08414	371940.91	3769070.00	7.47743
371965.91	3769070.00	6.25846	371990.91	3769070.00	5.26189
372015.91	3769070.00	4.55240	372040.91	3769070.00	3.93729
372065.91	3769070.00	3.52717	372090.91	3769070.00	3.15880
372115.91	3769070.00	2.90735	372140.91	3769070.00	2.66334
372165.91	3769070.00	2.49487	372190.91	3769070.00	2.31657
372215.91	3769070.00	2.19538	372240.91	3769070.00	2.06173
372265.91	3769070.00	1.96890	372290.91	3769070.00	1.88153
372315.91	3769070.00	1.80017	372340.91	3769070.00	1.71514
372365.91	3769070.00	1.64866	371340.91	3769095.00	1.80748

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1 ***
INCLUDING SOURCE(S): SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371365.91	3769095.00	1.88890	371390.91	3769095.00	1.97427
371415.91	3769095.00	2.06954	371440.91	3769095.00	2.16416
371465.91	3769095.00	2.27890	371490.91	3769095.00	2.40244
371515.91	3769095.00	2.56361	371540.91	3769095.00	2.72633
371565.91	3769095.00	2.89944	371590.91	3769095.00	3.00465
371615.91	3769095.00	3.01901	371640.91	3769095.00	2.90099
371665.91	3769095.00	2.72594	371690.91	3769095.00	2.46112
371715.91	3769095.00	2.36579	371740.91	3769095.00	2.58689
371765.91	3769095.00	3.38128	371790.91	3769095.00	5.31606
371815.91	3769095.00	8.73603	371840.91	3769095.00	11.79869
371865.91	3769095.00	12.89437	371890.91	3769095.00	12.06697
371915.91	3769095.00	10.56047	371940.91	3769095.00	8.93876
371965.91	3769095.00	7.54216	371990.91	3769095.00	6.32605
372015.91	3769095.00	5.40761	372040.91	3769095.00	4.65614
372065.91	3769095.00	4.08136	372090.91	3769095.00	3.61939
372115.91	3769095.00	3.25864	372140.91	3769095.00	2.96379
372165.91	3769095.00	2.73059	372190.91	3769095.00	2.52078
372215.91	3769095.00	2.35783	372240.91	3769095.00	2.20551
372265.91	3769095.00	2.08381	372290.91	3769095.00	1.97076
372315.91	3769095.00	1.87537	372340.91	3769095.00	1.78069
372365.91	3769095.00	1.70267	371340.91	3769120.00	1.71048
371365.91	3769120.00	1.79140	371390.91	3769120.00	1.86825
371415.91	3769120.00	1.97335	371440.91	3769120.00	2.07307
371465.91	3769120.00	2.21085	371490.91	3769120.00	2.34722
371515.91	3769120.00	2.52332	371540.91	3769120.00	2.66502
371565.91	3769120.00	2.78905	371590.91	3769120.00	2.82162
371615.91	3769120.00	2.82660	371640.91	3769120.00	2.77011
371665.91	3769120.00	2.70779	371690.91	3769120.00	2.59695
371715.91	3769120.00	2.70255	371740.91	3769120.00	3.03160
371765.91	3769120.00	3.78884	371790.91	3769120.00	5.24664
371815.91	3769120.00	7.58074	371840.91	3769120.00	10.05839
371865.91	3769120.00	11.74990	371890.91	3769120.00	11.76172
371915.91	3769120.00	10.93170	371940.91	3769120.00	9.63756
371965.91	3769120.00	8.39142	371990.91	3769120.00	7.14728
372015.91	3769120.00	6.14912	372040.91	3769120.00	5.27400
372065.91	3769120.00	4.61465	372090.91	3769120.00	4.05990
372115.91	3769120.00	3.62580	372140.91	3769120.00	3.25524
372165.91	3769120.00	2.97569	372190.91	3769120.00	2.71393
372215.91	3769120.00	2.52052	372240.91	3769120.00	2.34087
372265.91	3769120.00	2.19588	372290.91	3769120.00	2.06001

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*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1 ***
INCLUDING SOURCE(S): SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372315.91	3769120.00	1.94446	372340.91	3769120.00	1.83859
372365.91	3769120.00	1.75476	371340.91	3769145.00	1.62705
371365.91	3769145.00	1.70955	371390.91	3769145.00	1.79782
371415.91	3769145.00	1.91254	371440.91	3769145.00	2.02639
371465.91	3769145.00	2.16520	371490.91	3769145.00	2.29439
371515.91	3769145.00	2.42907	371540.91	3769145.00	2.51674
371565.91	3769145.00	2.58397	371590.91	3769145.00	2.60461
371615.91	3769145.00	2.63980	371640.91	3769145.00	2.63395
371665.91	3769145.00	2.60183	371690.91	3769145.00	2.60648
371715.91	3769145.00	2.81848	371740.91	3769145.00	3.20874
371765.91	3769145.00	3.81341	371790.91	3769145.00	4.88276
371815.91	3769145.00	6.47347	371840.91	3769145.00	8.33437
371865.91	3769145.00	9.97214	371890.91	3769145.00	10.66608
371915.91	3769145.00	10.48842	371940.91	3769145.00	9.68600
371965.91	3769145.00	8.68076	371990.91	3769145.00	7.63442
372015.91	3769145.00	6.68980	372040.91	3769145.00	5.80200
372065.91	3769145.00	5.08889	372090.91	3769145.00	4.47132
372115.91	3769145.00	3.97907	372140.91	3769145.00	3.56650
372165.91	3769145.00	3.23143	372190.91	3769145.00	2.93694
372215.91	3769145.00	2.69863	372240.91	3769145.00	2.48255
372265.91	3769145.00	2.31371	372290.91	3769145.00	2.15530
372315.91	3769145.00	2.02632	372340.91	3769145.00	1.90753
372365.91	3769145.00	1.80634	371340.91	3769170.00	1.56598
371365.91	3769170.00	1.65845	371390.91	3769170.00	1.75416
371415.91	3769170.00	1.87185	371440.91	3769170.00	1.97482

371465.91	3769170.00	2.09003	371490.91	3769170.00	2.17262
371515.91	3769170.00	2.26322	371540.91	3769170.00	2.30771
371565.91	3769170.00	2.36131	371590.91	3769170.00	2.40744
371615.91	3769170.00	2.45259	371640.91	3769170.00	2.44875
371665.91	3769170.00	2.45682	371690.91	3769170.00	2.55246
371715.91	3769170.00	2.82272	371740.91	3769170.00	3.14863
371765.91	3769170.00	3.64843	371790.91	3769170.00	4.43176
371815.91	3769170.00	5.53018	371840.91	3769170.00	6.81416
371865.91	3769170.00	8.21164	371890.91	3769170.00	9.13893
371915.91	3769170.00	9.50231	371940.91	3769170.00	9.13567
371965.91	3769170.00	8.50230	371990.91	3769170.00	7.66934
372015.91	3769170.00	6.89415	372040.91	3769170.00	6.10968
372065.91	3769170.00	5.41843	372090.91	3769170.00	4.78686
372115.91	3769170.00	4.29741	372140.91	3769170.00	3.84004
372165.91	3769170.00	3.47331	372190.91	3769170.00	3.14233

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1 ***
INCLUDING SOURCE(S): SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372215.91	3769170.00	2.87090	372240.91	3769170.00	2.63093
372265.91	3769170.00	2.43485	372290.91	3769170.00	2.25324
372315.91	3769170.00	2.10897	372340.91	3769170.00	1.97532
372365.91	3769170.00	1.86396	371340.91	3769195.00	1.53094
371365.91	3769195.00	1.62409	371390.91	3769195.00	1.71355
371415.91	3769195.00	1.81217	371440.91	3769195.00	1.89579
371465.91	3769195.00	1.97120	371490.91	3769195.00	2.02522
371515.91	3769195.00	2.07576	371540.91	3769195.00	2.11571
371565.91	3769195.00	2.18164	371590.91	3769195.00	2.23416
371615.91	3769195.00	2.26782	371640.91	3769195.00	2.27067

371665.91	3769195.00	2.31668	371690.91	3769195.00	2.46624
371715.91	3769195.00	2.73173	371740.91	3769195.00	3.02392
371765.91	3769195.00	3.42400	371790.91	3769195.00	4.01661
371815.91	3769195.00	4.80031	371840.91	3769195.00	5.71066
371865.91	3769195.00	6.74056	371890.91	3769195.00	7.68060
371915.91	3769195.00	8.25414	371940.91	3769195.00	8.30049
371965.91	3769195.00	7.99281	371990.91	3769195.00	7.42828
372015.91	3769195.00	6.85085	372040.91	3769195.00	6.19401
372065.91	3769195.00	5.60467	372090.91	3769195.00	5.04675
372115.91	3769195.00	4.55203	372140.91	3769195.00	4.08709
372165.91	3769195.00	3.69699	372190.91	3769195.00	3.34237
372215.91	3769195.00	3.05169	372240.91	3769195.00	2.78728
372265.91	3769195.00	2.56585	372290.91	3769195.00	2.37105
372315.91	3769195.00	2.20588	372340.91	3769195.00	2.05699
372365.91	3769195.00	1.93189	371340.91	3769220.00	1.49269
371365.91	3769220.00	1.57795	371390.91	3769220.00	1.64646
371415.91	3769220.00	1.71878	371440.91	3769220.00	1.76841
371465.91	3769220.00	1.82290	371490.91	3769220.00	1.85307
371515.91	3769220.00	1.90725	371540.91	3769220.00	1.96000
371565.91	3769220.00	2.02857	371590.91	3769220.00	2.06864
371615.91	3769220.00	2.09369	371640.91	3769220.00	2.09582
371665.91	3769220.00	2.18462	371690.91	3769220.00	2.34993
371715.91	3769220.00	2.60743	371740.91	3769220.00	2.85512
371765.91	3769220.00	3.19613	371790.91	3769220.00	3.62484
371815.91	3769220.00	4.21228	371840.91	3769220.00	4.85036
371865.91	3769220.00	5.60092	371890.91	3769220.00	6.36478
371915.91	3769220.00	7.04202	371940.91	3769220.00	7.31833
371965.91	3769220.00	7.30587	371990.91	3769220.00	6.98414
372015.91	3769220.00	6.57101	372040.91	3769220.00	6.06748
372065.91	3769220.00	5.61149	372090.91	3769220.00	5.11795

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*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1 ***
INCLUDING SOURCE(S): SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372115.91	3769220.00	4.67773	372140.91	3769220.00	4.23257
372165.91	3769220.00	3.86145	372190.91	3769220.00	3.50691
372215.91	3769220.00	3.20453	372240.91	3769220.00	2.92578
372265.91	3769220.00	2.69275	372290.91	3769220.00	2.47434
372315.91	3769220.00	2.30134	372340.91	3769220.00	2.13717
372365.91	3769220.00	2.00282	371340.91	3769245.00	1.44037
371365.91	3769245.00	1.50722	371390.91	3769245.00	1.55889
371415.91	3769245.00	1.60427	371440.91	3769245.00	1.64203
371465.91	3769245.00	1.67912	371490.91	3769245.00	1.71719
371515.91	3769245.00	1.77210	371540.91	3769245.00	1.83071
371565.91	3769245.00	1.88667	371590.91	3769245.00	1.91233
371615.91	3769245.00	1.92645	371640.91	3769245.00	1.95842
371665.91	3769245.00	2.07157	371690.91	3769245.00	2.24065
371715.91	3769245.00	2.48389	371740.91	3769245.00	2.70329
371765.91	3769245.00	2.96548	371790.91	3769245.00	3.31297
371815.91	3769245.00	3.74042	371840.91	3769245.00	4.19399
371865.91	3769245.00	4.74266	371890.91	3769245.00	5.34854
371915.91	3769245.00	5.94076	371940.91	3769245.00	6.35366
371965.91	3769245.00	6.53035	371990.91	3769245.00	6.42740
372015.91	3769245.00	6.17801	372040.91	3769245.00	5.82262
372065.91	3769245.00	5.45403	372090.91	3769245.00	5.06727
372115.91	3769245.00	4.69594	372140.91	3769245.00	4.31335
372165.91	3769245.00	3.96574	372190.91	3769245.00	3.62883
372215.91	3769245.00	3.33057	372240.91	3769245.00	3.04721
372265.91	3769245.00	2.80758	372290.91	3769245.00	2.58711
372315.91	3769245.00	2.39942	372340.91	3769245.00	2.22737
372365.91	3769245.00	2.07971	371340.91	3769270.00	1.36728
371365.91	3769270.00	1.41511	371390.91	3769270.00	1.44900
371415.91	3769270.00	1.48623	371440.91	3769270.00	1.51237
371465.91	3769270.00	1.55490	371490.91	3769270.00	1.59923
371515.91	3769270.00	1.66130	371540.91	3769270.00	1.70656
371565.91	3769270.00	1.75300	371590.91	3769270.00	1.75687
371615.91	3769270.00	1.78318	371640.91	3769270.00	1.83061
371665.91	3769270.00	1.96230	371690.91	3769270.00	2.13450
371715.91	3769270.00	2.34967	371740.91	3769270.00	2.53638
371765.91	3769270.00	2.75655	371790.91	3769270.00	3.03056
371815.91	3769270.00	3.35562	371840.91	3769270.00	3.68356
371865.91	3769270.00	4.08401	371890.91	3769270.00	4.52962
371915.91	3769270.00	5.02664	371940.91	3769270.00	5.46433

CONC URBAN ELEV
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*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1 ***
INCLUDING SOURCE(S): SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371965.91	3769270.00	5.75813	371990.91	3769270.00	5.79258
372015.91	3769270.00	5.71730	372040.91	3769270.00	5.47795
372065.91	3769270.00	5.21859	372090.91	3769270.00	4.90072
372115.91	3769270.00	4.60411	372140.91	3769270.00	4.28289
372165.91	3769270.00	3.98950	372190.91	3769270.00	3.68495
372215.91	3769270.00	3.40599	372240.91	3769270.00	3.13735
372265.91	3769270.00	2.90067	372290.91	3769270.00	2.67327
372315.91	3769270.00	2.48686	372340.91	3769270.00	2.30400
372365.91	3769270.00	2.15456	371340.91	3769295.00	1.28579
371365.91	3769295.00	1.31710	371390.91	3769295.00	1.34468
371415.91	3769295.00	1.37582	371440.91	3769295.00	1.40840
371465.91	3769295.00	1.45552	371490.91	3769295.00	1.50315
371515.91	3769295.00	1.55958	371540.91	3769295.00	1.59857
371565.91	3769295.00	1.61944	371590.91	3769295.00	1.62588
371615.91	3769295.00	1.66252	371640.91	3769295.00	1.73475
371665.91	3769295.00	1.86080	371690.91	3769295.00	2.02789
371715.91	3769295.00	2.22001	371740.91	3769295.00	2.38891
371765.91	3769295.00	2.57818	371790.91	3769295.00	2.79066
371815.91	3769295.00	3.04829	371840.91	3769295.00	3.28625
371865.91	3769295.00	3.57572	371890.91	3769295.00	3.90273
371915.91	3769295.00	4.29785	371940.91	3769295.00	4.69178
371965.91	3769295.00	5.01743	371990.91	3769295.00	5.18420
372015.91	3769295.00	5.20738	372040.91	3769295.00	5.08977
372065.91	3769295.00	4.91544	372090.91	3769295.00	4.68247
372115.91	3769295.00	4.44494	372140.91	3769295.00	4.18304

372165.91	3769295.00	3.94032	372190.91	3769295.00	3.67985
372215.91	3769295.00	3.43669	372240.91	3769295.00	3.18999
372265.91	3769295.00	2.96405	372290.91	3769295.00	2.74840
372315.91	3769295.00	2.55828	372340.91	3769295.00	2.37841
372365.91	3769295.00	2.22045	371340.91	3769320.00	1.19713
371365.91	3769320.00	1.22586	371390.91	3769320.00	1.24840
371415.91	3769320.00	1.28332	371440.91	3769320.00	1.32220
371465.91	3769320.00	1.37077	371490.91	3769320.00	1.41886
371515.91	3769320.00	1.46467	371540.91	3769320.00	1.48406
371565.91	3769320.00	1.49730	371590.91	3769320.00	1.51159
371615.91	3769320.00	1.56165	371640.91	3769320.00	1.64069
371665.91	3769320.00	1.77251	371690.91	3769320.00	1.92555
371715.91	3769320.00	2.10009	371740.91	3769320.00	2.24860
371765.91	3769320.00	2.41090	371790.91	3769320.00	2.57349
371815.91	3769320.00	2.78176	371840.91	3769320.00	2.96752
371865.91	3769320.00	3.17697	371890.91	3769320.00	3.41228

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1 ***
INCLUDING SOURCE(S): SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371915.91	3769320.00	3.71207	371940.91	3769320.00	4.03538
371965.91	3769320.00	4.35849	371990.91	3769320.00	4.57809
372015.91	3769320.00	4.69443	372040.91	3769320.00	4.66734
372065.91	3769320.00	4.58541	372090.91	3769320.00	4.41843
372115.91	3769320.00	4.23706	372140.91	3769320.00	4.03112
372165.91	3769320.00	3.83067	372190.91	3769320.00	3.61040
372215.91	3769320.00	3.40747	372240.91	3769320.00	3.19091
372265.91	3769320.00	2.99081	372290.91	3769320.00	2.78577
372315.91	3769320.00	2.60775	372340.91	3769320.00	2.43004

372365.91	3769320.00	2.27560	371340.91	3769345.00	1.11796
371365.91	3769345.00	1.14402	371390.91	3769345.00	1.17011
371415.91	3769345.00	1.20799	371440.91	3769345.00	1.24964
371465.91	3769345.00	1.29560	371490.91	3769345.00	1.33861
371515.91	3769345.00	1.36783	371540.91	3769345.00	1.37948
371565.91	3769345.00	1.39151	371590.91	3769345.00	1.41585
371615.91	3769345.00	1.47315	371640.91	3769345.00	1.56092
371665.91	3769345.00	1.68834	371690.91	3769345.00	1.83306
371715.91	3769345.00	1.99133	371740.91	3769345.00	2.12157
371765.91	3769345.00	2.25837	371790.91	3769345.00	2.40021
371815.91	3769345.00	2.55403	371840.91	3769345.00	2.69811
371865.91	3769345.00	2.85293	371890.91	3769345.00	3.02300
371915.91	3769345.00	3.24762	371940.91	3769345.00	3.50936
371965.91	3769345.00	3.79038	371990.91	3769345.00	4.03173
372015.91	3769345.00	4.19957	372040.91	3769345.00	4.26063
372065.91	3769345.00	4.23948	372090.91	3769345.00	4.13860
372115.91	3769345.00	4.01376	372140.91	3769345.00	3.84947
372165.91	3769345.00	3.68688	372190.91	3769345.00	3.50904
372215.91	3769345.00	3.33653	372240.91	3769345.00	3.15269
372265.91	3769345.00	2.97884	372290.91	3769345.00	2.80108
372315.91	3769345.00	2.63256	372340.91	3769345.00	2.46788
372365.91	3769345.00	2.31357	371340.91	3769370.00	1.04529
371365.91	3769370.00	1.07474	371390.91	3769370.00	1.10285
371415.91	3769370.00	1.14474	371440.91	3769370.00	1.18464
371465.91	3769370.00	1.22534	371490.91	3769370.00	1.25530
371515.91	3769370.00	1.27511	371540.91	3769370.00	1.28141
371565.91	3769370.00	1.29741	371590.91	3769370.00	1.32974
371615.91	3769370.00	1.39712	371640.91	3769370.00	1.48651
371665.91	3769370.00	1.61056	371690.91	3769370.00	1.74068
371715.91	3769370.00	1.88853	371740.91	3769370.00	1.99697
371765.91	3769370.00	2.12413	371790.91	3769370.00	2.23264

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1 ***
INCLUDING SOURCE(S): SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371815.91	3769370.00	2.36094	371840.91	3769370.00	2.47357
371865.91	3769370.00	2.58913	371890.91	3769370.00	2.71169
371915.91	3769370.00	2.88245	371940.91	3769370.00	3.07553
371965.91	3769370.00	3.31709	371990.91	3769370.00	3.54258
372015.91	3769370.00	3.73736	372040.91	3769370.00	3.84725
372065.91	3769370.00	3.88721	372090.91	3769370.00	3.84599
372115.91	3769370.00	3.76758	372140.91	3769370.00	3.64792
372165.91	3769370.00	3.51616	372190.91	3769370.00	3.37124
372215.91	3769370.00	3.23051	372240.91	3769370.00	3.07389
372265.91	3769370.00	2.93076	372290.91	3769370.00	2.77224
372315.91	3769370.00	2.62836	372340.91	3769370.00	2.47768
372365.91	3769370.00	2.33682	371340.91	3769395.00	0.98781
371365.91	3769395.00	1.01681	371390.91	3769395.00	1.05047
371415.91	3769395.00	1.09042	371440.91	3769395.00	1.12510
371465.91	3769395.00	1.15609	371490.91	3769395.00	1.17512
371515.91	3769395.00	1.18634	371540.91	3769395.00	1.19405
371565.91	3769395.00	1.21723	371590.91	3769395.00	1.25988
371615.91	3769395.00	1.32974	371640.91	3769395.00	1.41959
371665.91	3769395.00	1.53661	371690.91	3769395.00	1.66480
371715.91	3769395.00	1.79156	371740.91	3769395.00	1.89489
371765.91	3769395.00	1.99522	371790.91	3769395.00	2.08951
371815.91	3769395.00	2.19619	371840.91	3769395.00	2.28384
371865.91	3769395.00	2.37075	371890.91	3769395.00	2.46045
371915.91	3769395.00	2.58185	371940.91	3769395.00	2.73071
371965.91	3769395.00	2.92242	371990.91	3769395.00	3.12606
372015.91	3769395.00	3.32104	372040.91	3769395.00	3.45908
372065.91	3769395.00	3.54242	372090.91	3769395.00	3.55332
372115.91	3769395.00	3.51509	372140.91	3769395.00	3.43613
372165.91	3769395.00	3.33403	372190.91	3769395.00	3.22161
372215.91	3769395.00	3.10461	372240.91	3769395.00	2.97887
372265.91	3769395.00	2.85481	372290.91	3769395.00	2.72424
372315.91	3769395.00	2.59752	372340.91	3769395.00	2.46426
372365.91	3769395.00	2.33871	371340.91	3769420.00	0.93680
371365.91	3769420.00	0.96830	371390.91	3769420.00	1.00193
371415.91	3769420.00	1.03864	371440.91	3769420.00	1.06578
371465.91	3769420.00	1.08827	371490.91	3769420.00	1.09918
371515.91	3769420.00	1.10690	371540.91	3769420.00	1.11740
371565.91	3769420.00	1.14882	371590.91	3769420.00	1.19535

371615.91	3769420.00	1.27011	371640.91	3769420.00	1.35357
371665.91	3769420.00	1.46929	371690.91	3769420.00	1.58712

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1 ***
INCLUDING SOURCE(S): SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371715.91	3769420.00	1.70145	371740.91	3769420.00	1.79098
371765.91	3769420.00	1.87912	371790.91	3769420.00	1.95847
371815.91	3769420.00	2.04824	371840.91	3769420.00	2.11374
371865.91	3769420.00	2.18866	371890.91	3769420.00	2.24555
371915.91	3769420.00	2.33678	371940.91	3769420.00	2.44380
371965.91	3769420.00	2.59721	371990.91	3769420.00	2.76519
372015.91	3769420.00	2.94866	372040.91	3769420.00	3.09447
372065.91	3769420.00	3.21457	372090.91	3769420.00	3.25666
372115.91	3769420.00	3.26574	372140.91	3769420.00	3.21820
372165.91	3769420.00	3.14981	372190.91	3769420.00	3.05778
372215.91	3769420.00	2.96855	372240.91	3769420.00	2.86130
372265.91	3769420.00	2.75947	372290.91	3769420.00	2.64459
372315.91	3769420.00	2.54285	372340.91	3769420.00	2.42621
372365.91	3769420.00	2.31614	371340.91	3769445.00	0.89462
371365.91	3769445.00	0.92628	371390.91	3769445.00	0.95852
371415.91	3769445.00	0.98794	371440.91	3769445.00	1.00895
371465.91	3769445.00	1.02375	371490.91	3769445.00	1.02905
371515.91	3769445.00	1.03834	371540.91	3769445.00	1.05427
371565.91	3769445.00	1.09082	371590.91	3769445.00	1.14230
371615.91	3769445.00	1.21395	371640.91	3769445.00	1.29925
371665.91	3769445.00	1.40641	371690.91	3769445.00	1.51582
371715.91	3769445.00	1.61915	371740.91	3769445.00	1.70106
371765.91	3769445.00	1.77747	371790.91	3769445.00	1.84190

371815.91	3769445.00	1.91788	371840.91	3769445.00	1.97545
371865.91	3769445.00	2.02683	371890.91	3769445.00	2.06979
371915.91	3769445.00	2.13460	371940.91	3769445.00	2.21559
371965.91	3769445.00	2.33243	371990.91	3769445.00	2.46780
372015.91	3769445.00	2.62740	372040.91	3769445.00	2.77673
372065.91	3769445.00	2.90124	372090.91	3769445.00	2.98074
372115.91	3769445.00	3.01883	372140.91	3769445.00	3.00504
372165.91	3769445.00	2.96457	372190.91	3769445.00	2.90080
372215.91	3769445.00	2.82489	372240.91	3769445.00	2.74039
372265.91	3769445.00	2.65522	372290.91	3769445.00	2.56112
372315.91	3769445.00	2.46989	372340.91	3769445.00	2.37208
372365.91	3769445.00	2.27880	371340.91	3769470.00	0.85785
371365.91	3769470.00	0.88911	371390.91	3769470.00	0.91417
371415.91	3769470.00	0.93852	371440.91	3769470.00	0.95209
371465.91	3769470.00	0.96261	371490.91	3769470.00	0.96487
371515.91	3769470.00	0.97734	371540.91	3769470.00	0.99892
371565.91	3769470.00	1.04008	371590.91	3769470.00	1.09309

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1 ***
INCLUDING SOURCE(S): SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371615.91	3769470.00	1.16267	371640.91	3769470.00	1.24478
371665.91	3769470.00	1.34551	371690.91	3769470.00	1.44307
371715.91	3769470.00	1.54198	371740.91	3769470.00	1.61295
371765.91	3769470.00	1.68010	371790.91	3769470.00	1.73792
371815.91	3769470.00	1.79971	371840.91	3769470.00	1.84370
371865.91	3769470.00	1.88758	371890.91	3769470.00	1.92034
371915.91	3769470.00	1.96684	371940.91	3769470.00	2.02211
371965.91	3769470.00	2.10976	371990.91	3769470.00	2.21969

372015.91	3769470.00	2.35485	372040.91	3769470.00	2.48666
372065.91	3769470.00	2.61605	372090.91	3769470.00	2.71185
372115.91	3769470.00	2.77536	372140.91	3769470.00	2.79096
372165.91	3769470.00	2.78105	372190.91	3769470.00	2.73815
372215.91	3769470.00	2.68397	372240.91	3769470.00	2.61124
372265.91	3769470.00	2.54243	372290.91	3769470.00	2.46237
372315.91	3769470.00	2.38846	372340.91	3769470.00	2.30363
372365.91	3769470.00	2.22355	371340.91	3769495.00	0.82424
371365.91	3769495.00	0.85112	371390.91	3769495.00	0.87368
371415.91	3769495.00	0.89007	371440.91	3769495.00	0.89815
371465.91	3769495.00	0.90446	371490.91	3769495.00	0.91000
371515.91	3769495.00	0.92609	371540.91	3769495.00	0.95142
371565.91	3769495.00	0.99528	371590.91	3769495.00	1.04874
371615.91	3769495.00	1.11767	371640.91	3769495.00	1.19671
371665.91	3769495.00	1.29166	371690.91	3769495.00	1.38502
371715.91	3769495.00	1.46891	371740.91	3769495.00	1.53587
371765.91	3769495.00	1.59460	371790.91	3769495.00	1.64210
371815.91	3769495.00	1.69418	371840.91	3769495.00	1.73362
371865.91	3769495.00	1.76878	371890.91	3769495.00	1.79057
371915.91	3769495.00	1.82165	371940.91	3769495.00	1.86333
371965.91	3769495.00	1.92728	371990.91	3769495.00	2.01158
372015.91	3769495.00	2.12098	372040.91	3769495.00	2.24063
372065.91	3769495.00	2.36320	372090.91	3769495.00	2.46431
372115.91	3769495.00	2.54411	372140.91	3769495.00	2.58342
372165.91	3769495.00	2.59780	372190.91	3769495.00	2.57723
372215.91	3769495.00	2.54263	372240.91	3769495.00	2.48922
372265.91	3769495.00	2.43052	372290.91	3769495.00	2.36687
372315.91	3769495.00	2.30035	372340.91	3769495.00	2.22914
372365.91	3769495.00	2.16064	371340.91	3769520.00	0.79054
371365.91	3769520.00	0.81472	371390.91	3769520.00	0.83011
371415.91	3769520.00	0.84142	371440.91	3769520.00	0.84695
371465.91	3769520.00	0.85314	371490.91	3769520.00	0.86016

**MODELOPTs:

CONC URBAN ELEV HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1 ***
INCLUDING SOURCE(S): SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371515.91	3769520.00	0.87979	371540.91	3769520.00	0.90992
371565.91	3769520.00	0.95428	371590.91	3769520.00	1.00593
371615.91	3769520.00	1.07563	371640.91	3769520.00	1.15076
371665.91	3769520.00	1.24009	371690.91	3769520.00	1.32068
371715.91	3769520.00	1.40100	371740.91	3769520.00	1.45584
371765.91	3769520.00	1.51164	371790.91	3769520.00	1.54899
371815.91	3769520.00	1.59738	371840.91	3769520.00	1.62633
371865.91	3769520.00	1.65936	371890.91	3769520.00	1.67247
371915.91	3769520.00	1.69822	371940.91	3769520.00	1.72154
371965.91	3769520.00	1.77122	371990.91	3769520.00	1.83279
372015.91	3769520.00	1.92451	372040.91	3769520.00	2.02118
372065.91	3769520.00	2.13549	372090.91	3769520.00	2.23765
372115.91	3769520.00	2.32535	372140.91	3769520.00	2.38325
372165.91	3769520.00	2.41645	372190.91	3769520.00	2.41587
372215.91	3769520.00	2.39898	372240.91	3769520.00	2.36274
372265.91	3769520.00	2.31893	372290.91	3769520.00	2.26269
372315.91	3769520.00	2.20940	372340.91	3769520.00	2.14790
372365.91	3769520.00	2.09057	371340.91	3769545.00	0.76080
371365.91	3769545.00	0.77846	371390.91	3769545.00	0.78941
371415.91	3769545.00	0.79714	371440.91	3769545.00	0.80001
371465.91	3769545.00	0.80674	371490.91	3769545.00	0.81866
371515.91	3769545.00	0.84196	371540.91	3769545.00	0.87368
371565.91	3769545.00	0.91981	371590.91	3769545.00	0.97118
371615.91	3769545.00	1.03493	371640.91	3769545.00	1.10759
371665.91	3769545.00	1.19096	371690.91	3769545.00	1.26763
371715.91	3769545.00	1.33643	371740.91	3769545.00	1.38940
371765.91	3769545.00	1.43720	371790.91	3769545.00	1.47272
371815.91	3769545.00	1.50862	371840.91	3769545.00	1.53746
371865.91	3769545.00	1.56258	371890.91	3769545.00	1.57453
371915.91	3769545.00	1.58857	371940.91	3769545.00	1.60605
371965.91	3769545.00	1.64014	371990.91	3769545.00	1.68702
372015.91	3769545.00	1.75602	372040.91	3769545.00	1.83936
372065.91	3769545.00	1.93716	372090.91	3769545.00	2.03209
372115.91	3769545.00	2.12332	372140.91	3769545.00	2.19239
372165.91	3769545.00	2.23954	372190.91	3769545.00	2.25808
372215.91	3769545.00	2.26030	372240.91	3769545.00	2.23848
372265.91	3769545.00	2.20859	372290.91	3769545.00	2.16459

372315.91	3769545.00	2.11848	372340.91	3769545.00	2.06600
372365.91	3769545.00	2.01644	371340.91	3769570.00	0.72893
371365.91	3769570.00	0.74172	371390.91	3769570.00	0.74903

**MODELOPTs:

CONC URBAN ELEV HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1 ***
INCLUDING SOURCE(S): SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371415.91	3769570.00	0.75435	371440.91	3769570.00	0.75750
371465.91	3769570.00	0.76721	371490.91	3769570.00	0.78098
371515.91	3769570.00	0.80737	371540.91	3769570.00	0.84067
371565.91	3769570.00	0.88587	371590.91	3769570.00	0.93480
371615.91	3769570.00	0.99674	371640.91	3769570.00	1.06616
371665.91	3769570.00	1.14329	371690.91	3769570.00	1.21325
371715.91	3769570.00	1.27811	371740.91	3769570.00	1.32231
371765.91	3769570.00	1.36796	371790.91	3769570.00	1.39625
371815.91	3769570.00	1.43073	371840.91	3769570.00	1.45129
371865.91	3769570.00	1.47583	371890.91	3769570.00	1.48295
371915.91	3769570.00	1.49457	371940.91	3769570.00	1.50106
371965.91	3769570.00	1.52485	371990.91	3769570.00	1.55919
372015.91	3769570.00	1.61489	372040.91	3769570.00	1.67908
372065.91	3769570.00	1.76283	372090.91	3769570.00	1.84951
372115.91	3769570.00	1.93916	372140.91	3769570.00	2.00929
372165.91	3769570.00	2.07151	372190.91	3769570.00	2.10061
372215.91	3769570.00	2.12007	372240.91	3769570.00	2.11120
372265.91	3769570.00	2.09601	372290.91	3769570.00	2.06127
372315.91	3769570.00	2.02782	372340.91	3769570.00	1.98171
372365.91	3769570.00	1.94103	371340.91	3769595.00	0.69759
371365.91	3769595.00	0.70651	371390.91	3769595.00	0.71076
371415.91	3769595.00	0.71486	371440.91	3769595.00	0.71914

371465.91	3769595.00	0.73171	371490.91	3769595.00	0.74921
371515.91	3769595.00	0.77780	371540.91	3769595.00	0.81193
371565.91	3769595.00	0.85486	371590.91	3769595.00	0.90237
371615.91	3769595.00	0.96318	371640.91	3769595.00	1.02903
371665.91	3769595.00	1.09931	371690.91	3769595.00	1.16282
371715.91	3769595.00	1.22272	371740.91	3769595.00	1.26457
371765.91	3769595.00	1.30124	371790.91	3769595.00	1.32993
371815.91	3769595.00	1.35852	371840.91	3769595.00	1.37760
371865.91	3769595.00	1.39429	371890.91	3769595.00	1.40128
371915.91	3769595.00	1.40917	371940.91	3769595.00	1.41331
371965.91	3769595.00	1.42693	371990.91	3769595.00	1.44976
372015.91	3769595.00	1.49168	372040.91	3769595.00	1.54567
372065.91	3769595.00	1.61396	372090.91	3769595.00	1.68939
372115.91	3769595.00	1.77255	372140.91	3769595.00	1.84666
372165.91	3769595.00	1.91059	372190.91	3769595.00	1.95454
372215.91	3769595.00	1.98299	372240.91	3769595.00	1.99316
372265.91	3769595.00	1.98714	372290.91	3769595.00	1.96640
372315.91	3769595.00	1.93897	372340.91	3769595.00	1.90358

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*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1 ***
INCLUDING SOURCE(S): SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372365.91	3769595.00	1.86667	372390.91	3769170.00	1.76067
372415.91	3769170.00	1.67155	372390.91	3769195.00	1.81756
372415.91	3769195.00	1.71862	372324.62	3768512.50	0.73907
372240.62	3768308.50	0.49343	373073.12	3769250.00	0.70689
370888.16	3768917.00	0.80440	373073.78	3769299.75	0.69959
373076.31	3768939.25	0.67502	372601.41	3768361.25	0.45960
372301.84	3768327.50	0.56801	371747.22	3768345.00	0.30356

372389.25	3769329.00	2.15812	371296.72	3768889.25	1.32449
372959.97	3768868.75	0.69464	371735.91	3768977.75	0.00000
371738.66	3768975.00	0.00000	371763.66	3768974.50	0.00000
371788.62	3768974.25	0.00000	371791.47	3768974.00	0.00000
371794.09	3768976.75	0.00000	371794.53	3769001.75	0.00000
371794.62	3769008.00	0.00015	371769.62	3769008.50	0.00000
371744.62	3769009.00	0.00000	371736.47	3769009.00	0.00000
371736.03	3768984.00	0.00000	371735.91	3768977.75	0.00000

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 2 ***
INCLUDING SOURCE(S): SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371340.91	3768570.00	0.62697	371365.91	3768570.00	0.64707
371390.91	3768570.00	0.66539	371415.91	3768570.00	0.67913
371440.91	3768570.00	0.68346	371465.91	3768570.00	0.67755
371490.91	3768570.00	0.65593	371515.91	3768570.00	0.61565
371540.91	3768570.00	0.55612	371565.91	3768570.00	0.48930
371590.91	3768570.00	0.43868	371615.91	3768570.00	0.44969
371640.91	3768570.00	0.56842	371665.91	3768570.00	0.81969
371690.91	3768570.00	1.15980	371715.91	3768570.00	1.50976
371740.91	3768570.00	1.79251	371765.91	3768570.00	1.99200
371790.91	3768570.00	2.11509	371815.91	3768570.00	2.19037
371840.91	3768570.00	2.24088	371865.91	3768570.00	2.31093
371890.91	3768570.00	2.39092	371915.91	3768570.00	2.46616
371940.91	3768570.00	2.49721	371965.91	3768570.00	2.53418
371990.91	3768570.00	2.58198	372015.91	3768570.00	2.69372
372040.91	3768570.00	2.83699	372065.91	3768570.00	3.01654
372090.91	3768570.00	3.17491	372115.91	3768570.00	3.30354
372140.91	3768570.00	3.35915	372165.91	3768570.00	3.35675

372190.91	3768570.00	3.27161	372215.91	3768570.00	3.14647
372240.91	3768570.00	2.97314	372265.91	3768570.00	2.79024
372290.91	3768570.00	2.59639	372315.91	3768570.00	2.42133
372340.91	3768570.00	2.25287	372365.91	3768570.00	2.10952
371340.91	3768595.00	0.67791	371365.91	3768595.00	0.69898
371390.91	3768595.00	0.72153	371415.91	3768595.00	0.74216
371440.91	3768595.00	0.75585	371465.91	3768595.00	0.75955
371490.91	3768595.00	0.74773	371515.91	3768595.00	0.71523
371540.91	3768595.00	0.65795	371565.91	3768595.00	0.58208
371590.91	3768595.00	0.50941	371615.91	3768595.00	0.48671
371640.91	3768595.00	0.57752	371665.91	3768595.00	0.82894
371690.91	3768595.00	1.20975	371715.91	3768595.00	1.62667
371740.91	3768595.00	1.96946	371765.91	3768595.00	2.21118
371790.91	3768595.00	2.35708	371815.91	3768595.00	2.44106
371840.91	3768595.00	2.50147	371865.91	3768595.00	2.58895
371890.91	3768595.00	2.68440	371915.91	3768595.00	2.76327
371940.91	3768595.00	2.79573	371965.91	3768595.00	2.84575
371990.91	3768595.00	2.93006	372015.91	3768595.00	3.08893
372040.91	3768595.00	3.27530	372065.91	3768595.00	3.48268
372090.91	3768595.00	3.63734	372115.91	3768595.00	3.73039
372140.91	3768595.00	3.72221	372165.91	3768595.00	3.64023
372190.91	3768595.00	3.47832	372215.91	3768595.00	3.28006
372240.91	3768595.00	3.05487	372265.91	3768595.00	2.83901

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 2 ***
INCLUDING SOURCE(S): SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372290.91	3768595.00	2.62523	372315.91	3768595.00	2.44138

372340.91	3768595.00	2.27429	372365.91	3768595.00	2.13323
371340.91	3768620.00	0.74226	371365.91	3768620.00	0.76031
371390.91	3768620.00	0.78341	371415.91	3768620.00	0.80978
371440.91	3768620.00	0.83213	371465.91	3768620.00	0.84801
371490.91	3768620.00	0.84809	371515.91	3768620.00	0.82774
371540.91	3768620.00	0.77817	371565.91	3768620.00	0.69956
371590.91	3768620.00	0.60705	371615.91	3768620.00	0.54713
371640.91	3768620.00	0.59604	371665.91	3768620.00	0.83335
371690.91	3768620.00	1.25638	371715.91	3768620.00	1.75212
371740.91	3768620.00	2.17148	371765.91	3768620.00	2.46811
371790.91	3768620.00	2.63880	371815.91	3768620.00	2.73591
371840.91	3768620.00	2.81085	371865.91	3768620.00	2.91874
371890.91	3768620.00	3.03092	371915.91	3768620.00	3.10766
371940.91	3768620.00	3.14059	371965.91	3768620.00	3.22825
371990.91	3768620.00	3.36660	372015.91	3768620.00	3.58899
372040.91	3768620.00	3.81813	372065.91	3768620.00	4.03771
372090.91	3768620.00	4.14918	372115.91	3768620.00	4.16133
372140.91	3768620.00	4.05516	372165.91	3768620.00	3.87702
372190.91	3768620.00	3.62344	372215.91	3768620.00	3.37116
372240.91	3768620.00	3.10570	372265.91	3768620.00	2.87020
372290.91	3768620.00	2.64919	372315.91	3768620.00	2.46837
372340.91	3768620.00	2.30422	372365.91	3768620.00	2.16781
371340.91	3768645.00	0.82849	371365.91	3768645.00	0.83907
371390.91	3768645.00	0.85801	371415.91	3768645.00	0.88509
371440.91	3768645.00	0.91457	371465.91	3768645.00	0.94253
371490.91	3768645.00	0.95824	371515.91	3768645.00	0.95383
371540.91	3768645.00	0.91794	371565.91	3768645.00	0.84475
371590.91	3768645.00	0.73888	371615.91	3768645.00	0.64033
371640.91	3768645.00	0.63459	371665.91	3768645.00	0.83965
371690.91	3768645.00	1.29699	371715.91	3768645.00	1.88951
371740.91	3768645.00	2.41146	371765.91	3768645.00	2.77429
371790.91	3768645.00	2.97794	371815.91	3768645.00	3.09080
371840.91	3768645.00	3.18477	371865.91	3768645.00	3.32241
371890.91	3768645.00	3.44502	371915.91	3768645.00	3.52253
371940.91	3768645.00	3.58800	371965.91	3768645.00	3.73676
371990.91	3768645.00	3.95496	372015.91	3768645.00	4.24382
372040.91	3768645.00	4.50531	372065.91	3768645.00	4.66947
372090.91	3768645.00	4.68090	372115.91	3768645.00	4.57579
372140.91	3768645.00	4.34538	372165.91	3768645.00	4.05264

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*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 2 ***
INCLUDING SOURCE(S): SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372190.91	3768645.00	3.73102	372215.91	3768645.00	3.42857
372240.91	3768645.00	3.14362	372265.91	3768645.00	2.90502
372290.91	3768645.00	2.68862	372315.91	3768645.00	2.50923
372340.91	3768645.00	2.35129	372365.91	3768645.00	2.21801
371340.91	3768670.00	0.94597	371365.91	3768670.00	0.94664
371390.91	3768670.00	0.95558	371415.91	3768670.00	0.97718
371440.91	3768670.00	1.00761	371465.91	3768670.00	1.04590
371490.91	3768670.00	1.07689	371515.91	3768670.00	1.09348
371540.91	3768670.00	1.07747	371565.91	3768670.00	1.01937
371590.91	3768670.00	0.91047	371615.91	3768670.00	0.77682
371640.91	3768670.00	0.70684	371665.91	3768670.00	0.85444
371690.91	3768670.00	1.32962	371715.91	3768670.00	2.03364
371740.91	3768670.00	2.68718	371765.91	3768670.00	3.14266
371790.91	3768670.00	3.38242	371815.91	3768670.00	3.52360
371840.91	3768670.00	3.64275	371865.91	3768670.00	3.81889
371890.91	3768670.00	3.93789	371915.91	3768670.00	4.03801
371940.91	3768670.00	4.15118	371965.91	3768670.00	4.40477
371990.91	3768670.00	4.71018	372015.91	3768670.00	5.05066
372040.91	3768670.00	5.25962	372065.91	3768670.00	5.32478
372090.91	3768670.00	5.17949	372115.91	3768670.00	4.91255
372140.91	3768670.00	4.53890	372165.91	3768670.00	4.16558
372190.91	3768670.00	3.78515	372215.91	3768670.00	3.47347
372240.91	3768670.00	3.18534	372265.91	3768670.00	2.95152
372290.91	3768670.00	2.73803	372315.91	3768670.00	2.56945
372340.91	3768670.00	2.41007	372365.91	3768670.00	2.27646
371340.91	3768695.00	1.10233	371365.91	3768695.00	1.09513
371390.91	3768695.00	1.09213	371415.91	3768695.00	1.10115
371440.91	3768695.00	1.12473	371465.91	3768695.00	1.16346
371490.91	3768695.00	1.20840	371515.91	3768695.00	1.24642

371540.91	3768695.00	1.25714	371565.91	3768695.00	1.22450
371590.91	3768695.00	1.12607	371615.91	3768695.00	0.97246
371640.91	3768695.00	0.83146	371665.91	3768695.00	0.89022
371690.91	3768695.00	1.35154	371715.91	3768695.00	2.17719
371740.91	3768695.00	3.01365	371765.91	3768695.00	3.59406
371790.91	3768695.00	3.89322	371815.91	3768695.00	4.05586
371840.91	3768695.00	4.21893	371865.91	3768695.00	4.43293
371890.91	3768695.00	4.56870	371915.91	3768695.00	4.69951
371940.91	3768695.00	4.91237	371965.91	3768695.00	5.30086
371990.91	3768695.00	5.69867	372015.91	3768695.00	6.02103
372040.91	3768695.00	6.09931	372065.91	3768695.00	5.96351

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 2 ***
INCLUDING SOURCE(S): SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372090.91	3768695.00	5.60166	372115.91	3768695.00	5.16117
372140.91	3768695.00	4.67418	372165.91	3768695.00	4.23825
372190.91	3768695.00	3.84930	372215.91	3768695.00	3.53036
372240.91	3768695.00	3.25307	372265.91	3768695.00	3.02206
372290.91	3768695.00	2.81574	372315.91	3768695.00	2.64095
372340.91	3768695.00	2.47950	372365.91	3768695.00	2.33651
371340.91	3768720.00	1.29992	371365.91	3768720.00	1.29370
371390.91	3768720.00	1.28319	371415.91	3768720.00	1.27803
371440.91	3768720.00	1.28380	371465.91	3768720.00	1.31136
371490.91	3768720.00	1.35710	371515.91	3768720.00	1.41463
371540.91	3768720.00	1.45493	371565.91	3768720.00	1.45915
371590.91	3768720.00	1.38969	371615.91	3768720.00	1.23729
371640.91	3768720.00	1.03328	371665.91	3768720.00	0.97129
371690.91	3768720.00	1.36662	371715.91	3768720.00	2.32299

371740.91	3768720.00	3.38979	371765.91	3768720.00	4.14919
371790.91	3768720.00	4.52194	371815.91	3768720.00	4.73116
371840.91	3768720.00	4.95081	371865.91	3768720.00	5.19900
371890.91	3768720.00	5.33850	371915.91	3768720.00	5.56738
371940.91	3768720.00	5.94421	371965.91	3768720.00	6.50237
371990.91	3768720.00	6.90335	372015.91	3768720.00	7.07911
372040.91	3768720.00	6.89792	372065.91	3768720.00	6.46941
372090.91	3768720.00	5.88486	372115.91	3768720.00	5.29873
372140.91	3768720.00	4.75166	372165.91	3768720.00	4.29908
372190.91	3768720.00	3.91006	372215.91	3768720.00	3.60985
372240.91	3768720.00	3.33343	372265.91	3768720.00	3.10841
372290.91	3768720.00	2.89225	372315.91	3768720.00	2.71637
372340.91	3768720.00	2.54280	372365.91	3768720.00	2.39345
371340.91	3768745.00	1.53433	371365.91	3768745.00	1.54295
371390.91	3768745.00	1.53897	371415.91	3768745.00	1.52843
371440.91	3768745.00	1.51778	371465.91	3768745.00	1.52180
371490.91	3768745.00	1.55064	371515.91	3768745.00	1.60882
371540.91	3768745.00	1.67654	371565.91	3768745.00	1.72467
371590.91	3768745.00	1.70770	371615.91	3768745.00	1.58220
371640.91	3768745.00	1.33870	371665.91	3768745.00	1.13866
371690.91	3768745.00	1.39258	371715.91	3768745.00	2.45069
371740.91	3768745.00	3.85241	371765.91	3768745.00	4.85583
371790.91	3768745.00	5.32756	371815.91	3768745.00	5.58358
371840.91	3768745.00	5.89683	371865.91	3768745.00	6.16888
371890.91	3768745.00	6.36103	371915.91	3768745.00	6.79000
371940.91	3768745.00	7.43108	371965.91	3768745.00	8.05878

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*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 2 ***
INCLUDING SOURCE(S): SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC

371990.91	3768745.00	8.29472	372015.91	3768745.00	8.14166
372040.91	3768745.00	7.54294	372065.91	3768745.00	6.82433
372090.91	3768745.00	6.04737	372115.91	3768745.00	5.40368
372140.91	3768745.00	4.83452	372165.91	3768745.00	4.40017
372190.91	3768745.00	4.02778	372215.91	3768745.00	3.72065
372240.91	3768745.00	3.44482	372265.91	3768745.00	3.20613
372290.91	3768745.00	2.98418	372315.91	3768745.00	2.78492
372340.91	3768745.00	2.60188	372365.91	3768745.00	2.44545
371340.91	3768770.00	1.79381	371365.91	3768770.00	1.83331
371390.91	3768770.00	1.85554	371415.91	3768770.00	1.86199
371440.91	3768770.00	1.85171	371465.91	3768770.00	1.83692
371490.91	3768770.00	1.83382	371515.91	3768770.00	1.86616
371540.91	3768770.00	1.93433	371565.91	3768770.00	2.02464
371590.91	3768770.00	2.07237	371615.91	3768770.00	2.01379
371640.91	3768770.00	1.78113	371665.91	3768770.00	1.44856
371690.91	3768770.00	1.46832	371715.91	3768770.00	2.55612
371740.91	3768770.00	4.37293	371765.91	3768770.00	5.75047
371790.91	3768770.00	6.37587	371815.91	3768770.00	6.70258
371840.91	3768770.00	7.10722	371865.91	3768770.00	7.42431
371890.91	3768770.00	7.76967	371915.91	3768770.00	8.58317
371940.91	3768770.00	9.41884	371965.91	3768770.00	9.92747
371990.91	3768770.00	9.65340	372015.91	3768770.00	8.96721
372040.91	3768770.00	7.92773	372065.91	3768770.00	7.00594
372090.91	3768770.00	6.14980	372115.91	3768770.00	5.51805
372140.91	3768770.00	4.95548	372165.91	3768770.00	4.54061
372190.91	3768770.00	4.15630	372215.91	3768770.00	3.84201
372240.91	3768770.00	3.54635	372265.91	3768770.00	3.29297
372290.91	3768770.00	3.05388	372315.91	3768770.00	2.85512
372340.91	3768770.00	2.66577	372365.91	3768770.00	2.50919
371340.91	3768795.00	2.06549	371365.91	3768795.00	2.14680
371390.91	3768795.00	2.21680	371415.91	3768795.00	2.26774
371440.91	3768795.00	2.29235	371465.91	3768795.00	2.29144
371490.91	3768795.00	2.27270	371515.91	3768795.00	2.26238
371540.91	3768795.00	2.29010	371565.91	3768795.00	2.38039
371590.91	3768795.00	2.49234	371615.91	3768795.00	2.53281
371640.91	3768795.00	2.38306	371665.91	3768795.00	1.97759
371690.91	3768795.00	1.68012	371715.91	3768795.00	2.62036
371740.91	3768795.00	4.98178	371765.91	3768795.00	6.93930
371790.91	3768795.00	7.75351	371815.91	3768795.00	8.20231
371840.91	3768795.00	8.75001	371865.91	3768795.00	9.14526

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*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 2 ***
INCLUDING SOURCE(S): SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371890.91	3768795.00	9.92939	371915.91	3768795.00	11.18943
371940.91	3768795.00	11.98868	371965.91	3768795.00	11.83333
371990.91	3768795.00	10.77133	372015.91	3768795.00	9.45849
372040.91	3768795.00	8.18380	372065.91	3768795.00	7.15608
372090.91	3768795.00	6.33696	372115.91	3768795.00	5.69676
372140.91	3768795.00	5.15732	372165.91	3768795.00	4.70429
372190.91	3768795.00	4.30379	372215.91	3768795.00	3.95913
372240.91	3768795.00	3.64864	372265.91	3768795.00	3.38330
372290.91	3768795.00	3.14882	372315.91	3768795.00	2.94937
372340.91	3768795.00	2.77015	372365.91	3768795.00	2.62361
371340.91	3768820.00	2.34680	371365.91	3768820.00	2.47281
371390.91	3768820.00	2.59785	371415.91	3768820.00	2.71776
371440.91	3768820.00	2.81626	371465.91	3768820.00	2.88400
371490.91	3768820.00	2.90545	371515.91	3768820.00	2.89199
371540.91	3768820.00	2.86352	371565.91	3768820.00	2.88973
371590.91	3768820.00	2.99928	371615.91	3768820.00	3.14454
371640.91	3768820.00	3.14421	371665.91	3768820.00	2.79980
371690.91	3768820.00	2.17298	371715.91	3768820.00	2.68446
371740.91	3768820.00	5.63338	371765.91	3768820.00	8.50724
371790.91	3768820.00	9.60346	371815.91	3768820.00	10.28472
371840.91	3768820.00	10.93823	371865.91	3768820.00	11.72981
371890.91	3768820.00	13.27361	371915.91	3768820.00	14.78458
371940.91	3768820.00	14.67904	371965.91	3768820.00	13.31006
371990.91	3768820.00	11.37086	372015.91	3768820.00	9.72114
372040.91	3768820.00	8.37402	372065.91	3768820.00	7.39518

372090.91	3768820.00	6.57504	372115.91	3768820.00	5.92947
372140.91	3768820.00	5.34514	372165.91	3768820.00	4.86719
372190.91	3768820.00	4.43332	372215.91	3768820.00	4.08806
372240.91	3768820.00	3.77939	372265.91	3768820.00	3.53084
372290.91	3768820.00	3.30531	372315.91	3768820.00	3.12612
372340.91	3768820.00	2.96223	372365.91	3768820.00	2.83026
371340.91	3768845.00	2.66127	371365.91	3768845.00	2.82353
371390.91	3768845.00	2.99549	371415.91	3768845.00	3.18734
371440.91	3768845.00	3.38234	371465.91	3768845.00	3.56457
371490.91	3768845.00	3.71071	371515.91	3768845.00	3.80018
371540.91	3768845.00	3.80774	371565.91	3768845.00	3.76775
371590.91	3768845.00	3.76712	371615.91	3768845.00	3.90590
371640.91	3768845.00	4.07948	371665.91	3768845.00	3.96472
371690.91	3768845.00	3.19185	371715.91	3768845.00	2.86453
371740.91	3768845.00	6.26112	371765.91	3768845.00	10.58092

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 2 ***
INCLUDING SOURCE(S): SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371790.91	3768845.00	12.11739	371815.91	3768845.00	13.23996
371840.91	3768845.00	14.10375	371865.91	3768845.00	16.02064
371890.91	3768845.00	18.44011	371915.91	3768845.00	18.84556
371940.91	3768845.00	16.75509	371965.91	3768845.00	14.03346
371990.91	3768845.00	11.67791	372015.91	3768845.00	10.01655
372040.91	3768845.00	8.73956	372065.91	3768845.00	7.72910
372090.91	3768845.00	6.87104	372115.91	3768845.00	6.16242
372140.91	3768845.00	5.55592	372165.91	3768845.00	5.06192
372190.91	3768845.00	4.64949	372215.91	3768845.00	4.32408
372240.91	3768845.00	4.04419	372265.91	3768845.00	3.81866

372290.91	3768845.00	3.61639	372315.91	3768845.00	3.45383
372340.91	3768845.00	3.30173	372365.91	3768845.00	3.17174
371340.91	3768870.00	3.05111	371365.91	3768870.00	3.25070
371390.91	3768870.00	3.46482	371415.91	3768870.00	3.71421
371440.91	3768870.00	3.99002	371465.91	3768870.00	4.29710
371490.91	3768870.00	4.61165	371515.91	3768870.00	4.91604
371540.91	3768870.00	5.13343	371565.91	3768870.00	5.24610
371590.91	3768870.00	5.19351	371615.91	3768870.00	5.15386
371640.91	3768870.00	5.27583	371665.91	3768870.00	5.50949
371690.91	3768870.00	4.94797	371715.91	3768870.00	3.65307
371740.91	3768870.00	6.69294	371765.91	3768870.00	13.49192
371790.91	3768870.00	15.70402	371815.91	3768870.00	17.56855
371840.91	3768870.00	19.35322	371865.91	3768870.00	23.42177
371890.91	3768870.00	24.65988	371915.91	3768870.00	21.80767
371940.91	3768870.00	17.59625	371965.91	3768870.00	14.49902
371990.91	3768870.00	12.10904	372015.91	3768870.00	10.53502
372040.91	3768870.00	9.15456	372065.91	3768870.00	8.09837
372090.91	3768870.00	7.18450	372115.91	3768870.00	6.49676
372140.91	3768870.00	5.91330	372165.91	3768870.00	5.47653
372190.91	3768870.00	5.09618	372215.91	3768870.00	4.81114
372240.91	3768870.00	4.55064	372265.91	3768870.00	4.33971
372290.91	3768870.00	4.12929	372315.91	3768870.00	3.96174
372340.91	3768870.00	3.79183	372365.91	3768870.00	3.64125
371340.91	3768895.00	3.54361	371365.91	3768895.00	3.79796
371390.91	3768895.00	4.07232	371415.91	3768895.00	4.39327
371440.91	3768895.00	4.75267	371465.91	3768895.00	5.16581
371490.91	3768895.00	5.63149	371515.91	3768895.00	6.16349
371540.91	3768895.00	6.71706	371565.91	3768895.00	7.24238
371590.91	3768895.00	7.59026	371615.91	3768895.00	7.64175
371640.91	3768895.00	7.44694	371665.91	3768895.00	7.56655

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 2 ***
INCLUDING SOURCE(S): SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371690.91	3768895.00	7.60276	371715.91	3768895.00	5.93503
371740.91	3768895.00	6.73387	371765.91	3768895.00	17.47967
371790.91	3768895.00	21.14104	371815.91	3768895.00	24.02264
371840.91	3768895.00	29.31198	371865.91	3768895.00	33.76229
371890.91	3768895.00	29.07923	371915.91	3768895.00	22.88466
371940.91	3768895.00	18.37787	371965.91	3768895.00	15.29851
371990.91	3768895.00	12.86193	372015.91	3768895.00	11.14619
372040.91	3768895.00	9.70546	372065.91	3768895.00	8.71703
372090.91	3768895.00	7.91084	372115.91	3768895.00	7.29143
372140.91	3768895.00	6.77431	372165.91	3768895.00	6.35199
372190.91	3768895.00	5.97810	372215.91	3768895.00	5.65381
372240.91	3768895.00	5.35296	372265.91	3768895.00	5.09521
372290.91	3768895.00	4.84218	372315.91	3768895.00	4.60508
372340.91	3768895.00	4.38543	372365.91	3768895.00	4.18137
371340.91	3768920.00	4.07769	371365.91	3768920.00	4.42786
371390.91	3768920.00	4.81106	371415.91	3768920.00	5.25701
371440.91	3768920.00	5.75181	371465.91	3768920.00	6.32316
371490.91	3768920.00	6.97580	371515.91	3768920.00	7.72734
371540.91	3768920.00	8.56155	371565.91	3768920.00	9.57790
371590.91	3768920.00	10.63162	371615.91	3768920.00	11.68478
371640.91	3768920.00	12.17813	371665.91	3768920.00	11.82863
371690.91	3768920.00	11.34440	371715.91	3768920.00	10.76775
371740.91	3768920.00	7.21642	371765.91	3768920.00	22.46382
371790.91	3768920.00	28.59581	371815.91	3768920.00	35.95584
371840.91	3768920.00	46.05375	371865.91	3768920.00	39.76626
371890.91	3768920.00	30.13126	371915.91	3768920.00	24.11301
371940.91	3768920.00	19.44303	371965.91	3768920.00	16.47033
371990.91	3768920.00	14.02935	372015.91	3768920.00	12.49310
372040.91	3768920.00	11.25144	372065.91	3768920.00	10.39687
372090.91	3768920.00	9.58425	372115.91	3768920.00	8.92367
372140.91	3768920.00	8.27769	372165.91	3768920.00	7.73889
372190.91	3768920.00	7.20726	372215.91	3768920.00	6.76232
372240.91	3768920.00	6.33205	372265.91	3768920.00	5.96221
372290.91	3768920.00	5.60199	372315.91	3768920.00	5.28315
372340.91	3768920.00	4.97231	372365.91	3768920.00	4.70549
371340.91	3768945.00	4.53242	371365.91	3768945.00	4.98885
371390.91	3768945.00	5.51580	371415.91	3768945.00	6.13279
371440.91	3768945.00	6.84850	371465.91	3768945.00	7.69492
371490.91	3768945.00	8.68352	371515.91	3768945.00	9.84247

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*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 2 ***
INCLUDING SOURCE(S): SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371540.91	3768945.00	11.18635	371565.91	3768945.00	12.77277
371590.91	3768945.00	14.63813	371615.91	3768945.00	16.88113
371640.91	3768945.00	19.35968	371665.91	3768945.00	21.57805
371690.91	3768945.00	21.28307	371715.91	3768945.00	18.76356
371740.91	3768945.00	12.51727	371765.91	3768945.00	25.90727
371790.91	3768945.00	38.14171	371815.91	3768945.00	62.35046
371840.91	3768945.00	53.64039	371865.91	3768945.00	40.60036
371890.91	3768945.00	31.77870	371915.91	3768945.00	26.60288
371940.91	3768945.00	22.76095	371965.91	3768945.00	20.12284
371990.91	3768945.00	18.04107	372015.91	3768945.00	16.27781
372040.91	3768945.00	14.72833	372065.91	3768945.00	13.38953
372090.91	3768945.00	12.15961	372115.91	3768945.00	11.10761
372140.91	3768945.00	10.13475	372165.91	3768945.00	9.29224
372190.91	3768945.00	8.51491	372215.91	3768945.00	7.86781
372240.91	3768945.00	7.26074	372265.91	3768945.00	6.74450
372290.91	3768945.00	6.27421	372315.91	3768945.00	5.86174
372340.91	3768945.00	5.47843	372365.91	3768945.00	5.13901
371340.91	3768970.00	4.79339	371365.91	3768970.00	5.32702
371390.91	3768970.00	5.95062	371415.91	3768970.00	6.70606
371440.91	3768970.00	7.60958	371465.91	3768970.00	8.72058
371490.91	3768970.00	10.06017	371515.91	3768970.00	11.77319
371540.91	3768970.00	13.87196	371565.91	3768970.00	16.57075
371590.91	3768970.00	20.02847	371615.91	3768970.00	24.57543
371640.91	3768970.00	30.03139	371665.91	3768970.00	36.79664
371690.91	3768970.00	43.50752	371715.91	3768970.00	46.35207

371740.91	3768970.00	28.25273	371765.91	3768970.00	17.21946
371790.91	3768970.00	45.20101	371815.91	3768970.00	64.81665
371840.91	3768970.00	55.88339	371865.91	3768970.00	50.13609
371890.91	3768970.00	44.30365	371915.91	3768970.00	39.07207
371940.91	3768970.00	33.49649	371965.91	3768970.00	28.94426
371990.91	3768970.00	24.77111	372015.91	3768970.00	21.47971
372040.91	3768970.00	18.65706	372065.91	3768970.00	16.45420
372090.91	3768970.00	14.54006	372115.91	3768970.00	12.99000
372140.91	3768970.00	11.59841	372165.91	3768970.00	10.49195
372190.91	3768970.00	9.49171	372215.91	3768970.00	8.66643
372240.91	3768970.00	7.90974	372265.91	3768970.00	7.31034
372290.91	3768970.00	6.74085	372315.91	3768970.00	6.25997
372340.91	3768970.00	5.81682	372365.91	3768970.00	5.43212
371340.91	3768995.00	4.88685	371365.91	3768995.00	5.44793
371390.91	3768995.00	6.11132	371415.91	3768995.00	6.91490
371440.91	3768995.00	7.88962	371465.91	3768995.00	9.09759

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CONC URBAN ELEV HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 2 ***
INCLUDING SOURCE(S): SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371490.91	3768995.00	10.59438	371515.91	3768995.00	12.52683
371540.91	3768995.00	15.03108	371565.91	3768995.00	18.36838
371590.91	3768995.00	22.93737	371615.91	3768995.00	29.34034
371640.91	3768995.00	38.70158	371665.91	3768995.00	52.87911
371690.91	3768995.00	73.99700	371715.91	3768995.00	104.03699
371815.91	3768995.00	119.99667	371840.91	3768995.00	110.11282
371865.91	3768995.00	88.57051	371890.91	3768995.00	68.86163
371915.91	3768995.00	54.29069	371940.91	3768995.00	43.17303
371965.91	3768995.00	35.48687	371990.91	3768995.00	29.14421

372015.91	3768995.00	24.63762	372040.91	3768995.00	21.00096
372065.91	3768995.00	18.15042	372090.91	3768995.00	15.85270
372115.91	3768995.00	14.04005	372140.91	3768995.00	12.45950
372165.91	3768995.00	11.17290	372190.91	3768995.00	10.05313
372215.91	3768995.00	9.12353	372240.91	3768995.00	8.30770
372265.91	3768995.00	7.61880	372290.91	3768995.00	7.01546
372315.91	3768995.00	6.49131	372340.91	3768995.00	6.01571
372365.91	3768995.00	5.60728	371340.91	3769020.00	4.91736
371365.91	3769020.00	5.48630	371390.91	3769020.00	6.16096
371415.91	3769020.00	6.97587	371440.91	3769020.00	7.95995
371465.91	3769020.00	9.19280	371490.91	3769020.00	10.71193
371515.91	3769020.00	12.68708	371540.91	3769020.00	15.22951
371565.91	3769020.00	18.65723	371590.91	3769020.00	23.27777
371615.91	3769020.00	29.89770	371640.91	3769020.00	39.11129
371665.91	3769020.00	52.82005	371690.91	3769020.00	71.17714
371715.91	3769020.00	95.65858	371740.91	3769020.00	112.27666
371765.91	3769020.00	114.77571	371790.91	3769020.00	404.87219
371815.91	3769020.00	243.81671	371840.91	3769020.00	141.75706
371865.91	3769020.00	100.07568	371890.91	3769020.00	74.36970
371915.91	3769020.00	57.59389	371940.91	3769020.00	45.06098
371965.91	3769020.00	36.99584	371990.91	3769020.00	30.20940
372015.91	3769020.00	25.48070	372040.91	3769020.00	21.60371
372065.91	3769020.00	18.73194	372090.91	3769020.00	16.27999
372115.91	3769020.00	14.38265	372140.91	3769020.00	12.73210
372165.91	3769020.00	11.40990	372190.91	3769020.00	10.23786
372215.91	3769020.00	9.30821	372240.91	3769020.00	8.44660
372265.91	3769020.00	7.75670	372290.91	3769020.00	7.12580
372315.91	3769020.00	6.59499	372340.91	3769020.00	6.10595
372365.91	3769020.00	5.68757	371340.91	3769045.00	4.94353
371365.91	3769045.00	5.51225	371390.91	3769045.00	6.18560
371415.91	3769045.00	6.99119	371440.91	3769045.00	7.96328

**MODELOPTs:

CONC URBAN ELEV HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 2 ***
INCLUDING SOURCE(S): SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371465.91	3769045.00	9.14771	371490.91	3769045.00	10.60489
371515.91	3769045.00	12.45872	371540.91	3769045.00	14.74974
371565.91	3769045.00	17.69332	371590.91	3769045.00	21.40575
371615.91	3769045.00	26.22295	371640.91	3769045.00	32.53181
371665.91	3769045.00	41.92538	371690.91	3769045.00	55.68357
371715.91	3769045.00	68.26203	371740.91	3769045.00	78.48009
371765.91	3769045.00	121.71404	371790.91	3769045.00	194.70157
371815.91	3769045.00	241.52571	371840.91	3769045.00	172.87454
371865.91	3769045.00	113.06364	371890.91	3769045.00	77.23707
371915.91	3769045.00	57.53004	371940.91	3769045.00	44.65668
371965.91	3769045.00	36.16019	371990.91	3769045.00	29.82330
372015.91	3769045.00	25.06313	372040.91	3769045.00	21.37939
372065.91	3769045.00	18.56065	372090.91	3769045.00	16.19383
372115.91	3769045.00	14.32279	372140.91	3769045.00	12.73746
372165.91	3769045.00	11.41779	372190.91	3769045.00	10.27953
372215.91	3769045.00	9.32826	372240.91	3769045.00	8.48945
372265.91	3769045.00	7.78241	372290.91	3769045.00	7.16310
372315.91	3769045.00	6.63446	372340.91	3769045.00	6.13922
372365.91	3769045.00	5.71301	371340.91	3769070.00	4.90113
371365.91	3769070.00	5.44006	371390.91	3769070.00	6.06280
371415.91	3769070.00	6.79502	371440.91	3769070.00	7.64900
371465.91	3769070.00	8.65998	371490.91	3769070.00	9.84222
371515.91	3769070.00	11.29044	371540.91	3769070.00	13.00205
371565.91	3769070.00	15.15048	371590.91	3769070.00	17.92010
371615.91	3769070.00	21.92071	371640.91	3769070.00	27.43663
371665.91	3769070.00	34.23801	371690.91	3769070.00	39.91734
371715.91	3769070.00	48.99755	371740.91	3769070.00	56.82749
371765.91	3769070.00	91.00117	371790.91	3769070.00	107.53591
371815.91	3769070.00	141.52367	371840.91	3769070.00	140.01094
371865.91	3769070.00	112.62685	371890.91	3769070.00	82.57263
371915.91	3769070.00	60.67435	371940.91	3769070.00	45.59084
371965.91	3769070.00	36.00220	371990.91	3769070.00	29.15335
372015.91	3769070.00	24.48962	372040.91	3769070.00	20.69722
372065.91	3769070.00	18.02744	372090.91	3769070.00	15.72765
372115.91	3769070.00	13.99354	372140.91	3769070.00	12.43589
372165.91	3769070.00	11.21931	372190.91	3769070.00	10.09670
372215.91	3769070.00	9.20835	372240.91	3769070.00	8.38141
372265.91	3769070.00	7.71209	372290.91	3769070.00	7.11605

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 2 ***
INCLUDING SOURCE(S): SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372315.91	3769070.00	6.58600	372340.91	3769070.00	6.09902
372365.91	3769070.00	5.68366	371340.91	3769095.00	4.70926
371365.91	3769095.00	5.17097	371390.91	3769095.00	5.69405
371415.91	3769095.00	6.29059	371440.91	3769095.00	6.96940
371465.91	3769095.00	7.76052	371490.91	3769095.00	8.69252
371515.91	3769095.00	9.85549	371540.91	3769095.00	11.33777
371565.91	3769095.00	13.34210	371590.91	3769095.00	15.97142
371615.91	3769095.00	19.18129	371640.91	3769095.00	22.38963
371665.91	3769095.00	25.65219	371690.91	3769095.00	30.44441
371715.91	3769095.00	35.14901	371740.91	3769095.00	44.11060
371765.91	3769095.00	65.37383	371790.91	3769095.00	72.46378
371815.91	3769095.00	81.08427	371840.91	3769095.00	95.68693
371865.91	3769095.00	90.07275	371890.91	3769095.00	75.98392
371915.91	3769095.00	60.91164	371940.91	3769095.00	47.46923
371965.91	3769095.00	37.40548	371990.91	3769095.00	29.85919
372015.91	3769095.00	24.60020	372040.91	3769095.00	20.63323
372065.91	3769095.00	17.69598	372090.91	3769095.00	15.39849
372115.91	3769095.00	13.59542	372140.91	3769095.00	12.11950
372165.91	3769095.00	10.91478	372190.91	3769095.00	9.86363
372215.91	3769095.00	8.99650	372240.91	3769095.00	8.22267
372265.91	3769095.00	7.56878	372290.91	3769095.00	6.98401
372315.91	3769095.00	6.47594	372340.91	3769095.00	6.01045
372365.91	3769095.00	5.60676	371340.91	3769120.00	4.37316
371365.91	3769120.00	4.75187	371390.91	3769120.00	5.17661
371415.91	3769120.00	5.67049	371440.91	3769120.00	6.24343

371465.91	3769120.00	6.95091	371490.91	3769120.00	7.82535
371515.91	3769120.00	8.96909	371540.91	3769120.00	10.39030
371565.91	3769120.00	12.11147	371590.91	3769120.00	13.90977
371615.91	3769120.00	15.69041	371640.91	3769120.00	17.54206
371665.91	3769120.00	20.48500	371690.91	3769120.00	23.57975
371715.91	3769120.00	26.51131	371740.91	3769120.00	34.79813
371765.91	3769120.00	47.96299	371790.91	3769120.00	51.82121
371815.91	3769120.00	52.96373	371840.91	3769120.00	61.41435
371865.91	3769120.00	66.80873	371890.91	3769120.00	61.65902
371915.91	3769120.00	54.28704	371940.91	3769120.00	45.70350
371965.91	3769120.00	37.76527	371990.91	3769120.00	30.64289
372015.91	3769120.00	25.25284	372040.91	3769120.00	20.97485
372065.91	3769120.00	17.84985	372090.91	3769120.00	15.37658
372115.91	3769120.00	13.47159	372140.91	3769120.00	11.90960
372165.91	3769120.00	10.69171	372190.91	3769120.00	9.62116
372215.91	3769120.00	8.77207	372240.91	3769120.00	8.01796
372265.91	3769120.00	7.38296	372290.91	3769120.00	6.81226

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 2 ***
INCLUDING SOURCE(S): SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372315.91	3769120.00	6.31634	372340.91	3769120.00	5.87161
372365.91	3769120.00	5.49086	371340.91	3769145.00	4.00179
371365.91	3769145.00	4.33275	371390.91	3769145.00	4.71888
371415.91	3769145.00	5.18635	371440.91	3769145.00	5.75241
371465.91	3769145.00	6.45834	371490.91	3769145.00	7.31195
371515.91	3769145.00	8.32614	371540.91	3769145.00	9.41760
371565.91	3769145.00	10.52585	371590.91	3769145.00	11.57014
371615.91	3769145.00	12.80253	371640.91	3769145.00	14.57122

371665.91	3769145.00	16.76536	371690.91	3769145.00	18.27245
371715.91	3769145.00	21.29815	371740.91	3769145.00	28.32558
371765.91	3769145.00	36.37270	371790.91	3769145.00	38.80211
371815.91	3769145.00	38.54718	371840.91	3769145.00	41.61359
371865.91	3769145.00	47.70818	371890.91	3769145.00	48.62000
371915.91	3769145.00	45.42662	371940.91	3769145.00	40.69844
371965.91	3769145.00	35.52858	371990.91	3769145.00	30.26202
372015.91	3769145.00	25.55861	372040.91	3769145.00	21.45179
372065.91	3769145.00	18.24402	372090.91	3769145.00	15.64095
372115.91	3769145.00	13.61367	372140.91	3769145.00	11.97724
372165.91	3769145.00	10.66484	372190.91	3769145.00	9.56012
372215.91	3769145.00	8.65857	372240.91	3769145.00	7.87565
372265.91	3769145.00	7.23463	372290.91	3769145.00	6.66167
372315.91	3769145.00	6.17626	372340.91	3769145.00	5.74128
372365.91	3769145.00	5.36146	371340.91	3769170.00	3.70182
371365.91	3769170.00	4.02795	371390.91	3769170.00	4.41696
371415.91	3769170.00	4.88833	371440.91	3769170.00	5.44022
371465.91	3769170.00	6.08278	371490.91	3769170.00	6.77444
371515.91	3769170.00	7.50393	371540.91	3769170.00	8.19261
371565.91	3769170.00	8.89426	371590.91	3769170.00	9.71314
371615.91	3769170.00	10.89121	371640.91	3769170.00	12.35346
371665.91	3769170.00	13.54940	371690.91	3769170.00	14.75741
371715.91	3769170.00	17.79031	371740.91	3769170.00	23.05279
371765.91	3769170.00	28.32677	371790.91	3769170.00	29.96847
371815.91	3769170.00	29.64110	371840.91	3769170.00	30.11361
371865.91	3769170.00	34.00115	371890.91	3769170.00	37.10239
371915.91	3769170.00	37.08385	371940.91	3769170.00	34.54152
371965.91	3769170.00	31.53070	371990.91	3769170.00	28.04959
372015.91	3769170.00	24.66876	372040.91	3769170.00	21.32257
372065.91	3769170.00	18.39443	372090.91	3769170.00	15.85649
372115.91	3769170.00	13.86409	372140.91	3769170.00	12.14741
372165.91	3769170.00	10.77536	372190.91	3769170.00	9.60730

**MODELOPTs:

CONC URBAN ELEV HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 2 ***
INCLUDING SOURCE(S): SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372215.91	3769170.00	8.65245	372240.91	3769170.00	7.83801
372265.91	3769170.00	7.16355	372290.91	3769170.00	6.56847
372315.91	3769170.00	6.07472	372340.91	3769170.00	5.63400
372365.91	3769170.00	5.25557	371340.91	3769195.00	3.50608
371365.91	3769195.00	3.83562	371390.91	3769195.00	4.21671
371415.91	3769195.00	4.65164	371440.91	3769195.00	5.12370
371465.91	3769195.00	5.61592	371490.91	3769195.00	6.09856
371515.91	3769195.00	6.56939	371540.91	3769195.00	7.04493
371565.91	3769195.00	7.63757	371590.91	3769195.00	8.44250
371615.91	3769195.00	9.47691	371640.91	3769195.00	10.39964
371665.91	3769195.00	11.09990	371690.91	3769195.00	12.41014
371715.91	3769195.00	15.08402	371740.91	3769195.00	19.11888
371765.91	3769195.00	22.66356	371790.91	3769195.00	23.87687
371815.91	3769195.00	23.69072	371840.91	3769195.00	23.39039
371865.91	3769195.00	25.10575	371890.91	3769195.00	28.05038
371915.91	3769195.00	29.60830	371940.91	3769195.00	28.93621
371965.91	3769195.00	27.22101	371990.91	3769195.00	25.02953
372015.91	3769195.00	22.82703	372040.91	3769195.00	20.38936
372065.91	3769195.00	18.08682	372090.91	3769195.00	15.92588
372115.91	3769195.00	14.02605	372140.91	3769195.00	12.34290
372165.91	3769195.00	10.94483	372190.91	3769195.00	9.74146
372215.91	3769195.00	8.75325	372240.91	3769195.00	7.89865
372265.91	3769195.00	7.18406	372290.91	3769195.00	6.56992
372315.91	3769195.00	6.04799	372340.91	3769195.00	5.59004
372365.91	3769195.00	5.19808	371340.91	3769220.00	3.36978
371365.91	3769220.00	3.67845	371390.91	3769220.00	4.01115
371415.91	3769220.00	4.36200	371440.91	3769220.00	4.70916
371465.91	3769220.00	5.05189	371490.91	3769220.00	5.37661
371515.91	3769220.00	5.73226	371540.91	3769220.00	6.15921
371565.91	3769220.00	6.74741	371590.91	3769220.00	7.48264
371615.91	3769220.00	8.21834	371640.91	3769220.00	8.71556
371665.91	3769220.00	9.35988	371690.91	3769220.00	10.67297
371715.91	3769220.00	12.97291	371740.91	3769220.00	16.02734
371765.91	3769220.00	18.56021	371790.91	3769220.00	19.38251
371815.91	3769220.00	19.36508	371840.91	3769220.00	18.88476
371865.91	3769220.00	19.44275	371890.91	3769220.00	21.31581
371915.91	3769220.00	23.35553	371940.91	3769220.00	23.90308

371965.91	3769220.00	23.28724	371990.91	3769220.00	21.93166
372015.91	3769220.00	20.45037	372040.91	3769220.00	18.79352
372065.91	3769220.00	17.17973	372090.91	3769220.00	15.46494

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 2 ***
INCLUDING SOURCE(S): SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372115.91	3769220.00	13.86978	372140.91	3769220.00	12.34005
372165.91	3769220.00	11.03224	372190.91	3769220.00	9.85656
372215.91	3769220.00	8.86014	372240.91	3769220.00	7.98695
372265.91	3769220.00	7.25400	372290.91	3769220.00	6.60478
372315.91	3769220.00	6.06935	372340.91	3769220.00	5.58942
372365.91	3769220.00	5.18436	371340.91	3769245.00	3.23108
371365.91	3769245.00	3.48935	371390.91	3769245.00	3.74937
371415.91	3769245.00	4.00443	371440.91	3769245.00	4.25018
371465.91	3769245.00	4.49425	371490.91	3769245.00	4.75673
371515.91	3769245.00	5.08321	371540.91	3769245.00	5.51450
371565.91	3769245.00	6.06492	371590.91	3769245.00	6.63048
371615.91	3769245.00	7.06830	371640.91	3769245.00	7.42818
371665.91	3769245.00	8.11876	371690.91	3769245.00	9.34896
371715.91	3769245.00	11.30541	371740.91	3769245.00	13.66424
371765.91	3769245.00	15.44109	371790.91	3769245.00	16.12508
371815.91	3769245.00	16.12325	371840.91	3769245.00	15.68230
371865.91	3769245.00	15.71321	371890.91	3769245.00	16.73686
371915.91	3769245.00	18.36963	371940.91	3769245.00	19.53501
371965.91	3769245.00	19.73806	371990.91	3769245.00	19.09212
372015.91	3769245.00	18.12208	372040.91	3769245.00	16.99197
372065.91	3769245.00	15.83650	372090.91	3769245.00	14.61339
372115.91	3769245.00	13.38359	372140.91	3769245.00	12.13525

372165.91	3769245.00	10.97572	372190.91	3769245.00	9.89177
372215.91	3769245.00	8.93484	372240.91	3769245.00	8.07156
372265.91	3769245.00	7.33542	372290.91	3769245.00	6.68473
372315.91	3769245.00	6.12823	372340.91	3769245.00	5.63586
372365.91	3769245.00	5.21128	371340.91	3769270.00	3.05476
371365.91	3769270.00	3.25181	371390.91	3769270.00	3.44107
371415.91	3769270.00	3.62626	371440.91	3769270.00	3.80979
371465.91	3769270.00	4.01648	371490.91	3769270.00	4.26698
371515.91	3769270.00	4.59965	371540.91	3769270.00	5.00911
371565.91	3769270.00	5.46280	371590.91	3769270.00	5.82450
371615.91	3769270.00	6.10264	371640.91	3769270.00	6.45161
371665.91	3769270.00	7.16683	371690.91	3769270.00	8.28540
371715.91	3769270.00	9.91963	371740.91	3769270.00	11.73359
371765.91	3769270.00	13.05708	371790.91	3769270.00	13.59401
371815.91	3769270.00	13.62770	371840.91	3769270.00	13.27822
371865.91	3769270.00	13.09727	371890.91	3769270.00	13.52817
371915.91	3769270.00	14.65029	371940.91	3769270.00	15.86963
371965.91	3769270.00	16.57846	371990.91	3769270.00	16.47724

1 *** ISCST3 - VERSION 02035 *** *** BreitBurn Drill Site *** 07/07/05 *** ***

12:40:24

**MODELOPTs:

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CONC URBAN ELEV HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 2 ***
INCLUDING SOURCE(S): SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372015.91	3769270.00	15.99174	372040.91	3769270.00	15.20290
372065.91	3769270.00	14.39612	372090.91	3769270.00	13.49383
372115.91	3769270.00	12.59804	372140.91	3769270.00	11.63721
372165.91	3769270.00	10.70649	372190.91	3769270.00	9.77282
372215.91	3769270.00	8.90803	372240.91	3769270.00	8.10318
372265.91	3769270.00	7.39119	372290.91	3769270.00	6.74179
372315.91	3769270.00	6.19049	372340.91	3769270.00	5.68562

372365.91	3769270.00	5.25749	371340.91	3769295.00	2.84405
371365.91	3769295.00	2.98889	371390.91	3769295.00	3.13018
371415.91	3769295.00	3.27605	371440.91	3769295.00	3.43821
371465.91	3769295.00	3.63927	371490.91	3769295.00	3.89480
371515.91	3769295.00	4.21794	371540.91	3769295.00	4.57141
371565.91	3769295.00	4.88732	371590.91	3769295.00	5.11193
371615.91	3769295.00	5.33656	371640.91	3769295.00	5.72751
371665.91	3769295.00	6.40577	371690.91	3769295.00	7.40268
371715.91	3769295.00	8.76954	371740.91	3769295.00	10.19646
371765.91	3769295.00	11.21141	371790.91	3769295.00	11.62737
371815.91	3769295.00	11.68982	371840.91	3769295.00	11.42132
371865.91	3769295.00	11.17119	371890.91	3769295.00	11.27410
371915.91	3769295.00	11.95094	371940.91	3769295.00	12.94267
371965.91	3769295.00	13.80482	371990.91	3769295.00	14.15664
372015.91	3769295.00	14.02859	372040.91	3769295.00	13.56150
372065.91	3769295.00	12.98632	372090.91	3769295.00	12.33290
372115.91	3769295.00	11.66951	372140.91	3769295.00	10.95266
372165.91	3769295.00	10.23953	372190.91	3769295.00	9.48844
372215.91	3769295.00	8.76201	372240.91	3769295.00	8.04813
372265.91	3769295.00	7.38909	372290.91	3769295.00	6.77785
372315.91	3769295.00	6.23452	372340.91	3769295.00	5.73961
372365.91	3769295.00	5.30385	371340.91	3769320.00	2.61982
371365.91	3769320.00	2.73191	371390.91	3769320.00	2.84750
371415.91	3769320.00	2.98004	371440.91	3769320.00	3.14091
371465.91	3769320.00	3.34605	371490.91	3769320.00	3.59902
371515.91	3769320.00	3.88483	371540.91	3769320.00	4.14864
371565.91	3769320.00	4.35276	371590.91	3769320.00	4.51018
371615.91	3769320.00	4.74160	371640.91	3769320.00	5.14739
371665.91	3769320.00	5.78385	371690.91	3769320.00	6.66131
371715.91	3769320.00	7.80857	371740.91	3769320.00	8.93600
371765.91	3769320.00	9.72602	371790.91	3769320.00	10.04876
371815.91	3769320.00	10.12491	371840.91	3769320.00	9.94176
371865.91	3769320.00	9.69098	371890.91	3769320.00	9.62076

**MODELOPTs:

CONC URBAN ELEV HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 2 ***
INCLUDING SOURCE(S): SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371915.91	3769320.00	9.97190	371940.91	3769320.00	10.67009
371965.91	3769320.00	11.48838	371990.91	3769320.00	12.04609
372015.91	3769320.00	12.23455	372040.91	3769320.00	12.04245
372065.91	3769320.00	11.69129	372090.91	3769320.00	11.20774
372115.91	3769320.00	10.70858	372140.91	3769320.00	10.17393
372165.91	3769320.00	9.63264	372190.91	3769320.00	9.04767
372215.91	3769320.00	8.47100	372240.91	3769320.00	7.87337
372265.91	3769320.00	7.30307	372290.91	3769320.00	6.74375
372315.91	3769320.00	6.23943	372340.91	3769320.00	5.76209
372365.91	3769320.00	5.33857	371340.91	3769345.00	2.40603
371365.91	3769345.00	2.50140	371390.91	3769345.00	2.60916
371415.91	3769345.00	2.74145	371440.91	3769345.00	2.90667
371465.91	3769345.00	3.11012	371490.91	3769345.00	3.34091
371515.91	3769345.00	3.56652	371540.91	3769345.00	3.74733
371565.91	3769345.00	3.88104	371590.91	3769345.00	4.02299
371615.91	3769345.00	4.27217	371640.91	3769345.00	4.67714
371665.91	3769345.00	5.25750	371690.91	3769345.00	6.03531
371715.91	3769345.00	6.99919	371740.91	3769345.00	7.89962
371765.91	3769345.00	8.52072	371790.91	3769345.00	8.80111
371815.91	3769345.00	8.85594	371840.91	3769345.00	8.72744
371865.91	3769345.00	8.50753	371890.91	3769345.00	8.36154
371915.91	3769345.00	8.50470	371940.91	3769345.00	8.95903
371965.91	3769345.00	9.61513	371990.91	3769345.00	10.22661
372015.91	3769345.00	10.60458	372040.91	3769345.00	10.66796
372065.91	3769345.00	10.49936	372090.91	3769345.00	10.17287
372115.91	3769345.00	9.80436	372140.91	3769345.00	9.38837
372165.91	3769345.00	8.97226	372190.91	3769345.00	8.52738
372215.91	3769345.00	8.07476	372240.91	3769345.00	7.59619
372265.91	3769345.00	7.12296	372290.91	3769345.00	6.64668
372315.91	3769345.00	6.18997	372340.91	3769345.00	5.75255
372365.91	3769345.00	5.34532	371340.91	3769370.00	2.21541
371365.91	3769370.00	2.30614	371390.91	3769370.00	2.41455
371415.91	3769370.00	2.55107	371440.91	3769370.00	2.71615
371465.91	3769370.00	2.90503	371490.91	3769370.00	3.09513
371515.91	3769370.00	3.25859	371540.91	3769370.00	3.37654
371565.91	3769370.00	3.47949	371590.91	3769370.00	3.62950

371615.91	3769370.00	3.89364	371640.91	3769370.00	4.27975
371665.91	3769370.00	4.80822	371690.91	3769370.00	5.49130
371715.91	3769370.00	6.30673	371740.91	3769370.00	7.02659
371765.91	3769370.00	7.53594	371790.91	3769370.00	7.75818

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 2 ***
INCLUDING SOURCE(S): SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371815.91	3769370.00	7.81876	371840.91	3769370.00	7.72810
371865.91	3769370.00	7.54449	371890.91	3769370.00	7.37345
371915.91	3769370.00	7.39630	371940.91	3769370.00	7.64890
371965.91	3769370.00	8.13945	371990.91	3769370.00	8.68893
372015.91	3769370.00	9.15158	372040.91	3769370.00	9.38043
372065.91	3769370.00	9.39044	372090.91	3769370.00	9.21400
372115.91	3769370.00	8.95446	372140.91	3769370.00	8.63760
372165.91	3769370.00	8.30750	372190.91	3769370.00	7.96038
372215.91	3769370.00	7.61072	372240.91	3769370.00	7.23174
372265.91	3769370.00	6.85738	372290.91	3769370.00	6.45853
372315.91	3769370.00	6.07415	372340.91	3769370.00	5.68637
372365.91	3769370.00	5.31827	371340.91	3769395.00	2.05414
371365.91	3769395.00	2.14574	371390.91	3769395.00	2.25836
371415.91	3769395.00	2.39543	371440.91	3769395.00	2.55097
371465.91	3769395.00	2.71221	371490.91	3769395.00	2.85592
371515.91	3769395.00	2.96623	371540.91	3769395.00	3.04897
371565.91	3769395.00	3.14801	371590.91	3769395.00	3.31403
371615.91	3769395.00	3.57859	371640.91	3769395.00	3.93989
371665.91	3769395.00	4.41889	371690.91	3769395.00	5.02843
371715.91	3769395.00	5.71050	371740.91	3769395.00	6.30590
371765.91	3769395.00	6.70952	371790.91	3769395.00	6.90135

371815.91	3769395.00	6.96098	371840.91	3769395.00	6.89565
371865.91	3769395.00	6.74604	371890.91	3769395.00	6.57786
371915.91	3769395.00	6.52365	371940.91	3769395.00	6.64903
371965.91	3769395.00	6.98083	371990.91	3769395.00	7.43374
372015.91	3769395.00	7.89255	372040.91	3769395.00	8.21441
372065.91	3769395.00	8.36091	372090.91	3769395.00	8.32365
372115.91	3769395.00	8.16742	372140.91	3769395.00	7.93808
372165.91	3769395.00	7.67672	372190.91	3769395.00	7.40443
372215.91	3769395.00	7.12582	372240.91	3769395.00	6.83206
372265.91	3769395.00	6.53153	372290.91	3769395.00	6.21483
372315.91	3769395.00	5.89519	372340.91	3769395.00	5.56520
372365.91	3769395.00	5.24427	371340.91	3769420.00	1.92022
371365.91	3769420.00	2.01501	371390.91	3769420.00	2.12891
371415.91	3769420.00	2.26000	371440.91	3769420.00	2.39641
371465.91	3769420.00	2.52388	371490.91	3769420.00	2.62516
371515.91	3769420.00	2.69975	371540.91	3769420.00	2.76866
371565.91	3769420.00	2.87639	371590.91	3769420.00	3.05169
371615.91	3769420.00	3.31025	371640.91	3769420.00	3.64189
371665.91	3769420.00	4.08038	371690.91	3769420.00	4.61760

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 2 ***
INCLUDING SOURCE(S): SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371715.91	3769420.00	5.19514	371740.91	3769420.00	5.68400
371765.91	3769420.00	6.01710	371790.91	3769420.00	6.17990
371815.91	3769420.00	6.23704	371840.91	3769420.00	6.18651
371865.91	3769420.00	6.07579	371890.91	3769420.00	5.91241
371915.91	3769420.00	5.82533	371940.91	3769420.00	5.85946
371965.91	3769420.00	6.07231	371990.91	3769420.00	6.41127

372015.91	3769420.00	6.82058	372040.91	3769420.00	7.16934
372065.91	3769420.00	7.41425	372090.91	3769420.00	7.48151
372115.91	3769420.00	7.43712	372140.91	3769420.00	7.28589
372165.91	3769420.00	7.09295	372190.91	3769420.00	6.87024
372215.91	3769420.00	6.65102	372240.91	3769420.00	6.41169
372265.91	3769420.00	6.17404	372290.91	3769420.00	5.91594
372315.91	3769420.00	5.66405	372340.91	3769420.00	5.39009
372365.91	3769420.00	5.11882	371340.91	3769445.00	1.81015
371365.91	3769445.00	1.90641	371390.91	3769445.00	2.01676
371415.91	3769445.00	2.13419	371440.91	3769445.00	2.24601
371465.91	3769445.00	2.33996	371490.91	3769445.00	2.40871
371515.91	3769445.00	2.46508	371540.91	3769445.00	2.53477
371565.91	3769445.00	2.65265	371590.91	3769445.00	2.83216
371615.91	3769445.00	3.07596	371640.91	3769445.00	3.38496
371665.91	3769445.00	3.78245	371690.91	3769445.00	4.25674
371715.91	3769445.00	4.74809	371740.91	3769445.00	5.15695
371765.91	3769445.00	5.43388	371790.91	3769445.00	5.57072
371815.91	3769445.00	5.62420	371840.91	3769445.00	5.59370
371865.91	3769445.00	5.49850	371890.91	3769445.00	5.35780
371915.91	3769445.00	5.25379	371940.91	3769445.00	5.23660
371965.91	3769445.00	5.35680	371990.91	3769445.00	5.59641
372015.91	3769445.00	5.93049	372040.91	3769445.00	6.27117
372065.91	3769445.00	6.54853	372090.91	3769445.00	6.70810
372115.91	3769445.00	6.74986	372140.91	3769445.00	6.68063
372165.91	3769445.00	6.55051	372190.91	3769445.00	6.38233
372215.91	3769445.00	6.19851	372240.91	3769445.00	6.00618
372265.91	3769445.00	5.81255	372290.91	3769445.00	5.60678
372315.91	3769445.00	5.39869	372340.91	3769445.00	5.17771
372365.91	3769445.00	4.95542	371340.91	3769470.00	1.71807
371365.91	3769470.00	1.81225	371390.91	3769470.00	1.91277
371415.91	3769470.00	2.01190	371440.91	3769470.00	2.09732
371465.91	3769470.00	2.16359	371490.91	3769470.00	2.21160
371515.91	3769470.00	2.26232	371540.91	3769470.00	2.33906
371565.91	3769470.00	2.46488	371590.91	3769470.00	2.64174

**MODELOPTs:

CONC URBAN ELEV HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 2 ***
INCLUDING SOURCE(S): SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371615.91	3769470.00	2.87000	371640.91	3769470.00	3.15562
371665.91	3769470.00	3.51700	371690.91	3769470.00	3.93316
371715.91	3769470.00	4.35660	371740.91	3769470.00	4.69832
371765.91	3769470.00	4.93119	371790.91	3769470.00	5.05166
371815.91	3769470.00	5.09859	371840.91	3769470.00	5.07539
371865.91	3769470.00	5.00331	371890.91	3769470.00	4.88437
371915.91	3769470.00	4.77772	371940.91	3769470.00	4.72479
371965.91	3769470.00	4.77968	371990.91	3769470.00	4.94184
372015.91	3769470.00	5.20059	372040.91	3769470.00	5.49468
372065.91	3769470.00	5.78013	372090.91	3769470.00	5.98790
372115.91	3769470.00	6.10075	372140.91	3769470.00	6.10625
372165.91	3769470.00	6.04296	372190.91	3769470.00	5.92219
372215.91	3769470.00	5.77995	372240.91	3769470.00	5.61697
372265.91	3769470.00	5.45820	372290.91	3769470.00	5.28787
372315.91	3769470.00	5.12134	372340.91	3769470.00	4.93996
372365.91	3769470.00	4.75812	371340.91	3769495.00	1.63799
371365.91	3769495.00	1.72539	371390.91	3769495.00	1.81256
371415.91	3769495.00	1.89083	371440.91	3769495.00	1.95270
371465.91	3769495.00	1.99867	371490.91	3769495.00	2.03770
371515.91	3769495.00	2.09046	371540.91	3769495.00	2.17491
371565.91	3769495.00	2.30424	371590.91	3769495.00	2.47462
371615.91	3769495.00	2.68835	371640.91	3769495.00	2.95308
371665.91	3769495.00	3.28188	371690.91	3769495.00	3.65152
371715.91	3769495.00	4.01162	371740.91	3769495.00	4.30327
371765.91	3769495.00	4.50062	371790.91	3769495.00	4.60353
371815.91	3769495.00	4.64628	371840.91	3769495.00	4.63366
371865.91	3769495.00	4.57690	371890.91	3769495.00	4.47453
371915.91	3769495.00	4.37057	371940.91	3769495.00	4.30307
371965.91	3769495.00	4.31267	371990.91	3769495.00	4.41145
372015.91	3769495.00	4.60055	372040.91	3769495.00	4.84719
372065.91	3769495.00	5.11227	372090.91	3769495.00	5.33757
372115.91	3769495.00	5.49748	372140.91	3769495.00	5.56495
372165.91	3769495.00	5.56116	372190.91	3769495.00	5.49068
372215.91	3769495.00	5.38823	372240.91	3769495.00	5.26008

372265.91	3769495.00	5.12517	372290.91	3769495.00	4.98576
372315.91	3769495.00	4.84337	372340.91	3769495.00	4.69480
372365.91	3769495.00	4.54556	371340.91	3769520.00	1.56451
371365.91	3769520.00	1.64175	371390.91	3769520.00	1.71258
371415.91	3769520.00	1.77128	371440.91	3769520.00	1.81495
371465.91	3769520.00	1.84923	371490.91	3769520.00	1.88601

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 2 ***
INCLUDING SOURCE(S): SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371515.91	3769520.00	1.94420	371540.91	3769520.00	2.03532
371565.91	3769520.00	2.16387	371590.91	3769520.00	2.32510
371615.91	3769520.00	2.52587	371640.91	3769520.00	2.77119
371665.91	3769520.00	3.07017	371690.91	3769520.00	3.39391
371715.91	3769520.00	3.70694	371740.91	3769520.00	3.95230
371765.91	3769520.00	4.12353	371790.91	3769520.00	4.21068
371815.91	3769520.00	4.25265	371840.91	3769520.00	4.24216
371865.91	3769520.00	4.20099	371890.91	3769520.00	4.11306
371915.91	3769520.00	4.02094	371940.91	3769520.00	3.94074
371965.91	3769520.00	3.92398	371990.91	3769520.00	3.97417
372015.91	3769520.00	4.10993	372040.91	3769520.00	4.29987
372065.91	3769520.00	4.53402	372090.91	3769520.00	4.75746
372115.91	3769520.00	4.94145	372140.91	3769520.00	5.05573
372165.91	3769520.00	5.10208	372190.91	3769520.00	5.07953
372215.91	3769520.00	5.01633	372240.91	3769520.00	4.92112
372265.91	3769520.00	4.81313	372290.91	3769520.00	4.69232
372315.91	3769520.00	4.57452	372340.91	3769520.00	4.44897
372365.91	3769520.00	4.32600	371340.91	3769545.00	1.49434
371365.91	3769545.00	1.55879	371390.91	3769545.00	1.61364

371415.91	3769545.00	1.65600	371440.91	3769545.00	1.68708
371465.91	3769545.00	1.71621	371490.91	3769545.00	1.75610
371515.91	3769545.00	1.82045	371540.91	3769545.00	1.91477
371565.91	3769545.00	2.04048	371590.91	3769545.00	2.19292
371615.91	3769545.00	2.37924	371640.91	3769545.00	2.60734
371665.91	3769545.00	2.87880	371690.91	3769545.00	3.16673
371715.91	3769545.00	3.43585	371740.91	3769545.00	3.64878
371765.91	3769545.00	3.79519	371790.91	3769545.00	3.87405
371815.91	3769545.00	3.90823	371840.91	3769545.00	3.90544
371865.91	3769545.00	3.87156	371890.91	3769545.00	3.80056
371915.91	3769545.00	3.71427	371940.91	3769545.00	3.63554
371965.91	3769545.00	3.59863	371990.91	3769545.00	3.61676
372015.91	3769545.00	3.70373	372040.91	3769545.00	3.84986
372065.91	3769545.00	4.04272	372090.91	3769545.00	4.24687
372115.91	3769545.00	4.43808	372140.91	3769545.00	4.58104
372165.91	3769545.00	4.66634	372190.91	3769545.00	4.68856
372215.91	3769545.00	4.66625	372240.91	3769545.00	4.60247
372265.91	3769545.00	4.52067	372290.91	3769545.00	4.42177
372315.91	3769545.00	4.32004	372340.91	3769545.00	4.21282
372365.91	3769545.00	4.10820	371340.91	3769570.00	1.42466
371365.91	3769570.00	1.47591	371390.91	3769570.00	1.51650

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 2 ***
INCLUDING SOURCE(S): SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371415.91	3769570.00	1.54667	371440.91	3769570.00	1.57095
371465.91	3769570.00	1.60002	371490.91	3769570.00	1.64422
371515.91	3769570.00	1.71354	371540.91	3769570.00	1.80863
371565.91	3769570.00	1.92901	371590.91	3769570.00	2.07207

371615.91	3769570.00	2.24685	371640.91	3769570.00	2.45862
371665.91	3769570.00	2.70476	371690.91	3769570.00	2.95975
371715.91	3769570.00	3.19526	371740.91	3769570.00	3.37736
371765.91	3769570.00	3.50606	371790.91	3769570.00	3.57401
371815.91	3769570.00	3.60764	371840.91	3769570.00	3.60482
371865.91	3769570.00	3.58076	371890.91	3769570.00	3.52061
371915.91	3769570.00	3.44623	371940.91	3769570.00	3.36671
371965.91	3769570.00	3.31906	371990.91	3769570.00	3.31394
372015.91	3769570.00	3.36779	372040.91	3769570.00	3.47088
372065.91	3769570.00	3.62547	372090.91	3769570.00	3.80428
372115.91	3769570.00	3.98870	372140.91	3769570.00	4.14104
372165.91	3769570.00	4.25810	372190.91	3769570.00	4.31293
372215.91	3769570.00	4.32854	372240.91	3769570.00	4.29549
372265.91	3769570.00	4.24146	372290.91	3769570.00	4.16194
372315.91	3769570.00	4.08024	372340.91	3769570.00	3.98671
372365.91	3769570.00	3.89823	371340.91	3769595.00	1.35494
371365.91	3769595.00	1.39393	371390.91	3769595.00	1.42311
371415.91	3769595.00	1.44539	371440.91	3769595.00	1.46722
371465.91	3769595.00	1.49891	371490.91	3769595.00	1.54815
371515.91	3769595.00	1.62052	371540.91	3769595.00	1.71427
371565.91	3769595.00	1.82830	371590.91	3769595.00	1.96303
371615.91	3769595.00	2.12758	371640.91	3769595.00	2.32407
371665.91	3769595.00	2.54687	371690.91	3769595.00	2.77306
371715.91	3769595.00	2.97943	371740.91	3769595.00	3.13886
371765.91	3769595.00	3.24886	371790.91	3769595.00	3.31145
371815.91	3769595.00	3.34135	371840.91	3769595.00	3.34193
371865.91	3769595.00	3.32055	371890.91	3769595.00	3.27196
371915.91	3769595.00	3.20695	371940.91	3769595.00	3.13403
371965.91	3769595.00	3.07923	371990.91	3769595.00	3.05704
372015.91	3769595.00	3.08374	372040.91	3769595.00	3.15672
372065.91	3769595.00	3.27497	372090.91	3769595.00	3.42436
372115.91	3769595.00	3.59184	372140.91	3769595.00	3.74771
372165.91	3769595.00	3.87682	372190.91	3769595.00	3.96222
372215.91	3769595.00	4.00564	372240.91	3769595.00	4.00808
372265.91	3769595.00	3.97764	372290.91	3769595.00	3.92242
372315.91	3769595.00	3.85501	372340.91	3769595.00	3.77820

**MODELOPTs:

CONC URBAN ELEV HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 2 ***
INCLUDING SOURCE(S): SRC2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372365.91	3769595.00	3.69961	372390.91	3769170.00	4.91433
372415.91	3769170.00	4.61404	372390.91	3769195.00	4.84881
372415.91	3769195.00	4.54305	372324.62	3768512.50	2.29549
372240.62	3768308.50	1.29568	373073.12	3769250.00	1.48150
370888.16	3768917.00	1.30769	373073.78	3769299.75	1.43591
373076.31	3768939.25	1.50081	372601.41	3768361.25	1.17682
372301.84	3768327.50	1.50397	371747.22	3768345.00	0.92278
372389.25	3769329.00	4.98818	371296.72	3768889.25	3.04962
372959.97	3768868.75	1.59341	371735.91	3768977.75	50.44150
371738.66	3768975.00	40.06678	371763.66	3768974.50	11.07231
371788.62	3768974.25	43.54319	371791.47	3768974.00	48.49544
371794.09	3768976.75	51.60088	371794.53	3769001.75	143.10327
371794.62	3769008.00	264.18533	371769.62	3769008.50	44.05423
371744.62	3769009.00	121.26742	371736.47	3769009.00	125.85217
371736.03	3768984.00	69.68575	371735.91	3768977.75	50.44150

1 *** ISCST3 - VERSION 02035 *** *** BreitBurn Drill Site ***
07/07/05
*** ***
12:40:24
**MODELOPTs:
PAGE 98
CONC URBAN ELEV
HE>ZI

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID

```
 ALL      1ST HIGHEST VALUE IS     405.03275 AT (  371790.91,  3769020.00,     50.20,      0.00)  DC      NA
          2ND HIGHEST VALUE IS     264.18539 AT (  371794.62,  3769008.00,     50.20,      0.00)  DC      NA
          3RD HIGHEST VALUE IS     248.54416 AT (  371815.91,  3769045.00,     49.95,      0.00)  DC      NA
          4TH HIGHEST VALUE IS     246.09529 AT (  371815.91,  3769020.00,     49.96,      0.00)  DC      NA
          5TH HIGHEST VALUE IS     196.97701 AT (  371790.91,  3769045.00,     50.30,      0.00)  DC      NA
          6TH HIGHEST VALUE IS     182.40901 AT (  371840.91,  3769045.00,     49.50,      0.00)  DC      NA
          7TH HIGHEST VALUE IS     152.16821 AT (  371840.91,  3769070.00,     49.50,      0.00)  DC      NA
          8TH HIGHEST VALUE IS     150.63556 AT (  371815.91,  3769070.00,     49.96,      0.00)  DC      NA
          9TH HIGHEST VALUE IS     146.16705 AT (  371840.91,  3769020.00,     49.42,      0.00)  DC      NA
         10TH HIGHEST VALUE IS     143.10329 AT (  371794.53,  3769001.75,     50.20,      0.00)  DC      NA

 1        1ST HIGHEST VALUE IS      12.89437 AT (  371865.91,  3769095.00,     49.25,      0.00)  DC      NA
          2ND HIGHEST VALUE IS      12.26462 AT (  371865.91,  3769070.00,     49.20,      0.00)  DC      NA
          3RD HIGHEST VALUE IS      12.15707 AT (  371840.91,  3769070.00,     49.50,      0.00)  DC      NA
          4TH HIGHEST VALUE IS      12.06697 AT (  371890.91,  3769095.00,     48.80,      0.00)  DC      NA
          5TH HIGHEST VALUE IS      11.79869 AT (  371840.91,  3769095.00,     49.60,      0.00)  DC      NA
          6TH HIGHEST VALUE IS      11.76172 AT (  371890.91,  3769120.00,     48.73,      0.00)  DC      NA
          7TH HIGHEST VALUE IS      11.74990 AT (  371865.91,  3769120.00,     49.31,      0.00)  DC      NA
          8TH HIGHEST VALUE IS      10.93170 AT (  371915.91,  3769120.00,     48.50,      0.00)  DC      NA
          9TH HIGHEST VALUE IS      10.79270 AT (  371890.91,  3769070.00,     48.73,      0.00)  DC      NA
         10TH HIGHEST VALUE IS      10.66608 AT (  371890.91,  3769145.00,     48.97,      0.00)  DC      NA

 2        1ST HIGHEST VALUE IS     404.87219 AT (  371790.91,  3769020.00,     50.20,      0.00)  DC      NA
          2ND HIGHEST VALUE IS     264.18533 AT (  371794.62,  3769008.00,     50.20,      0.00)  DC      NA
          3RD HIGHEST VALUE IS     243.81671 AT (  371815.91,  3769020.00,     49.96,      0.00)  DC      NA
          4TH HIGHEST VALUE IS     241.52571 AT (  371815.91,  3769045.00,     49.95,      0.00)  DC      NA
          5TH HIGHEST VALUE IS     194.70157 AT (  371790.91,  3769045.00,     50.30,      0.00)  DC      NA
          6TH HIGHEST VALUE IS     172.87454 AT (  371840.91,  3769045.00,     49.50,      0.00)  DC      NA
          7TH HIGHEST VALUE IS     143.10327 AT (  371794.53,  3769001.75,     50.20,      0.00)  DC      NA
          8TH HIGHEST VALUE IS     141.75706 AT (  371840.91,  3769020.00,     49.42,      0.00)  DC      NA
          9TH HIGHEST VALUE IS     141.52367 AT (  371815.91,  3769070.00,     49.96,      0.00)  DC      NA
         10TH HIGHEST VALUE IS     140.01094 AT (  371840.91,  3769070.00,     49.50,      0.00)  DC      NA


  *** RECEPTOR TYPES:  GC = GRIDCART
                       GP = GRIDPOLR
                       DC = DISCCART
                       DP = DISCPOLR
                       BD = BOUNDARY
```

 **MODELOPTs:
PAGE 99
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HE>ZI

 *** Message Summary : ISCST3 Model Execution ***

  --------- Summary of Total Messages --------

 A Total of   0 Fatal Error Message(s)
 A Total of   0 Warning Message(s)
 A Total of   1673 Informational Message(s)

 A Total of   1673 Calm Hours Identified

    ******** FATAL ERROR MESSAGES ********
               *** NONE ***

    ********   WARNING MESSAGES   ********
               *** NONE ***

    ****
    *** ISCST3 Finishes Successfully ***
    ****

Appendix B-2
Well Cellar Air Dispersion Modeling

```
             ISCST3X  PC (32 BIT) VERSION  4.0.1
            (C) COPYRIGHT 1991-2002, Trinity Consultants

Run Began on  7/07/2005 at 13:26:32

** BREEZE ISC GIS Pro v4.0.9 - B:\Air Modeling\HHRA\9195_cellars.dat
** Trinity Consultants


CO STARTING
CO TITLEONE  BreitBurn Drill Site
CO MODELOPT  CONC  URBAN  NOSTD  HE>ZI
CO AVERTIME  ANNUAL
CO POLLUTID  OTHER
CO TERRHGTS  ELEV
CO RUNORNOT  RUN
CO ERRORFIL  "C:\DOCUMENTS AND SETTINGS\CKELLY\MY DOCUMENTS\BREIT BURN\MODELING\9195_ISC_POINT.ERR"
CO FINISHED

SO STARTING
SO ELEVUNIT  METERS
SO LOCATION  SRC4  POINT  371756.6  3768989.7  50
** SRCDESCR  NC2
SO LOCATION  SRC3  POINT  371747.8  3768990.0  50
** SRCDESCR  NC1
SO LOCATION  SRC5  POINT  371770.5  3768989.6  50
** SRCDESCR  NC3
SO LOCATION  SRC6  POINT  371779.1  3768989.5  50
** SRCDESCR  NC4
SO LOCATION  SRC7  POINT  371755.4  3768981.6  50
** SRCDESCR  SC1
SO LOCATION  SRC8  POINT  371777.8  3768981.3  50
** SRCDESCR  SC2
SO SRCPARAM  SRC4  1.000000E+00  7.62  293  0.1  8.3
SO SRCPARAM  SRC3  1.000000E+00  7.62  293  0.1  8.3
SO SRCPARAM  SRC5  1.000000E+00  7.62  293  0.1  8.3
SO SRCPARAM  SRC6  1.000000E+00  7.62  293  0.1  8.3
SO SRCPARAM  SRC7  1.000000E+00  7.62  293  0.1  8.2
SO SRCPARAM  SRC8  1.000000E+00  7.62  293  0.1  8.2
SO BUILDHGT  SRC4  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC4  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC4  39.0  39.0  39.0  39.0  39.0  39.0
```

```
SO BUILDHGT  SRC4  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC4  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC4  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDWID  SRC4  11.53  12.8  13.67  14.13  14.16  13.76
SO BUILDWID  SRC4  12.94  11.73  10.16  11.45  12.73  13.64
SO BUILDWID  SRC4  14.12  14.18  13.81  13.02  11.83  10.28
SO BUILDWID  SRC4  11.53  12.8  13.67  14.13  14.16  13.76
SO BUILDWID  SRC4  12.94  11.73  10.16  11.45  12.73  13.64
SO BUILDWID  SRC4  14.12  14.18  13.81  13.02  11.83  10.28
SO BUILDHGT  SRC3  13.7  13.7  13.7  39.0  39.0  39.0
SO BUILDHGT  SRC3  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC3  39.0  39.0  39.0  13.7  13.7  13.7
SO BUILDHGT  SRC3  13.7  13.7  13.7  39.0  39.0  39.0
SO BUILDHGT  SRC3  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC3  39.0  39.0  39.0  13.7  13.7  13.7
SO BUILDWID  SRC3  59.57  59.41  57.45  14.06  14.06  13.76
SO BUILDWID  SRC3  12.94  11.73  10.16  11.45  12.73  13.64
SO BUILDWID  SRC3  14.06  14.06  13.81  59.07  59.64  58.39
SO BUILDWID  SRC3  59.57  59.41  57.45  14.06  14.06  13.76
SO BUILDWID  SRC3  12.94  11.73  10.16  11.45  12.73  13.64
SO BUILDWID  SRC3  14.06  14.06  13.81  59.07  59.64  58.39
SO BUILDHGT  SRC5  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC5  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC5  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC5  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC5  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC5  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDWID  SRC5  11.53  12.8  13.67  14.13  14.16  13.76
SO BUILDWID  SRC5  12.94  11.73  10.16  11.45  12.73  13.64
SO BUILDWID  SRC5  14.12  14.18  13.81  13.02  11.83  10.28
SO BUILDWID  SRC5  11.53  12.8  13.67  14.13  14.16  13.76
SO BUILDWID  SRC5  12.94  11.73  10.16  11.45  12.73  13.64
SO BUILDWID  SRC5  14.12  14.18  13.81  13.02  11.83  10.28
SO BUILDHGT  SRC6  13.7  13.7  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC6  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC6  39.0  39.0  13.7  13.7  13.7  13.7
SO BUILDHGT  SRC6  13.7  13.7  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC6  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC6  39.0  39.0  13.7  13.7  13.7  13.7
SO BUILDWID  SRC6  59.57  59.41  13.67  14.06  14.06  13.76
SO BUILDWID  SRC6  12.94  11.73  10.16  11.45  12.73  13.64
SO BUILDWID  SRC6  14.06  14.06  56.71  59.07  59.64  58.39
SO BUILDWID  SRC6  59.57  59.41  13.67  14.06  14.06  13.76
SO BUILDWID  SRC6  12.94  11.73  10.16  11.45  12.73  13.64
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SO BUILDWID  SRC6  14.06  14.06  56.71  59.07  59.64  58.39
SO BUILDHGT  SRC7  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC7  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC7  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC7  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC7  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC7  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDWID  SRC7  11.53  12.8  13.67  14.13  14.16  13.76
SO BUILDWID  SRC7  12.94  11.73  10.16  11.45  12.73  13.64
SO BUILDWID  SRC7  14.12  14.18  13.81  13.02  11.83  10.28
SO BUILDWID  SRC7  11.53  12.8  13.67  14.13  14.16  13.76
SO BUILDWID  SRC7  12.94  11.73  10.16  11.45  12.73  13.64
SO BUILDWID  SRC7  14.12  14.18  13.81  13.02  11.83  10.28
SO BUILDHGT  SRC8  13.7  13.7  13.7  13.7  39.0  39.0
SO BUILDHGT  SRC8  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC8  39.0  39.0  39.0  39.0  13.7  13.7
SO BUILDHGT  SRC8  13.7  13.7  13.7  13.7  39.0  39.0
SO BUILDHGT  SRC8  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC8  39.0  39.0  39.0  39.0  13.7  13.7
SO BUILDWID  SRC8  59.57  59.41  57.45  53.73  14.16  13.76
SO BUILDWID  SRC8  12.94  11.73  10.16  11.45  12.73  13.64
SO BUILDWID  SRC8  14.12  14.18  13.81  13.02  59.64  58.39
SO BUILDWID  SRC8  59.57  59.41  57.45  53.73  14.16  13.76
SO BUILDWID  SRC8  12.94  11.73  10.16  11.45  12.73  13.64
SO BUILDWID  SRC8  14.12  14.18  13.81  13.02  59.64  58.39
SO SRCGROUP  ALL
SO FINISHED

RE STARTING
RE ELEVUNIT  METERS
RE DISCCART  371340.9  3768569.9  60.45
RE DISCCART  371365.9  3768569.9  59.45
RE DISCCART  371390.9  3768569.9  57.31
RE DISCCART  371415.9  3768569.9  56.48
RE DISCCART  371440.9  3768569.9  55.07
RE DISCCART  371465.9  3768569.9  54.61
RE DISCCART  371490.9  3768569.9  54.2
RE DISCCART  371515.9  3768569.9  53.96
RE DISCCART  371540.9  3768569.9  53.42
RE DISCCART  371565.9  3768569.9  53.2
RE DISCCART  371590.9  3768569.9  52.54
RE DISCCART  371615.9  3768569.9  52.35
RE DISCCART  371640.9  3768569.9  51.74
RE DISCCART  371665.9  3768569.9  51.58
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RE DISCCART  371740.9  3768569.9  50.42
RE DISCCART  371765.9  3768569.9  50.11
RE DISCCART  371790.9  3768569.9  49.72
RE DISCCART  371815.9  3768569.9  49.58
RE DISCCART  371840.9  3768569.9  49.2
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RE DISCCART  371990.9  3768569.9  46.03
RE DISCCART  372015.9  3768569.9  45.69
RE DISCCART  372040.9  3768569.9  45.03
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RE DISCCART  372090.9  3768569.9  44.22
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RE DISCCART  372215.9  3768569.9  41.97
RE DISCCART  372240.9  3768569.9  41.42
RE DISCCART  372265.9  3768569.9  41.11
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RE DISCCART  372340.9  3768569.9  39.72
RE DISCCART  372365.9  3768569.9  39.46
RE DISCCART  371340.9  3768594.9  60.09
RE DISCCART  371365.9  3768594.9  58.94
RE DISCCART  371390.9  3768594.9  57.22
RE DISCCART  371415.9  3768594.9  56.25
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RE DISCCART  371490.9  3768594.9  54.17
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RE DISCCART  371615.9  3768594.9  52.4
RE DISCCART  371640.9  3768594.9  52
RE DISCCART  371665.9  3768594.9  51.75
RE DISCCART  371690.9  3768594.9  51.1
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RE DISCCART  372015.9  3768594.9  45.8
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RE DISCCART  372215.9  3768594.9  42.15
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RE DISCCART  371540.9  3768619.9  53.42
RE DISCCART  371565.9  3768619.9  53.11
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RE DISCCART  371615.9  3768619.9  52.5
RE DISCCART  371640.9  3768619.9  51.95
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RE DISCCART  371740.9  3768619.9  50.53
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RE DISCCART  371965.9  3768619.9  47.11
RE DISCCART  371990.9  3768619.9  46.25
RE DISCCART  372015.9  3768619.9  45.85
RE DISCCART  372040.9  3768619.9  45.25
RE DISCCART  372065.9  3768619.9  45.11
RE DISCCART  372090.9  3768619.9  44.53
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RE DISCCART  371765.9  3768644.9  50.48
RE DISCCART  371790.9  3768644.9  50.1
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RE DISCCART  372190.9  3768644.9  42.8
RE DISCCART  372215.9  3768644.9  42.45
RE DISCCART  372240.9  3768644.9  41.88
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RE DISCCART  372315.9  3768644.9  40.6
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RE DISCCART  371840.9  3768669.9  49.5
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RE DISCCART  372140.9  3768669.9  43.75
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RE DISCCART  371890.9  3768694.9  49.03
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RE DISCCART  372240.9  3768694.9  42.3
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RE DISCCART  371415.9  3768719.9  56.11
** RCPDESCR  Elev 40ft
RE DISCCART  371440.9  3768719.9  55.25
** RCPDESCR  Elev 40ft
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RE DISCCART  371490.9  3768719.9  54.26
RE DISCCART  371515.9  3768719.9  54.11
RE DISCCART  371540.9  3768719.9  53.53
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RE DISCCART  371590.9  3768719.9  52.75
RE DISCCART  371615.9  3768719.9  52.61
RE DISCCART  371640.9  3768719.9  52.19
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RE DISCCART  371715.9  3768719.9  51.2
RE DISCCART  371740.9  3768719.9  50.74
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RE DISCCART  371790.9  3768719.9  50.23
RE DISCCART  371815.9  3768719.9  50.11
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RE DISCCART  371865.9  3768719.9  49.46
RE DISCCART  371890.9  3768719.9  49.03
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RE DISCCART  371965.9  3768719.9  47.81
RE DISCCART  371990.9  3768719.9  47.03
RE DISCCART  372015.9  3768719.9  46.61
RE DISCCART  372040.9  3768719.9  46.03
RE DISCCART  372065.9  3768719.9  45.61
RE DISCCART  372090.9  3768719.9  45.03
RE DISCCART  372115.9  3768719.9  44.61
RE DISCCART  372140.9  3768719.9  44.03
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RE DISCCART  372190.9  3768719.9  43.04
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RE DISCCART  372365.9  3768719.9  40.28
RE DISCCART  371340.9  3768744.9  57.82
RE DISCCART  371365.9  3768744.9  57.32
RE DISCCART  371390.9  3768744.9  56.52
RE DISCCART  371415.9  3768744.9  56.1
** RCPDESCR  Elev 40ft
RE DISCCART  371440.9  3768744.9  55.45
** RCPDESCR  Elev 40ft
RE DISCCART  371465.9  3768744.9  55
RE DISCCART  371490.9  3768744.9  54.45
RE DISCCART  371515.9  3768744.9  54.1
RE DISCCART  371540.9  3768744.9  53.6
RE DISCCART  371565.9  3768744.9  53.3
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RE DISCCART  371615.9  3768744.9  52.6
RE DISCCART  371640.9  3768744.9  52.13
RE DISCCART  371665.9  3768744.9  51.95
RE DISCCART  371690.9  3768744.9  51.45

RE DISCCART  371715.9  3768744.9  51.2
RE DISCCART  371740.9  3768744.9  50.95
RE DISCCART  371765.9  3768744.9  50.7
RE DISCCART  371790.9  3768744.9  50.32
RE DISCCART  371815.9  3768744.9  50.1
RE DISCCART  371840.9  3768744.9  49.8
RE DISCCART  371865.9  3768744.9  49.5
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RE DISCCART  372015.9  3768744.9  46.8
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RE DISCCART  372065.9  3768744.9  45.8
RE DISCCART  372090.9  3768744.9  45.1
RE DISCCART  372115.9  3768744.9  44.8
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RE DISCCART  372190.9  3768744.9  43.3
RE DISCCART  372215.9  3768744.9  42.95
RE DISCCART  372240.9  3768744.9  42.45
RE DISCCART  372265.9  3768744.9  42.1
RE DISCCART  372290.9  3768744.9  41.6
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RE DISCCART  371415.9  3768769.9  55.96
RE DISCCART  371440.9  3768769.9  55.4
RE DISCCART  371465.9  3768769.9  54.96
RE DISCCART  371490.9  3768769.9  54.42
RE DISCCART  371515.9  3768769.9  54.11
RE DISCCART  371540.9  3768769.9  53.53
RE DISCCART  371565.9  3768769.9  53.33
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RE DISCCART  371615.9  3768769.9  52.61
RE DISCCART  371640.9  3768769.9  52.2
RE DISCCART  371665.9  3768769.9  51.96
RE DISCCART  371690.9  3768769.9  51.5
RE DISCCART  371715.9  3768769.9  51.31
RE DISCCART  371740.9  3768769.9  50.92
RE DISCCART  371765.9  3768769.9  50.7
RE DISCCART  371790.9  3768769.9  50.42
RE DISCCART  371815.9  3768769.9  50.11
RE DISCCART  371840.9  3768769.9  49.73
RE DISCCART  371865.9  3768769.9  49.5
RE DISCCART  371890.9  3768769.9  49.03
RE DISCCART  371915.9  3768769.9  48.87
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RE DISCCART  371940.9  3768769.9  48.23
RE DISCCART  371965.9  3768769.9  47.87
RE DISCCART  371990.9  3768769.9  47.03
RE DISCCART  372015.9  3768769.9  46.81
RE DISCCART  372040.9  3768769.9  46.03
RE DISCCART  372065.9  3768769.9  45.81
RE DISCCART  372090.9  3768769.9  45.06
RE DISCCART  372115.9  3768769.9  44.85
RE DISCCART  372140.9  3768769.9  44.05
RE DISCCART  372165.9  3768769.9  43.85
RE DISCCART  372190.9  3768769.9  43.23
RE DISCCART  372215.9  3768769.9  42.96
RE DISCCART  372240.9  3768769.9  42.42
RE DISCCART  372265.9  3768769.9  42.11
RE DISCCART  372290.9  3768769.9  41.53
RE DISCCART  372315.9  3768769.9  41.31
RE DISCCART  372340.9  3768769.9  40.73
RE DISCCART  372365.9  3768769.9  40.47
RE DISCCART  371340.9  3768794.9  57.19
RE DISCCART  371365.9  3768794.9  56.46
RE DISCCART  371390.9  3768794.9  56.02
RE DISCCART  371415.9  3768794.9  55.64
RE DISCCART  371440.9  3768794.9  55.17
RE DISCCART  371465.9  3768794.9  54.82
RE DISCCART  371490.9  3768794.9  54.42
RE DISCCART  371515.9  3768794.9  54.1
RE DISCCART  371540.9  3768794.9  53.6
RE DISCCART  371565.9  3768794.9  53.3
RE DISCCART  371590.9  3768794.9  52.95
RE DISCCART  371615.9  3768794.9  52.6
RE DISCCART  371640.9  3768794.9  52.3
RE DISCCART  371665.9  3768794.9  52
RE DISCCART  371690.9  3768794.9  51.6
RE DISCCART  371715.9  3768794.9  51.33
RE DISCCART  371740.9  3768794.9  51
RE DISCCART  371765.9  3768794.9  50.8
RE DISCCART  371790.9  3768794.9  50.45
RE DISCCART  371815.9  3768794.9  50.1
RE DISCCART  371840.9  3768794.9  49.8
RE DISCCART  371865.9  3768794.9  49.5
RE DISCCART  371890.9  3768794.9  49.1
RE DISCCART  371915.9  3768794.9  48.82
RE DISCCART  371940.9  3768794.9  48.3
RE DISCCART  371965.9  3768794.9  47.85
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RE DISCCART  371990.9  3768794.9  47.2
RE DISCCART  372015.9  3768794.9  46.83
RE DISCCART  372040.9  3768794.9  46.3
RE DISCCART  372065.9  3768794.9  45.85
RE DISCCART  372090.9  3768794.9  45.3
RE DISCCART  372115.9  3768794.9  44.85
RE DISCCART  372140.9  3768794.9  44.3
RE DISCCART  372165.9  3768794.9  43.85
RE DISCCART  372190.9  3768794.9  43.35
RE DISCCART  372215.9  3768794.9  42.98
RE DISCCART  372240.9  3768794.9  42.5
RE DISCCART  372265.9  3768794.9  42.15
RE DISCCART  372290.9  3768794.9  41.73
RE DISCCART  372315.9  3768794.9  41.4
RE DISCCART  372340.9  3768794.9  40.88
RE DISCCART  372365.9  3768794.9  40.6
RE DISCCART  371340.9  3768819.9  56.73
RE DISCCART  371365.9  3768819.9  56.09
RE DISCCART  371390.9  3768819.9  55.49
RE DISCCART  371415.9  3768819.9  55.27
** RCPDESCR  Elev 40ft
RE DISCCART  371440.9  3768819.9  54.9
RE DISCCART  371465.9  3768819.9  54.67
RE DISCCART  371490.9  3768819.9  54.23
RE DISCCART  371515.9  3768819.9  54
RE DISCCART  371540.9  3768819.9  53.53
RE DISCCART  371565.9  3768819.9  53.31
RE DISCCART  371590.9  3768819.9  52.92
RE DISCCART  371615.9  3768819.9  52.61
RE DISCCART  371640.9  3768819.9  52.23
RE DISCCART  371665.9  3768819.9  52
RE DISCCART  371690.9  3768819.9  51.53
RE DISCCART  371715.9  3768819.9  51.46
RE DISCCART  371740.9  3768819.9  51
RE DISCCART  371765.9  3768819.9  50.81
RE DISCCART  371790.9  3768819.9  50.42
RE DISCCART  371815.9  3768819.9  50.11
RE DISCCART  371840.9  3768819.9  49.73
RE DISCCART  371865.9  3768819.9  49.5
RE DISCCART  371890.9  3768819.9  49.03
RE DISCCART  371915.9  3768819.9  48.81
RE DISCCART  371940.9  3768819.9  48.23
RE DISCCART  371965.9  3768819.9  47.87
RE DISCCART  371990.9  3768819.9  47.23
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RE DISCCART  372015.9  3768819.9  46.87
RE DISCCART  372040.9  3768819.9  46.23
RE DISCCART  372065.9  3768819.9  45.87
RE DISCCART  372090.9  3768819.9  45.23
RE DISCCART  372115.9  3768819.9  44.87
RE DISCCART  372140.9  3768819.9  44.23
RE DISCCART  372165.9  3768819.9  43.87
RE DISCCART  372190.9  3768819.9  43.25
RE DISCCART  372215.9  3768819.9  43
RE DISCCART  372240.9  3768819.9  42.52
RE DISCCART  372265.9  3768819.9  42.28
RE DISCCART  372290.9  3768819.9  41.73
RE DISCCART  372315.9  3768819.9  41.46
RE DISCCART  372340.9  3768819.9  40.92
RE DISCCART  372365.9  3768819.9  40.64
RE DISCCART  371340.9  3768844.9  56.45
RE DISCCART  371365.9  3768844.9  55.7
RE DISCCART  371390.9  3768844.9  54.8
RE DISCCART  371415.9  3768844.9  54.7
RE DISCCART  371440.9  3768844.9  54.57
RE DISCCART  371465.9  3768844.9  54.37
RE DISCCART  371490.9  3768844.9  54.1
RE DISCCART  371515.9  3768844.9  53.95
RE DISCCART  371540.9  3768844.9  53.6
RE DISCCART  371565.9  3768844.9  53.3
RE DISCCART  371590.9  3768844.9  52.95
RE DISCCART  371615.9  3768844.9  52.65
RE DISCCART  371640.9  3768844.9  52.23
RE DISCCART  371665.9  3768844.9  51.98
RE DISCCART  371690.9  3768844.9  51.6
RE DISCCART  371715.9  3768844.9  51.32
RE DISCCART  371740.9  3768844.9  51
RE DISCCART  371765.9  3768844.9  50.7
RE DISCCART  371790.9  3768844.9  50.3
RE DISCCART  371815.9  3768844.9  50.1
RE DISCCART  371840.9  3768844.9  49.7
RE DISCCART  371865.9  3768844.9  49.47
RE DISCCART  371890.9  3768844.9  49.1
RE DISCCART  371915.9  3768844.9  48.8
RE DISCCART  371940.9  3768844.9  48.3
RE DISCCART  371965.9  3768844.9  47.85
RE DISCCART  371990.9  3768844.9  47.2
RE DISCCART  372015.9  3768844.9  46.8
RE DISCCART  372040.9  3768844.9  46.3
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RE DISCCART  372065.9  3768844.9  45.85
RE DISCCART  372090.9  3768844.9  45.3
RE DISCCART  372115.9  3768844.9  44.85
RE DISCCART  372140.9  3768844.9  44.3
RE DISCCART  372165.9  3768844.9  43.85
RE DISCCART  372190.9  3768844.9  43.35
RE DISCCART  372215.9  3768844.9  43.05
RE DISCCART  372240.9  3768844.9  42.6
RE DISCCART  372265.9  3768844.9  42.3
RE DISCCART  372290.9  3768844.9  41.8
RE DISCCART  372315.9  3768844.9  41.55
RE DISCCART  372340.9  3768844.9  41.1
RE DISCCART  372365.9  3768844.9  40.8
RE DISCCART  371340.9  3768869.9  56.28
RE DISCCART  371365.9  3768869.9  55.72
RE DISCCART  371390.9  3768869.9  54.73
RE DISCCART  371415.9  3768869.9  54.5
** RCPDESCR  Elev 30ft
RE DISCCART  371440.9  3768869.9  54.23
** RCPDESCR  Elev 40ft
RE DISCCART  371465.9  3768869.9  54.2
RE DISCCART  371490.9  3768869.9  54
RE DISCCART  371515.9  3768869.9  53.96
RE DISCCART  371540.9  3768869.9  53.53
RE DISCCART  371565.9  3768869.9  53.46
RE DISCCART  371590.9  3768869.9  53
RE DISCCART  371615.9  3768869.9  52.81
** RCPDESCR  Elev 30ft
RE DISCCART  371640.9  3768869.9  52.23
** RCPDESCR  Elev 40ft
RE DISCCART  371665.9  3768869.9  52.08
** RCPDESCR  Elev 30ft
RE DISCCART  371690.9  3768869.9  51.53
RE DISCCART  371715.9  3768869.9  51.37
** RCPDESCR  Elev 30ft
RE DISCCART  371740.9  3768869.9  50.99
** RCPDESCR  Elev 30ft
RE DISCCART  371765.9  3768869.9  50.7
RE DISCCART  371790.9  3768869.9  50.23
RE DISCCART  371815.9  3768869.9  50.11
RE DISCCART  371840.9  3768869.9  49.7
RE DISCCART  371865.9  3768869.9  49.46
RE DISCCART  371890.9  3768869.9  49.03
RE DISCCART  371915.9  3768869.9  48.81
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RE DISCCART  371940.9  3768869.9  48.23
RE DISCCART  371965.9  3768869.9  47.87
RE DISCCART  371990.9  3768869.9  47.03
RE DISCCART  372015.9  3768869.9  46.81
RE DISCCART  372040.9  3768869.9  46.19
RE DISCCART  372065.9  3768869.9  45.87
RE DISCCART  372090.9  3768869.9  45.23
RE DISCCART  372115.9  3768869.9  44.87
RE DISCCART  372140.9  3768869.9  44.23
RE DISCCART  372165.9  3768869.9  43.87
RE DISCCART  372190.9  3768869.9  43.25
RE DISCCART  372215.9  3768869.9  43
RE DISCCART  372240.9  3768869.9  42.53
RE DISCCART  372265.9  3768869.9  42.31
RE DISCCART  372290.9  3768869.9  41.75
RE DISCCART  372315.9  3768869.9  41.61
RE DISCCART  372340.9  3768869.9  41.2
RE DISCCART  372365.9  3768869.9  40.96
RE DISCCART  371340.9  3768894.9  56.75
RE DISCCART  371365.9  3768894.9  55.9
RE DISCCART  371390.9  3768894.9  54.88
RE DISCCART  371415.9  3768894.9  54.75
** RCPDESCR  Elev 30ft
RE DISCCART  371440.9  3768894.9  54.53
** RCPDESCR  Elev 40ft
RE DISCCART  371465.9  3768894.9  54.45
RE DISCCART  371490.9  3768894.9  54.23
RE DISCCART  371515.9  3768894.9  54.15
RE DISCCART  371540.9  3768894.9  53.8

RE DISCCART  371565.9  3768894.9  53.5
RE DISCCART  371590.9  3768894.9  53.1
RE DISCCART  371615.9  3768894.9  52.8
** RCPDESCR  Elev 30ft
RE DISCCART  371640.9  3768894.9  52.35
** RCPDESCR  Elev 40ft
RE DISCCART  371665.9  3768894.9  52.1
** RCPDESCR  Elev 30ft
RE DISCCART  371690.9  3768894.9  51.6
RE DISCCART  371715.9  3768894.9  51.35
** RCPDESCR  Elev 30ft
RE DISCCART  371740.9  3768894.9  50.95
** RCPDESCR  Elev 30ft
RE DISCCART  371765.9  3768894.9  50.7
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RE DISCCART  371790.9  3768894.9  50.3
RE DISCCART  371815.9  3768894.9  50.05
RE DISCCART  371840.9  3768894.9  49.6
RE DISCCART  371865.9  3768894.9  49.45
** RCPDESCR  Elev 30ft
RE DISCCART  371890.9  3768894.9  49.1
** RCPDESCR  Elev 40ft
RE DISCCART  371915.9  3768894.9  48.8
RE DISCCART  371940.9  3768894.9  48.3
** RCPDESCR  Elev 40ft
RE DISCCART  371965.9  3768894.9  47.82
** RCPDESCR  Elev 40ft
RE DISCCART  371990.9  3768894.9  47.1
** RCPDESCR  Elev 30ft
RE DISCCART  372015.9  3768894.9  46.8
** RCPDESCR  Elev 30ft
RE DISCCART  372040.9  3768894.9  46.1
RE DISCCART  372065.9  3768894.9  45.82
RE DISCCART  372090.9  3768894.9  45.3
RE DISCCART  372115.9  3768894.9  44.85
RE DISCCART  372140.9  3768894.9  44.3
RE DISCCART  372165.9  3768894.9  43.85
RE DISCCART  372190.9  3768894.9  43.35
RE DISCCART  372215.9  3768894.9  42.95
RE DISCCART  372240.9  3768894.9  42.5
RE DISCCART  372265.9  3768894.9  42.3
RE DISCCART  372290.9  3768894.9  41.95
RE DISCCART  372315.9  3768894.9  41.6
RE DISCCART  372340.9  3768894.9  41.3
RE DISCCART  372365.9  3768894.9  41.05
RE DISCCART  371340.9  3768919.9  56.78
RE DISCCART  371365.9  3768919.9  56.17
RE DISCCART  371390.9  3768919.9  55.23
RE DISCCART  371415.9  3768919.9  55.11
RE DISCCART  371440.9  3768919.9  54.73
RE DISCCART  371465.9  3768919.9  54.64
RE DISCCART  371490.9  3768919.9  54.52
RE DISCCART  371515.9  3768919.9  54.35
RE DISCCART  371540.9  3768919.9  53.76
RE DISCCART  371565.9  3768919.9  53.61
RE DISCCART  371590.9  3768919.9  53.03
RE DISCCART  371615.9  3768919.9  52.81
RE DISCCART  371640.9  3768919.9  52.42
RE DISCCART  371665.9  3768919.9  52.11
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** RCPDESCR  Elev 30ft
RE DISCCART  371690.9  3768919.9  51.53
RE DISCCART  371715.9  3768919.9  51.46
RE DISCCART  371740.9  3768919.9  51
RE DISCCART  371765.9  3768919.9  50.7
RE DISCCART  371790.9  3768919.9  50.23
RE DISCCART  371815.9  3768919.9  50
RE DISCCART  371840.9  3768919.9  49.53
RE DISCCART  371865.9  3768919.9  49.33
** RCPDESCR  Elev 30ft
RE DISCCART  371890.9  3768919.9  49
** RCPDESCR  Elev 40ft
RE DISCCART  371915.9  3768919.9  48.73
RE DISCCART  371940.9  3768919.9  48.03
** RCPDESCR  Elev 40ft
RE DISCCART  371965.9  3768919.9  47.81
** RCPDESCR  Elev 40ft
RE DISCCART  371990.9  3768919.9  47.03
** RCPDESCR  Elev 30ft
RE DISCCART  372015.9  3768919.9  46.67
** RCPDESCR  Elev 30ft
RE DISCCART  372040.9  3768919.9  46.03
RE DISCCART  372065.9  3768919.9  45.81
RE DISCCART  372090.9  3768919.9  45.23
RE DISCCART  372115.9  3768919.9  44.87
RE DISCCART  372140.9  3768919.9  44.23
RE DISCCART  372165.9  3768919.9  43.87
RE DISCCART  372190.9  3768919.9  43.25
RE DISCCART  372215.9  3768919.9  42.96
RE DISCCART  372240.9  3768919.9  42.5
RE DISCCART  372265.9  3768919.9  42.31
RE DISCCART  372290.9  3768919.9  41.92
RE DISCCART  372315.9  3768919.9  41.7
RE DISCCART  372340.9  3768919.9  41.25
RE DISCCART  372365.9  3768919.9  41.11
RE DISCCART  371340.9  3768944.9  57.25
RE DISCCART  371365.9  3768944.9  56.49
RE DISCCART  371390.9  3768944.9  55.92
RE DISCCART  371415.9  3768944.9  55.65
RE DISCCART  371440.9  3768944.9  55.28
RE DISCCART  371465.9  3768944.9  55.11
RE DISCCART  371490.9  3768944.9  54.82
RE DISCCART  371515.9  3768944.9  54.48
RE DISCCART  371540.9  3768944.9  54
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RE DISCCART  371565.9  3768944.9  53.6
RE DISCCART  371590.9  3768944.9  53.2
RE DISCCART  371615.9  3768944.9  52.9
RE DISCCART  371640.9  3768944.9  52.45
RE DISCCART  371665.9  3768944.9  52.1
** RCPDESCR  Elev 30ft
RE DISCCART  371690.9  3768944.9  51.7
RE DISCCART  371715.9  3768944.9  51.45
RE DISCCART  371740.9  3768944.9  51
RE DISCCART  371765.9  3768944.9  50.7
RE DISCCART  371790.9  3768944.9  50.3
RE DISCCART  371815.9  3768944.9  50
RE DISCCART  371840.9  3768944.9  49.5
RE DISCCART  371865.9  3768944.9  49.2
RE DISCCART  371890.9  3768944.9  48.7
RE DISCCART  371915.9  3768944.9  48.55
RE DISCCART  371940.9  3768944.9  48.07
RE DISCCART  371965.9  3768944.9  47.6
RE DISCCART  371990.9  3768944.9  47.1
RE DISCCART  372015.9  3768944.9  46.6
RE DISCCART  372040.9  3768944.9  46.1
RE DISCCART  372065.9  3768944.9  45.7
RE DISCCART  372090.9  3768944.9  45.2
RE DISCCART  372115.9  3768944.9  44.85
RE DISCCART  372140.9  3768944.9  44.35
RE DISCCART  372165.9  3768944.9  43.95
RE DISCCART  372190.9  3768944.9  43.38
RE DISCCART  372215.9  3768944.9  43.1
RE DISCCART  372240.9  3768944.9  42.6
RE DISCCART  372265.9  3768944.9  42.33
RE DISCCART  372290.9  3768944.9  42
RE DISCCART  372315.9  3768944.9  41.8
RE DISCCART  372340.9  3768944.9  41.47
RE DISCCART  372365.9  3768944.9  41.25
RE DISCCART  371340.9  3768969.9  57.26
RE DISCCART  371365.9  3768969.9  56.8
RE DISCCART  371390.9  3768969.9  56.06
RE DISCCART  371415.9  3768969.9  55.9
RE DISCCART  371440.9  3768969.9  55.52
RE DISCCART  371465.9  3768969.9  55.35
RE DISCCART  371490.9  3768969.9  54.75
RE DISCCART  371515.9  3768969.9  54.61
RE DISCCART  371540.9  3768969.9  54.02
RE DISCCART  371565.9  3768969.9  53.61
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RE DISCCART  371590.9  3768969.9  53.2
RE DISCCART  371615.9  3768969.9  52.96
RE DISCCART  371640.9  3768969.9  52.42
RE DISCCART  371665.9  3768969.9  52.11
RE DISCCART  371690.9  3768969.9  51.7
RE DISCCART  371715.9  3768969.9  51.46
RE DISCCART  371740.9  3768969.9  51
RE DISCCART  371765.9  3768969.9  50.7
RE DISCCART  371790.9  3768969.9  50.23
RE DISCCART  371815.9  3768969.9  50
RE DISCCART  371840.9  3768969.9  49.5
RE DISCCART  371865.9  3768969.9  49.17
** RCPDESCR  Elev 30ft
RE DISCCART  371890.9  3768969.9  48.7
RE DISCCART  371915.9  3768969.9  48.42
RE DISCCART  371940.9  3768969.9  47.92
RE DISCCART  371965.9  3768969.9  47.61
RE DISCCART  371990.9  3768969.9  47.03
RE DISCCART  372015.9  3768969.9  46.61
RE DISCCART  372040.9  3768969.9  46.03
RE DISCCART  372065.9  3768969.9  45.7
RE DISCCART  372090.9  3768969.9  45.2
RE DISCCART  372115.9  3768969.9  44.87
RE DISCCART  372140.9  3768969.9  44.25
RE DISCCART  372165.9  3768969.9  43.96
RE DISCCART  372190.9  3768969.9  43.42
RE DISCCART  372215.9  3768969.9  43.11
RE DISCCART  372240.9  3768969.9  42.53
RE DISCCART  372265.9  3768969.9  42.46
RE DISCCART  372290.9  3768969.9  42.03
** RCPDESCR  Elev 40ft
RE DISCCART  372315.9  3768969.9  41.85
** RCPDESCR  Elev 40ft
RE DISCCART  372340.9  3768969.9  41.5
RE DISCCART  372365.9  3768969.9  41.31
RE DISCCART  371340.9  3768994.9  57.57
RE DISCCART  371365.9  3768994.9  57.08
RE DISCCART  371390.9  3768994.9  56.42
RE DISCCART  371415.9  3768994.9  56.1
RE DISCCART  371440.9  3768994.9  55.67
RE DISCCART  371465.9  3768994.9  55.35
RE DISCCART  371490.9  3768994.9  54.8
RE DISCCART  371515.9  3768994.9  54.5
RE DISCCART  371540.9  3768994.9  54.1
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RE DISCCART  371565.9  3768994.9  53.7
RE DISCCART  371590.9  3768994.9  53.3
RE DISCCART  371615.9  3768994.9  52.85
RE DISCCART  371640.9  3768994.9  52.45
RE DISCCART  371665.9  3768994.9  52.1
RE DISCCART  371690.9  3768994.9  51.7
RE DISCCART  371715.9  3768994.9  51.45
RE DISCCART  371815.9  3768994.9  49.95
RE DISCCART  371840.9  3768994.9  49.45
RE DISCCART  371865.9  3768994.9  49.1
** RCPDESCR  Elev 30ft
RE DISCCART  371890.9  3768994.9  48.7
RE DISCCART  371915.9  3768994.9  48.35
RE DISCCART  371940.9  3768994.9  47.85
RE DISCCART  371965.9  3768994.9  47.6
RE DISCCART  371990.9  3768994.9  46.95
RE DISCCART  372015.9  3768994.9  46.6
RE DISCCART  372040.9  3768994.9  46.1
RE DISCCART  372065.9  3768994.9  45.65
RE DISCCART  372090.9  3768994.9  45.2
RE DISCCART  372115.9  3768994.9  44.95
RE DISCCART  372140.9  3768994.9  44.45
RE DISCCART  372165.9  3768994.9  44.1
RE DISCCART  372190.9  3768994.9  43.6
RE DISCCART  372215.9  3768994.9  43.25
RE DISCCART  372240.9  3768994.9  42.8
RE DISCCART  372265.9  3768994.9  42.5
RE DISCCART  372290.9  3768994.9  42.2
** RCPDESCR  Elev 40ft
RE DISCCART  372315.9  3768994.9  41.98
** RCPDESCR  Elev 40ft
RE DISCCART  372340.9  3768994.9  41.63
RE DISCCART  372365.9  3768994.9  41.48
RE DISCCART  371340.9  3769019.9  57.56
RE DISCCART  371365.9  3769019.9  57.11
RE DISCCART  371390.9  3769019.9  56.53
RE DISCCART  371415.9  3769019.9  56.14
RE DISCCART  371440.9  3769019.9  55.53
RE DISCCART  371465.9  3769019.9  55.31
RE DISCCART  371490.9  3769019.9  54.7
RE DISCCART  371515.9  3769019.9  54.46
RE DISCCART  371540.9  3769019.9  54
RE DISCCART  371565.9  3769019.9  53.7
RE DISCCART  371590.9  3769019.9  53.23
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RE DISCCART  371615.9  3769019.9  52.96
RE DISCCART  371640.9  3769019.9  52.44
RE DISCCART  371665.9  3769019.9  52.14
RE DISCCART  371690.9  3769019.9  51.7
RE DISCCART  371715.9  3769019.9  51.46
RE DISCCART  371740.9  3769019.9  50.99
RE DISCCART  371765.9  3769019.9  50.67
RE DISCCART  371790.9  3769019.9  50.2
RE DISCCART  371815.9  3769019.9  49.96
RE DISCCART  371840.9  3769019.9  49.42
RE DISCCART  371865.9  3769019.9  49.11
RE DISCCART  371890.9  3769019.9  48.7
RE DISCCART  371915.9  3769019.9  48.37
RE DISCCART  371940.9  3769019.9  47.75
RE DISCCART  371965.9  3769019.9  47.61
RE DISCCART  371990.9  3769019.9  46.92
RE DISCCART  372015.9  3769019.9  46.61
RE DISCCART  372040.9  3769019.9  46.03
RE DISCCART  372065.9  3769019.9  45.78
RE DISCCART  372090.9  3769019.9  45.23
RE DISCCART  372115.9  3769019.9  44.96
RE DISCCART  372140.9  3769019.9  44.42

RE DISCCART  372165.9  3769019.9  44.11
RE DISCCART  372190.9  3769019.9  43.53
RE DISCCART  372215.9  3769019.9  43.35
RE DISCCART  372240.9  3769019.9  42.76
RE DISCCART  372265.9  3769019.9  42.61
RE DISCCART  372290.9  3769019.9  42.22
RE DISCCART  372315.9  3769019.9  42.08
RE DISCCART  372340.9  3769019.9  41.72
RE DISCCART  372365.9  3769019.9  41.58
RE DISCCART  371340.9  3769044.9  57.7
RE DISCCART  371365.9  3769044.9  57.15
RE DISCCART  371390.9  3769044.9  56.6
RE DISCCART  371415.9  3769044.9  56.1
RE DISCCART  371440.9  3769044.9  55.6
RE DISCCART  371465.9  3769044.9  55.1
RE DISCCART  371490.9  3769044.9  54.6
RE DISCCART  371515.9  3769044.9  54.45
RE DISCCART  371540.9  3769044.9  53.98
RE DISCCART  371565.9  3769044.9  53.7
RE DISCCART  371590.9  3769044.9  53.3
RE DISCCART  371615.9  3769044.9  53
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RE DISCCART  371640.9  3769044.9  52.6
** RCPDESCR  Elev 40ft
RE DISCCART  371665.9  3769044.9  52.3
** RCPDESCR  Elev 40ft
RE DISCCART  371690.9  3769044.9  51.84
RE DISCCART  371715.9  3769044.9  51.4
RE DISCCART  371740.9  3769044.9  50.95
RE DISCCART  371765.9  3769044.9  50.7
RE DISCCART  371790.9  3769044.9  50.3
RE DISCCART  371815.9  3769044.9  49.95
** RCPDESCR  Elev 30ft
RE DISCCART  371840.9  3769044.9  49.5
** RCPDESCR  Elev 30ft
RE DISCCART  371865.9  3769044.9  49.2
RE DISCCART  371890.9  3769044.9  48.73
RE DISCCART  371915.9  3769044.9  48.45
RE DISCCART  371940.9  3769044.9  47.95
RE DISCCART  371965.9  3769044.9  47.6
RE DISCCART  371990.9  3769044.9  47.1
RE DISCCART  372015.9  3769044.9  46.6
RE DISCCART  372040.9  3769044.9  46.1
RE DISCCART  372065.9  3769044.9  45.8
RE DISCCART  372090.9  3769044.9  45.3
RE DISCCART  372115.9  3769044.9  45
RE DISCCART  372140.9  3769044.9  44.6
RE DISCCART  372165.9  3769044.9  44.25
RE DISCCART  372190.9  3769044.9  43.8
RE DISCCART  372215.9  3769044.9  43.48
RE DISCCART  372240.9  3769044.9  43.03
RE DISCCART  372265.9  3769044.9  42.75
RE DISCCART  372290.9  3769044.9  42.47
RE DISCCART  372315.9  3769044.9  42.38
RE DISCCART  372340.9  3769044.9  41.97
RE DISCCART  372365.9  3769044.9  41.75
RE DISCCART  371340.9  3769069.9  57.56
RE DISCCART  371365.9  3769069.9  57.22
RE DISCCART  371390.9  3769069.9  56.53
RE DISCCART  371415.9  3769069.9  56.11
RE DISCCART  371440.9  3769069.9  55.53
RE DISCCART  371465.9  3769069.9  55.11
RE DISCCART  371490.9  3769069.9  54.53
RE DISCCART  371515.9  3769069.9  54.42
RE DISCCART  371540.9  3769069.9  53.99
RE DISCCART  371565.9  3769069.9  53.7
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RE DISCCART  371590.9  3769069.9  53.23
RE DISCCART  371615.9  3769069.9  53
RE DISCCART  371640.9  3769069.9  52.53
** RCPDESCR  Elev 40ft
RE DISCCART  371665.9  3769069.9  52.31
** RCPDESCR  Elev 40ft
RE DISCCART  371690.9  3769069.9  51.74
RE DISCCART  371715.9  3769069.9  51.58
RE DISCCART  371740.9  3769069.9  51.03
RE DISCCART  371765.9  3769069.9  50.78
RE DISCCART  371790.9  3769069.9  50.23
RE DISCCART  371815.9  3769069.9  49.96
RE DISCCART  371840.9  3769069.9  49.5
RE DISCCART  371865.9  3769069.9  49.2
RE DISCCART  371890.9  3769069.9  48.73
RE DISCCART  371915.9  3769069.9  48.46
RE DISCCART  371940.9  3769069.9  47.92
RE DISCCART  371965.9  3769069.9  47.61
RE DISCCART  371990.9  3769069.9  47.03
RE DISCCART  372015.9  3769069.9  46.78
RE DISCCART  372040.9  3769069.9  46.03
RE DISCCART  372065.9  3769069.9  45.85
RE DISCCART  372090.9  3769069.9  45.25
RE DISCCART  372115.9  3769069.9  45.11
RE DISCCART  372140.9  3769069.9  44.53
RE DISCCART  372165.9  3769069.9  44.38
RE DISCCART  372190.9  3769069.9  43.76
RE DISCCART  372215.9  3769069.9  43.61
RE DISCCART  372240.9  3769069.9  43.04
RE DISCCART  372265.9  3769069.9  42.9
RE DISCCART  372290.9  3769069.9  42.7
RE DISCCART  372315.9  3769069.9  42.47
RE DISCCART  372340.9  3769069.9  42.03
RE DISCCART  372365.9  3769069.9  41.85
RE DISCCART  371340.9  3769094.9  57.67
RE DISCCART  371365.9  3769094.9  57.1
RE DISCCART  371390.9  3769094.9  56.55
RE DISCCART  371415.9  3769094.9  56.1
RE DISCCART  371440.9  3769094.9  55.52
RE DISCCART  371465.9  3769094.9  55.1
RE DISCCART  371490.9  3769094.9  54.6
RE DISCCART  371515.9  3769094.9  54.35
RE DISCCART  371540.9  3769094.9  53.95
RE DISCCART  371565.9  3769094.9  53.7
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RE DISCCART  371590.9  3769094.9  53.3
RE DISCCART  371615.9  3769094.9  53
RE DISCCART  371640.9  3769094.9  52.6
RE DISCCART  371665.9  3769094.9  52.3
RE DISCCART  371690.9  3769094.9  51.88
RE DISCCART  371715.9  3769094.9  51.6
RE DISCCART  371740.9  3769094.9  51.1
RE DISCCART  371765.9  3769094.9  50.83
RE DISCCART  371790.9  3769094.9  50.38
RE DISCCART  371815.9  3769094.9  50.1
RE DISCCART  371840.9  3769094.9  49.6
RE DISCCART  371865.9  3769094.9  49.25
RE DISCCART  371890.9  3769094.9  48.8
RE DISCCART  371915.9  3769094.9  48.45
RE DISCCART  371940.9  3769094.9  48.03
RE DISCCART  371965.9  3769094.9  47.75
RE DISCCART  371990.9  3769094.9  47.17
RE DISCCART  372015.9  3769094.9  46.83
RE DISCCART  372040.9  3769094.9  46.3
RE DISCCART  372065.9  3769094.9  45.9
RE DISCCART  372090.9  3769094.9  45.45
RE DISCCART  372115.9  3769094.9  45.1
RE DISCCART  372140.9  3769094.9  44.73
RE DISCCART  372165.9  3769094.9  44.48
RE DISCCART  372190.9  3769094.9  44.03
RE DISCCART  372215.9  3769094.9  43.8
RE DISCCART  372240.9  3769094.9  43.38
RE DISCCART  372265.9  3769094.9  43.15
RE DISCCART  372290.9  3769094.9  42.82
RE DISCCART  372315.9  3769094.9  42.6
RE DISCCART  372340.9  3769094.9  42.2
RE DISCCART  372365.9  3769094.9  41.98
RE DISCCART  371340.9  3769119.9  57.53
RE DISCCART  371365.9  3769119.9  57.11
RE DISCCART  371390.9  3769119.9  56.42
RE DISCCART  371415.9  3769119.9  56.11
RE DISCCART  371440.9  3769119.9  55.42
RE DISCCART  371465.9  3769119.9  55.11
RE DISCCART  371490.9  3769119.9  54.53
RE DISCCART  371515.9  3769119.9  54.37
RE DISCCART  371540.9  3769119.9  53.92
RE DISCCART  371565.9  3769119.9  53.7
RE DISCCART  371590.9  3769119.9  53.23
RE DISCCART  371615.9  3769119.9  53
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RE DISCCART  371640.9  3769119.9  52.53
RE DISCCART  371665.9  3769119.9  52.37
RE DISCCART  371690.9  3769119.9  51.92
RE DISCCART  371715.9  3769119.9  51.61
RE DISCCART  371740.9  3769119.9  51.03
** RCPDESCR  Elev 30ft
RE DISCCART  371765.9  3769119.9  50.87
RE DISCCART  371790.9  3769119.9  50.42
RE DISCCART  371815.9  3769119.9  50.11
RE DISCCART  371840.9  3769119.9  49.53
RE DISCCART  371865.9  3769119.9  49.31
RE DISCCART  371890.9  3769119.9  48.73
RE DISCCART  371915.9  3769119.9  48.5
RE DISCCART  371940.9  3769119.9  48.04
RE DISCCART  371965.9  3769119.9  47.85
RE DISCCART  371990.9  3769119.9  47.23
RE DISCCART  372015.9  3769119.9  46.9
RE DISCCART  372040.9  3769119.9  46.25
RE DISCCART  372065.9  3769119.9  45.96
RE DISCCART  372090.9  3769119.9  45.5
RE DISCCART  372115.9  3769119.9  45.2
RE DISCCART  372140.9  3769119.9  44.73
RE DISCCART  372165.9  3769119.9  44.58
RE DISCCART  372190.9  3769119.9  44.04
RE DISCCART  372215.9  3769119.9  43.9
RE DISCCART  372240.9  3769119.9  43.52
RE DISCCART  372265.9  3769119.9  43.31
RE DISCCART  372290.9  3769119.9  42.92
RE DISCCART  372315.9  3769119.9  42.61
RE DISCCART  372340.9  3769119.9  42.23
RE DISCCART  372365.9  3769119.9  42.11
RE DISCCART  371340.9  3769144.9  57.6
RE DISCCART  371365.9  3769144.9  57.1
RE DISCCART  371390.9  3769144.9  56.45
RE DISCCART  371415.9  3769144.9  56.1
RE DISCCART  371440.9  3769144.9  55.45
RE DISCCART  371465.9  3769144.9  55.1
RE DISCCART  371490.9  3769144.9  54.6
RE DISCCART  371515.9  3769144.9  54.4
RE DISCCART  371540.9  3769144.9  54
RE DISCCART  371565.9  3769144.9  53.8
RE DISCCART  371590.9  3769144.9  53.35
RE DISCCART  371615.9  3769144.9  53.1
RE DISCCART  371640.9  3769144.9  52.7
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RE DISCCART  371665.9  3769144.9  52.45
RE DISCCART  371690.9  3769144.9  51.97
RE DISCCART  371715.9  3769144.9  51.6
RE DISCCART  371740.9  3769144.9  51.3
RE DISCCART  371765.9  3769144.9  50.95
RE DISCCART  371790.9  3769144.9  50.5
RE DISCCART  371815.9  3769144.9  50.2
RE DISCCART  371840.9  3769144.9  49.8
RE DISCCART  371865.9  3769144.9  49.45
RE DISCCART  371890.9  3769144.9  48.97
RE DISCCART  371915.9  3769144.9  48.75
RE DISCCART  371940.9  3769144.9  48.35
RE DISCCART  371965.9  3769144.9  47.95
RE DISCCART  371990.9  3769144.9  47.45
RE DISCCART  372015.9  3769144.9  47.1
RE DISCCART  372040.9  3769144.9  46.45
RE DISCCART  372065.9  3769144.9  46.1
RE DISCCART  372090.9  3769144.9  45.6
RE DISCCART  372115.9  3769144.9  45.3
RE DISCCART  372140.9  3769144.9  44.97
RE DISCCART  372165.9  3769144.9  44.75
RE DISCCART  372190.9  3769144.9  44.35
RE DISCCART  372215.9  3769144.9  44.1
RE DISCCART  372240.9  3769144.9  43.63
RE DISCCART  372265.9  3769144.9  43.45
RE DISCCART  372290.9  3769144.9  43.03
RE DISCCART  372315.9  3769144.9  42.8
RE DISCCART  372340.9  3769144.9  42.45
RE DISCCART  372365.9  3769144.9  42.2
RE DISCCART  371340.9  3769169.9  57.52
RE DISCCART  371365.9  3769169.9  57.07
RE DISCCART  371390.9  3769169.9  56.42
RE DISCCART  371415.9  3769169.9  56.11
RE DISCCART  371440.9  3769169.9  55.42
RE DISCCART  371465.9  3769169.9  55.11
RE DISCCART  371490.9  3769169.9  54.53
RE DISCCART  371515.9  3769169.9  54.46
RE DISCCART  371540.9  3769169.9  54.02
RE DISCCART  371565.9  3769169.9  53.81
RE DISCCART  371590.9  3769169.9  53.42
RE DISCCART  371615.9  3769169.9  53.11
RE DISCCART  371640.9  3769169.9  52.7
RE DISCCART  371665.9  3769169.9  52.46
RE DISCCART  371690.9  3769169.9  52.02
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** RCPDESCR  Elev 40ft
RE DISCCART  371715.9  3769169.9  51.78
RE DISCCART  371740.9  3769169.9  51.23
RE DISCCART  371765.9  3769169.9  50.96
RE DISCCART  371790.9  3769169.9  50.5
RE DISCCART  371815.9  3769169.9  50.2
RE DISCCART  371840.9  3769169.9  49.73
RE DISCCART  371865.9  3769169.9  49.58
RE DISCCART  371890.9  3769169.9  49.04
RE DISCCART  371915.9  3769169.9  48.96
RE DISCCART  371940.9  3769169.9  48.42
RE DISCCART  371965.9  3769169.9  48.11
RE DISCCART  371990.9  3769169.9  47.44
RE DISCCART  372015.9  3769169.9  47.11
RE DISCCART  372040.9  3769169.9  46.53

RE DISCCART  372065.9  3769169.9  46.11
RE DISCCART  372090.9  3769169.9  45.53
RE DISCCART  372115.9  3769169.9  45.47
RE DISCCART  372140.9  3769169.9  45.03
RE DISCCART  372165.9  3769169.9  44.85
RE DISCCART  372190.9  3769169.9  44.42
RE DISCCART  372215.9  3769169.9  44.14
RE DISCCART  372240.9  3769169.9  43.73
RE DISCCART  372265.9  3769169.9  43.5
RE DISCCART  372290.9  3769169.9  43.03
RE DISCCART  372315.9  3769169.9  42.85
** RCPDESCR  Elev 40ft
RE DISCCART  372340.9  3769169.9  42.5
RE DISCCART  372365.9  3769169.9  42.31
RE DISCCART  371340.9  3769194.9  57.55
RE DISCCART  371365.9  3769194.9  57.1
RE DISCCART  371390.9  3769194.9  56.45
RE DISCCART  371415.9  3769194.9  56.1
RE DISCCART  371440.9  3769194.9  55.6
RE DISCCART  371465.9  3769194.9  55.25
RE DISCCART  371490.9  3769194.9  54.82
RE DISCCART  371515.9  3769194.9  54.55
RE DISCCART  371540.9  3769194.9  54.1
RE DISCCART  371565.9  3769194.9  53.9
** RCPDESCR  Elev 50ft
RE DISCCART  371590.9  3769194.9  53.47
RE DISCCART  371615.9  3769194.9  53.15
RE DISCCART  371640.9  3769194.9  52.8
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RE DISCCART  371665.9  3769194.9  52.5
RE DISCCART  371690.9  3769194.9  52.1
RE DISCCART  371715.9  3769194.9  51.8
RE DISCCART  371740.9  3769194.9  51.3
RE DISCCART  371765.9  3769194.9  51
RE DISCCART  371790.9  3769194.9  50.6
RE DISCCART  371815.9  3769194.9  50.33
RE DISCCART  371840.9  3769194.9  49.95
RE DISCCART  371865.9  3769194.9  49.65
RE DISCCART  371890.9  3769194.9  49.3
RE DISCCART  371915.9  3769194.9  48.98
RE DISCCART  371940.9  3769194.9  48.53
RE DISCCART  371965.9  3769194.9  48.21
RE DISCCART  371990.9  3769194.9  47.6
RE DISCCART  372015.9  3769194.9  47.33
RE DISCCART  372040.9  3769194.9  46.67
RE DISCCART  372065.9  3769194.9  46.33
RE DISCCART  372090.9  3769194.9  45.97
RE DISCCART  372115.9  3769194.9  45.75
RE DISCCART  372140.9  3769194.9  45.3
RE DISCCART  372165.9  3769194.9  45.05
RE DISCCART  372190.9  3769194.9  44.6
RE DISCCART  372215.9  3769194.9  44.38
RE DISCCART  372240.9  3769194.9  43.95
RE DISCCART  372265.9  3769194.9  43.65
RE DISCCART  372290.9  3769194.9  43.3
RE DISCCART  372315.9  3769194.9  43.05
RE DISCCART  372340.9  3769194.9  42.7
RE DISCCART  372365.9  3769194.9  42.5
RE DISCCART  371340.9  3769219.9  57.42
RE DISCCART  371365.9  3769219.9  57.11
RE DISCCART  371390.9  3769219.9  56.42
RE DISCCART  371415.9  3769219.9  56.11
RE DISCCART  371440.9  3769219.9  55.53
RE DISCCART  371465.9  3769219.9  55.35
RE DISCCART  371490.9  3769219.9  54.76
RE DISCCART  371515.9  3769219.9  54.61
RE DISCCART  371540.9  3769219.9  54.2
RE DISCCART  371565.9  3769219.9  53.96
** RCPDESCR  Elev 50ft
RE DISCCART  371590.9  3769219.9  53.5
RE DISCCART  371615.9  3769219.9  53.28
RE DISCCART  371640.9  3769219.9  52.73
RE DISCCART  371665.9  3769219.9  52.5
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RE DISCCART  371690.9  3769219.9  52.03
RE DISCCART  371715.9  3769219.9  51.81
RE DISCCART  371740.9  3769219.9  51.26
RE DISCCART  371765.9  3769219.9  51.11
RE DISCCART  371790.9  3769219.9  50.53
RE DISCCART  371815.9  3769219.9  50.4
RE DISCCART  371840.9  3769219.9  50
RE DISCCART  371865.9  3769219.9  49.7
RE DISCCART  371890.9  3769219.9  49.24
RE DISCCART  371915.9  3769219.9  49.11
RE DISCCART  371940.9  3769219.9  48.53
RE DISCCART  371965.9  3769219.9  48.31
RE DISCCART  371990.9  3769219.9  47.73
RE DISCCART  372015.9  3769219.9  47.37
RE DISCCART  372040.9  3769219.9  46.74
RE DISCCART  372065.9  3769219.9  46.55
RE DISCCART  372090.9  3769219.9  46.03
RE DISCCART  372115.9  3769219.9  45.81
RE DISCCART  372140.9  3769219.9  45.26
RE DISCCART  372165.9  3769219.9  45.11
RE DISCCART  372190.9  3769219.9  44.7
RE DISCCART  372215.9  3769219.9  44.46
RE DISCCART  372240.9  3769219.9  44.02
RE DISCCART  372265.9  3769219.9  43.78
RE DISCCART  372290.9  3769219.9  43.26
RE DISCCART  372315.9  3769219.9  43.14
RE DISCCART  372340.9  3769219.9  42.74
RE DISCCART  372365.9  3769219.9  42.61
RE DISCCART  371340.9  3769244.9  57.35
RE DISCCART  371365.9  3769244.9  57.1
RE DISCCART  371390.9  3769244.9  56.6
RE DISCCART  371415.9  3769244.9  56.2
RE DISCCART  371440.9  3769244.9  55.8
RE DISCCART  371465.9  3769244.9  55.45
RE DISCCART  371490.9  3769244.9  55
RE DISCCART  371515.9  3769244.9  54.7
RE DISCCART  371540.9  3769244.9  54.3
RE DISCCART  371565.9  3769244.9  54
RE DISCCART  371590.9  3769244.9  53.6
RE DISCCART  371615.9  3769244.9  53.3
RE DISCCART  371640.9  3769244.9  52.85
RE DISCCART  371665.9  3769244.9  52.6
RE DISCCART  371690.9  3769244.9  52.1
** RCPDESCR  Elev 40ft
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RE DISCCART  371715.9  3769244.9  51.95
RE DISCCART  371740.9  3769244.9  51.45
RE DISCCART  371765.9  3769244.9  51.1
RE DISCCART  371790.9  3769244.9  50.7
RE DISCCART  371815.9  3769244.9  50.45
RE DISCCART  371840.9  3769244.9  50.03
RE DISCCART  371865.9  3769244.9  49.8
RE DISCCART  371890.9  3769244.9  49.45
RE DISCCART  371915.9  3769244.9  49.1
RE DISCCART  371940.9  3769244.9  48.63
RE DISCCART  371965.9  3769244.9  48.35
RE DISCCART  371990.9  3769244.9  47.85
RE DISCCART  372015.9  3769244.9  47.48
RE DISCCART  372040.9  3769244.9  46.95
RE DISCCART  372065.9  3769244.9  46.6
RE DISCCART  372090.9  3769244.9  46.2
RE DISCCART  372115.9  3769244.9  45.95
RE DISCCART  372140.9  3769244.9  45.5
RE DISCCART  372165.9  3769244.9  45.25
RE DISCCART  372190.9  3769244.9  44.85
RE DISCCART  372215.9  3769244.9  44.6
RE DISCCART  372240.9  3769244.9  44.13
RE DISCCART  372265.9  3769244.9  43.9
RE DISCCART  372290.9  3769244.9  43.53
RE DISCCART  372315.9  3769244.9  43.33
RE DISCCART  372340.9  3769244.9  43
RE DISCCART  372365.9  3769244.9  42.8
RE DISCCART  371340.9  3769269.9  57.25
RE DISCCART  371365.9  3769269.9  57.03
RE DISCCART  371390.9  3769269.9  56.53
RE DISCCART  371415.9  3769269.9  56.31
RE DISCCART  371440.9  3769269.9  55.73
RE DISCCART  371465.9  3769269.9  55.5
RE DISCCART  371490.9  3769269.9  55.03
RE DISCCART  371515.9  3769269.9  54.81
RE DISCCART  371540.9  3769269.9  54.24
RE DISCCART  371565.9  3769269.9  54.11
RE DISCCART  371590.9  3769269.9  53.53
RE DISCCART  371615.9  3769269.9  53.35
RE DISCCART  371640.9  3769269.9  52.76
RE DISCCART  371665.9  3769269.9  52.61
RE DISCCART  371690.9  3769269.9  52.2
RE DISCCART  371715.9  3769269.9  51.96
RE DISCCART  371740.9  3769269.9  51.42
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RE DISCCART  371765.9  3769269.9  51.11
RE DISCCART  371790.9  3769269.9  50.73
RE DISCCART  371815.9  3769269.9  50.47
RE DISCCART  371840.9  3769269.9  50.03
RE DISCCART  371865.9  3769269.9  49.85
RE DISCCART  371890.9  3769269.9  49.42
RE DISCCART  371915.9  3769269.9  49.11
RE DISCCART  371940.9  3769269.9  48.72
RE DISCCART  371965.9  3769269.9  48.46
RE DISCCART  371990.9  3769269.9  47.76
RE DISCCART  372015.9  3769269.9  47.61
RE DISCCART  372040.9  3769269.9  47.02
RE DISCCART  372065.9  3769269.9  46.78
RE DISCCART  372090.9  3769269.9  46.23
RE DISCCART  372115.9  3769269.9  46
RE DISCCART  372140.9  3769269.9  45.53
RE DISCCART  372165.9  3769269.9  45.35
RE DISCCART  372190.9  3769269.9  44.92
RE DISCCART  372215.9  3769269.9  44.64
RE DISCCART  372240.9  3769269.9  44.23
RE DISCCART  372265.9  3769269.9  44
RE DISCCART  372290.9  3769269.9  43.53
RE DISCCART  372315.9  3769269.9  43.46
RE DISCCART  372340.9  3769269.9  43.03
RE DISCCART  372365.9  3769269.9  42.97
RE DISCCART  371340.9  3769294.9  57.35
RE DISCCART  371365.9  3769294.9  57
RE DISCCART  371390.9  3769294.9  56.6
RE DISCCART  371415.9  3769294.9  56.3
RE DISCCART  371440.9  3769294.9  55.85
RE DISCCART  371465.9  3769294.9  55.6
RE DISCCART  371490.9  3769294.9  55.1
RE DISCCART  371515.9  3769294.9  54.85
RE DISCCART  371540.9  3769294.9  54.45
RE DISCCART  371565.9  3769294.9  54.1
RE DISCCART  371590.9  3769294.9  53.63
RE DISCCART  371615.9  3769294.9  53.4
RE DISCCART  371640.9  3769294.9  52.95
RE DISCCART  371665.9  3769294.9  52.6
RE DISCCART  371690.9  3769294.9  52.23
RE DISCCART  371715.9  3769294.9  51.95
RE DISCCART  371740.9  3769294.9  51.5
RE DISCCART  371765.9  3769294.9  51.25
RE DISCCART  371790.9  3769294.9  50.8
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RE DISCCART  371840.9  3769294.9  50.1
RE DISCCART  371865.9  3769294.9  49.9
RE DISCCART  371890.9  3769294.9  49.47
RE DISCCART  371915.9  3769294.9  49.2
RE DISCCART  371940.9  3769294.9  48.8
RE DISCCART  371965.9  3769294.9  48.45
RE DISCCART  371990.9  3769294.9  47.95
RE DISCCART  372015.9  3769294.9  47.6
RE DISCCART  372040.9  3769294.9  47.1
RE DISCCART  372065.9  3769294.9  46.83
RE DISCCART  372090.9  3769294.9  46.38
RE DISCCART  372115.9  3769294.9  46.1
RE DISCCART  372140.9  3769294.9  45.63
RE DISCCART  372165.9  3769294.9  45.45
RE DISCCART  372190.9  3769294.9  45.03
RE DISCCART  372215.9  3769294.9  44.8
RE DISCCART  372240.9  3769294.9  44.38
RE DISCCART  372265.9  3769294.9  44.1
RE DISCCART  372290.9  3769294.9  43.73
RE DISCCART  372315.9  3769294.9  43.55
RE DISCCART  372340.9  3769294.9  43.23
RE DISCCART  372365.9  3769294.9  43.05
RE DISCCART  371340.9  3769319.9  57.25
RE DISCCART  371365.9  3769319.9  57.08
RE DISCCART  371390.9  3769319.9  56.53
RE DISCCART  371415.9  3769319.9  56.31
RE DISCCART  371440.9  3769319.9  55.92
RE DISCCART  371465.9  3769319.9  55.61
RE DISCCART  371490.9  3769319.9  55.2
RE DISCCART  371515.9  3769319.9  54.96
RE DISCCART  371540.9  3769319.9  54.42
RE DISCCART  371565.9  3769319.9  54.11
RE DISCCART  371590.9  3769319.9  53.7
RE DISCCART  371615.9  3769319.9  53.46
RE DISCCART  371640.9  3769319.9  52.92
RE DISCCART  371665.9  3769319.9  52.7
RE DISCCART  371690.9  3769319.9  52.23
RE DISCCART  371715.9  3769319.9  51.97
RE DISCCART  371740.9  3769319.9  51.53
RE DISCCART  371765.9  3769319.9  51.31
RE DISCCART  371790.9  3769319.9  50.75
RE DISCCART  371815.9  3769319.9  50.61
RE DISCCART  371840.9  3769319.9  50.2
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RE DISCCART  371865.9  3769319.9  49.96
RE DISCCART  371890.9  3769319.9  49.5
RE DISCCART  371915.9  3769319.9  49.2
RE DISCCART  371940.9  3769319.9  48.73
RE DISCCART  371965.9  3769319.9  48.46
RE DISCCART  371990.9  3769319.9  47.92
RE DISCCART  372015.9  3769319.9  47.61
RE DISCCART  372040.9  3769319.9  47.04

RE DISCCART  372065.9  3769319.9  46.9
RE DISCCART  372090.9  3769319.9  46.42
RE DISCCART  372115.9  3769319.9  46.14
RE DISCCART  372140.9  3769319.9  45.73
RE DISCCART  372165.9  3769319.9  45.5
RE DISCCART  372190.9  3769319.9  45.03
RE DISCCART  372215.9  3769319.9  44.85
RE DISCCART  372240.9  3769319.9  44.42
RE DISCCART  372265.9  3769319.9  44.2
RE DISCCART  372290.9  3769319.9  43.73
RE DISCCART  372315.9  3769319.9  43.61
RE DISCCART  372340.9  3769319.9  43.23
RE DISCCART  372365.9  3769319.9  43.11
RE DISCCART  371340.9  3769344.9  57.35
RE DISCCART  371365.9  3769344.9  57.1
RE DISCCART  371390.9  3769344.9  56.6
RE DISCCART  371415.9  3769344.9  56.35
RE DISCCART  371440.9  3769344.9  55.95
RE DISCCART  371465.9  3769344.9  55.6
RE DISCCART  371490.9  3769344.9  55.3
RE DISCCART  371515.9  3769344.9  54.95
RE DISCCART  371540.9  3769344.9  54.5
RE DISCCART  371565.9  3769344.9  54.2
RE DISCCART  371590.9  3769344.9  53.8
RE DISCCART  371615.9  3769344.9  53.45
RE DISCCART  371640.9  3769344.9  53
RE DISCCART  371665.9  3769344.9  52.75
RE DISCCART  371690.9  3769344.9  52.3
RE DISCCART  371715.9  3769344.9  52.05
RE DISCCART  371740.9  3769344.9  51.6
RE DISCCART  371765.9  3769344.9  51.35
RE DISCCART  371790.9  3769344.9  50.95
RE DISCCART  371815.9  3769344.9  50.6
RE DISCCART  371840.9  3769344.9  50.2
RE DISCCART  371865.9  3769344.9  49.95
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RE DISCCART  371890.9  3769344.9  49.5
RE DISCCART  371915.9  3769344.9  49.2
RE DISCCART  371940.9  3769344.9  48.8
RE DISCCART  371965.9  3769344.9  48.45
RE DISCCART  371990.9  3769344.9  48
RE DISCCART  372015.9  3769344.9  47.65
RE DISCCART  372040.9  3769344.9  47.23
RE DISCCART  372065.9  3769344.9  46.95
RE DISCCART  372090.9  3769344.9  46.5
RE DISCCART  372115.9  3769344.9  46.3
RE DISCCART  372140.9  3769344.9  45.85
RE DISCCART  372165.9  3769344.9  45.6
RE DISCCART  372190.9  3769344.9  45.2
RE DISCCART  372215.9  3769344.9  44.95
RE DISCCART  372240.9  3769344.9  44.53
RE DISCCART  372265.9  3769344.9  44.3
RE DISCCART  372290.9  3769344.9  43.95
RE DISCCART  372315.9  3769344.9  43.7
RE DISCCART  372340.9  3769344.9  43.38
RE DISCCART  372365.9  3769344.9  43.1
RE DISCCART  371340.9  3769369.9  57.26
RE DISCCART  371365.9  3769369.9  57.11
RE DISCCART  371390.9  3769369.9  56.53
RE DISCCART  371415.9  3769369.9  56.37
RE DISCCART  371440.9  3769369.9  55.92
RE DISCCART  371465.9  3769369.9  55.61
RE DISCCART  371490.9  3769369.9  55.23
RE DISCCART  371515.9  3769369.9  54.96
RE DISCCART  371540.9  3769369.9  54.5
RE DISCCART  371565.9  3769369.9  54.2
RE DISCCART  371590.9  3769369.9  53.73
RE DISCCART  371615.9  3769369.9  53.47
RE DISCCART  371640.9  3769369.9  53.03
RE DISCCART  371665.9  3769369.9  52.81
RE DISCCART  371690.9  3769369.9  52.25
RE DISCCART  371715.9  3769369.9  52.11
RE DISCCART  371740.9  3769369.9  51.54
RE DISCCART  371765.9  3769369.9  51.46
RE DISCCART  371790.9  3769369.9  50.92
** RCPDESCR  Elev 30ft
RE DISCCART  371815.9  3769369.9  50.64
RE DISCCART  371840.9  3769369.9  50.23
RE DISCCART  371865.9  3769369.9  49.96
RE DISCCART  371890.9  3769369.9  49.52
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RE DISCCART  371915.9  3769369.9  49.31
RE DISCCART  371940.9  3769369.9  48.73
RE DISCCART  371965.9  3769369.9  48.5
RE DISCCART  371990.9  3769369.9  48
RE DISCCART  372015.9  3769369.9  47.7
RE DISCCART  372040.9  3769369.9  47.23
RE DISCCART  372065.9  3769369.9  46.96
** RCPDESCR  Elev 30ft
RE DISCCART  372090.9  3769369.9  46.53
** RCPDESCR  Elev 30ft
RE DISCCART  372115.9  3769369.9  46.31
RE DISCCART  372140.9  3769369.9  45.92
RE DISCCART  372165.9  3769369.9  45.61
RE DISCCART  372190.9  3769369.9  45.22
RE DISCCART  372215.9  3769369.9  45
RE DISCCART  372240.9  3769369.9  44.53
RE DISCCART  372265.9  3769369.9  44.38
RE DISCCART  372290.9  3769369.9  43.92
RE DISCCART  372315.9  3769369.9  43.78
RE DISCCART  372340.9  3769369.9  43.42
RE DISCCART  372365.9  3769369.9  43.2
RE DISCCART  371340.9  3769394.9  57.45
RE DISCCART  371365.9  3769394.9  57.1
RE DISCCART  371390.9  3769394.9  56.7
RE DISCCART  371415.9  3769394.9  56.45
RE DISCCART  371440.9  3769394.9  55.95
RE DISCCART  371465.9  3769394.9  55.6
RE DISCCART  371490.9  3769394.9  55.2
RE DISCCART  371515.9  3769394.9  54.89
RE DISCCART  371540.9  3769394.9  54.48
RE DISCCART  371565.9  3769394.9  54.2
RE DISCCART  371590.9  3769394.9  53.8
RE DISCCART  371615.9  3769394.9  53.5
RE DISCCART  371640.9  3769394.9  53.1
RE DISCCART  371665.9  3769394.9  52.83
RE DISCCART  371690.9  3769394.9  52.45
RE DISCCART  371715.9  3769394.9  52.15
RE DISCCART  371740.9  3769394.9  51.73
RE DISCCART  371765.9  3769394.9  51.45
RE DISCCART  371790.9  3769394.9  51
RE DISCCART  371815.9  3769394.9  50.75
RE DISCCART  371840.9  3769394.9  50.3
RE DISCCART  371865.9  3769394.9  50
RE DISCCART  371890.9  3769394.9  49.6
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RE DISCCART  371915.9  3769394.9  49.3
RE DISCCART  371940.9  3769394.9  48.8
RE DISCCART  371965.9  3769394.9  48.5
RE DISCCART  371990.9  3769394.9  48.1
RE DISCCART  372015.9  3769394.9  47.8
RE DISCCART  372040.9  3769394.9  47.3
RE DISCCART  372065.9  3769394.9  47
RE DISCCART  372090.9  3769394.9  46.6
RE DISCCART  372115.9  3769394.9  46.3
RE DISCCART  372140.9  3769394.9  45.95
RE DISCCART  372165.9  3769394.9  45.6
RE DISCCART  372190.9  3769394.9  45.3
RE DISCCART  372215.9  3769394.9  45.05
RE DISCCART  372240.9  3769394.9  44.7
RE DISCCART  372265.9  3769394.9  44.45
RE DISCCART  372290.9  3769394.9  44.1
RE DISCCART  372315.9  3769394.9  43.88
RE DISCCART  372340.9  3769394.9  43.5
RE DISCCART  372365.9  3769394.9  43.3
RE DISCCART  371340.9  3769419.9  57.42
RE DISCCART  371365.9  3769419.9  57.11
RE DISCCART  371390.9  3769419.9  56.7
RE DISCCART  371415.9  3769419.9  56.46
RE DISCCART  371440.9  3769419.9  55.92
RE DISCCART  371465.9  3769419.9  55.61
RE DISCCART  371490.9  3769419.9  55.2
RE DISCCART  371515.9  3769419.9  54.87
RE DISCCART  371540.9  3769419.9  54.42
RE DISCCART  371565.9  3769419.9  54.2
RE DISCCART  371590.9  3769419.9  53.73
RE DISCCART  371615.9  3769419.9  53.58
RE DISCCART  371640.9  3769419.9  53.03
RE DISCCART  371665.9  3769419.9  52.9
RE DISCCART  371690.9  3769419.9  52.5
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 ** TERRFILE  C:\DOCUME~1\CKELLY\MYDOCU~1\BREITB~1\DEM\BEVHILLS.DEM 2 4 1 11 10 361469 3762976 361672 3776837 373201
3776675 373014 3762814
 ** HILLBOUN  370775.8 3768252.9 373096.4 3769866.5

 ** BUILDING BLD  0  0  50  13.7  15
 ** BUILDING IDN  SUPBLD
 ** BUILDING NAM  Support Building
 ** BUILDING CRN  371787.19  3769008.15
 ** BUILDING CRN  371742.36  3769008.94
 ** BUILDING CRN  371736.47  3769009.05
 ** BUILDING CRN  371736.3  3768999.06
 ** BUILDING CRN  371736.24  3768995.73
 ** BUILDING CRN  371742.12  3768995.62
 ** BUILDING CRN  371742.18  3768998.95
 ** BUILDING CRN  371787.02  3768998.16
 ** BUILDING CRN  371787.0  3768997.17
 ** BUILDING CRN  371791.22  3768997.09
 ** BUILDING CRN  371794.39  3768994.48
 ** BUILDING CRN  371794.44  3768997.03
```

```
 ** BUILDING CRN  371794.46  3768998.03
 ** BUILDING CRN  371794.63  3769008.02
 ** BUILDING CRN  371787.19  3769008.15
 ** BUILDING BLD  0  0  50  6.1  7
 ** BUILDING IDN  MHBLD
 ** BUILDING NAM  Mud House
 ** BUILDING CRN  371791.22  3768997.09
 ** BUILDING CRN  371790.96  3768982.44
 ** BUILDING CRN  371785.19  3768982.54
 ** BUILDING CRN  371785.09  3768976.99
 ** BUILDING CRN  371792.71  3768976.83
 ** BUILDING CRN  371792.92  3768995.7
 ** BUILDING CRN  371791.22  3768997.09
 ** BUILDING BLD  0  0  50  39  5
 ** BUILDING IDN  Tower
 ** BUILDING NAM  Drilling Tower
 ** BUILDING CRN  371768.4  3768981.6
 ** BUILDING CRN  371758.3  3768981.78
 ** BUILDING CRN  371758.48  3768991.76
 ** BUILDING CRN  371768.58  3768991.59
 ** BUILDING CRN  371768.4  3768981.6
 ** BUILDING BLD  0  0  51  7.62  12
 ** BUILDING IDN  BLD1
 ** BUILDING NAM  Outer Wall
 ** BUILDING CRN  371737.6  3768995.73
 ** BUILDING CRN  371737.5  3768978.3
 ** BUILDING CRN  371739.0  3768976.61
 ** BUILDING CRN  371790.79  3768975.6
 ** BUILDING CRN  371792.71  3768976.83
 ** BUILDING CRN  371792.92  3768995.7
 ** BUILDING CRN  371794.3  3768994.6
 ** BUILDING CRN  371794.09  3768976.83
 ** BUILDING CRN  371791.46  3768974.11
 ** BUILDING CRN  371738.65  3768975.04
 ** BUILDING CRN  371735.92  3768977.86
 ** BUILDING CRN  371736.18  3768995.73

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************
```

***

```
 **Model Set To Continue RUNning After the Setup Testing.

 **Output Options Selected:
         Model Outputs Tables of ANNUAL Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and Missing Hours

 **Misc. Inputs:  Anem. Hgt. (m) =    10.00 ;    Decay Coef. =       0.0000 ;    Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC                                ;  Emission Rate Unit Factor =
0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =     1.3 MB of RAM.

 **Input Runstream File:          B:\AIR MODELING\HHRA\9195_CELLARS.DAT
 **Output Print File:             B:\AIR MODELING\HHRA\9195_CELLARS.LST
 **Detailed Error/Message File:   C:\DOCUMENTS AND SETTINGS\CKELLY\MY DOCUMENTS\BREIT BURN\MODELING\9195_ISC_POINT
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                                  ***
07/07/05
                                    ***                                                                       ***
13:26:49
 **MODELOPTs:
PAGE   2
 CONC                    URBAN ELEV                        NOSTD
HE>ZI



                                              *** POINT SOURCE DATA ***


             NUMBER EMISSION RATE                    BASE     STACK   STACK    STACK     STACK    BUILDING EMISSION
RATE
    SOURCE     PART.  (GRAMS/SEC)     X        Y      ELEV.    HEIGHT  TEMP.   EXIT VEL. DIAMETER   EXISTS   SCALAR
VARY
      ID       CATS.               (METERS) (METERS) (METERS) (METERS) (DEG.K)  (M/SEC)  (METERS)               BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- -

   SRC4          0   0.10000E+01  371756.6 3768989.8    50.0     7.62   293.00     0.10     8.30      YES
```

```
   SRC3          0   0.10000E+01  371747.8 3768990.0    50.0     7.62   293.00     0.10     8.30      YES
   SRC5          0   0.10000E+01  371770.5 3768989.5    50.0     7.62   293.00     0.10     8.30      YES
   SRC6          0   0.10000E+01  371779.1 3768989.5    50.0     7.62   293.00     0.10     8.30      YES
   SRC7          0   0.10000E+01  371755.4 3768981.5    50.0     7.62   293.00     0.10     8.20      YES
   SRC8          0   0.10000E+01  371777.8 3768981.2    50.0     7.62   293.00     0.10     8.20      YES
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                              ***
07/07/05
                                    ***                                                                   ***
13:26:49
 **MODELOPTs:
PAGE   3
 CONC                    URBAN ELEV                        NOSTD
HE>ZI



                                        *** SOURCE IDs DEFINING SOURCE GROUPS ***

 GROUP ID                                                  SOURCE IDs



  ALL       SRC4    , SRC3    , SRC5    , SRC6    , SRC7    , SRC8    ,
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                              ***
07/07/05
                                    ***                                                                   ***
13:26:49
 **MODELOPTs:
PAGE   4
 CONC                    URBAN ELEV                        NOSTD
HE>ZI

                                        *** DIRECTION SPECIFIC BUILDING DIMENSIONS ***


 SOURCE ID: SRC4
  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV
BH     BW  WAK
    1  39.0,  11.5, 0     2  39.0,  12.8, 0     3  39.0,  13.7, 0     4  39.0,  14.1, 0     5  39.0,  14.2, 0     6
39.0,  13.8, 0
    7  39.0,  12.9, 0     8  39.0,  11.7, 0     9  39.0,  10.2, 0    10  39.0,  11.4, 0    11  39.0,  12.7, 0    12
39.0,  13.6, 0
   13  39.0,  14.1, 0    14  39.0,  14.2, 0    15  39.0,  13.8, 0    16  39.0,  13.0, 0    17  39.0,  11.8, 0    18
39.0,  10.3, 0
```

19 39.0, 11.5, 0 20 39.0, 12.8, 0 21 39.0, 13.7, 0 22 39.0, 14.1, 0 23 39.0, 14.2, 0 24 39.0, 13.8, 0
25 39.0, 12.9, 0 26 39.0, 11.7, 0 27 39.0, 10.2, 0 28 39.0, 11.4, 0 29 39.0, 12.7, 0 30 39.0, 13.6, 0
31 39.0, 14.1, 0 32 39.0, 14.2, 0 33 39.0, 13.8, 0 34 39.0, 13.0, 0 35 39.0, 11.8, 0 36 39.0, 10.3, 0

SOURCE ID: SRC3

IFV BH BW WAK IFV BH BW WAK IFV BH BW WAK IFV BH BW WAK IFV BH BW WAK IFV BH BW WAK
1 13.7, 59.6, 0 2 13.7, 59.4, 0 3 13.7, 57.5, 0 4 39.0, 14.1, 0 5 39.0, 14.1, 0 6 39.0, 13.8, 0
7 39.0, 12.9, 0 8 39.0, 11.7, 0 9 39.0, 10.2, 0 10 39.0, 11.4, 0 11 39.0, 12.7, 0 12 39.0, 13.6, 0
13 39.0, 14.1, 0 14 39.0, 14.1, 0 15 39.0, 13.8, 0 16 13.7, 59.1, 0 17 13.7, 59.6, 0 18 13.7, 58.4, 0
19 13.7, 59.6, 0 20 13.7, 59.4, 0 21 13.7, 57.5, 0 22 39.0, 14.1, 0 23 39.0, 14.1, 0 24 39.0, 13.8, 0
25 39.0, 12.9, 0 26 39.0, 11.7, 0 27 39.0, 10.2, 0 28 39.0, 11.4, 0 29 39.0, 12.7, 0 30 39.0, 13.6, 0
31 39.0, 14.1, 0 32 39.0, 14.1, 0 33 39.0, 13.8, 0 34 13.7, 59.1, 0 35 13.7, 59.6, 0 36 13.7, 58.4, 0

SOURCE ID: SRC5

IFV BH BW WAK IFV BH BW WAK IFV BH BW WAK IFV BH BW WAK IFV BH BW WAK IFV BH BW WAK
1 39.0, 11.5, 0 2 39.0, 12.8, 0 3 39.0, 13.7, 0 4 39.0, 14.1, 0 5 39.0, 14.2, 0 6 39.0, 13.8, 0
7 39.0, 12.9, 0 8 39.0, 11.7, 0 9 39.0, 10.2, 0 10 39.0, 11.4, 0 11 39.0, 12.7, 0 12 39.0, 13.6, 0
13 39.0, 14.1, 0 14 39.0, 14.2, 0 15 39.0, 13.8, 0 16 39.0, 13.0, 0 17 39.0, 11.8, 0 18 39.0, 10.3, 0
19 39.0, 11.5, 0 20 39.0, 12.8, 0 21 39.0, 13.7, 0 22 39.0, 14.1, 0 23 39.0, 14.2, 0 24 39.0, 13.8, 0
25 39.0, 12.9, 0 26 39.0, 11.7, 0 27 39.0, 10.2, 0 28 39.0, 11.4, 0 29 39.0, 12.7, 0 30 39.0, 13.6, 0
31 39.0, 14.1, 0 32 39.0, 14.2, 0 33 39.0, 13.8, 0 34 39.0, 13.0, 0 35 39.0, 11.8, 0 36 39.0, 10.3, 0

```
 SOURCE ID: SRC6
  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV
BH     BW  WAK
    1  13.7,  59.6, 0     2  13.7,  59.4, 0     3  39.0,  13.7, 0     4  39.0,  14.1, 0     5  39.0,  14.1, 0     6
39.0,  13.8, 0
    7  39.0,  12.9, 0     8  39.0,  11.7, 0     9  39.0,  10.2, 0    10  39.0,  11.4, 0    11  39.0,  12.7, 0    12
39.0,  13.6, 0
   13  39.0,  14.1, 0    14  39.0,  14.1, 0    15  13.7,  56.7, 0    16  13.7,  59.1, 0    17  13.7,  59.6, 0    18
13.7,  58.4, 0
   19  13.7,  59.6, 0    20  13.7,  59.4, 0    21  39.0,  13.7, 0    22  39.0,  14.1, 0    23  39.0,  14.1, 0    24
39.0,  13.8, 0
   25  39.0,  12.9, 0    26  39.0,  11.7, 0    27  39.0,  10.2, 0    28  39.0,  11.4, 0    29  39.0,  12.7, 0    30
39.0,  13.6, 0
   31  39.0,  14.1, 0    32  39.0,  14.1, 0    33  13.7,  56.7, 0    34  13.7,  59.1, 0    35  13.7,  59.6, 0    36
13.7,  58.4, 0


1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                                  ***
07/07/05
                                    ***                                                                       ***
13:26:49
 **MODELOPTs:
PAGE   5
 CONC                    URBAN ELEV                        NOSTD
HE>ZI

                                        *** DIRECTION SPECIFIC BUILDING DIMENSIONS ***


 SOURCE ID: SRC7
  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV
BH     BW  WAK
    1  39.0,  11.5, 0     2  39.0,  12.8, 0     3  39.0,  13.7, 0     4  39.0,  14.1, 0     5  39.0,  14.2, 0     6
39.0,  13.8, 0
    7  39.0,  12.9, 0     8  39.0,  11.7, 0     9  39.0,  10.2, 0    10  39.0,  11.4, 0    11  39.0,  12.7, 0    12
39.0,  13.6, 0
   13  39.0,  14.1, 0    14  39.0,  14.2, 0    15  39.0,  13.8, 0    16  39.0,  13.0, 0    17  39.0,  11.8, 0    18
39.0,  10.3, 0
   19  39.0,  11.5, 0    20  39.0,  12.8, 0    21  39.0,  13.7, 0    22  39.0,  14.1, 0    23  39.0,  14.2, 0    24
39.0,  13.8, 0
   25  39.0,  12.9, 0    26  39.0,  11.7, 0    27  39.0,  10.2, 0    28  39.0,  11.4, 0    29  39.0,  12.7, 0    30
39.0,  13.6, 0
```

```
   31  39.0,  14.1, 0    32  39.0,  14.2, 0    33  39.0,  13.8, 0    34  39.0,  13.0, 0    35  39.0,  11.8, 0    36
39.0,  10.3, 0


 SOURCE ID: SRC8
  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV
BH     BW  WAK
    1  13.7,  59.6, 0     2  13.7,  59.4, 0     3  13.7,  57.5, 0     4  13.7,  53.7, 0     5  39.0,  14.2, 0     6
39.0,  13.8, 0
    7  39.0,  12.9, 0     8  39.0,  11.7, 0     9  39.0,  10.2, 0    10  39.0,  11.4, 0    11  39.0,  12.7, 0    12
39.0,  13.6, 0
   13  39.0,  14.1, 0    14  39.0,  14.2, 0    15  39.0,  13.8, 0    16  39.0,  13.0, 0    17  13.7,  59.6, 0    18
13.7,  58.4, 0
   19  13.7,  59.6, 0    20  13.7,  59.4, 0    21  13.7,  57.5, 0    22  13.7,  53.7, 0    23  39.0,  14.2, 0    24
39.0,  13.8, 0
   25  39.0,  12.9, 0    26  39.0,  11.7, 0    27  39.0,  10.2, 0    28  39.0,  11.4, 0    29  39.0,  12.7, 0    30
39.0,  13.6, 0
   31  39.0,  14.1, 0    32  39.0,  14.2, 0    33  39.0,  13.8, 0    34  39.0,  13.0, 0    35  13.7,  59.6, 0    36
13.7,  58.4, 0


1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                                    ***
07/07/05
                                    ***                                                                         ***
13:26:49
 **MODELOPTs:
PAGE   6
 CONC                    URBAN ELEV                      NOSTD
HE>ZI


                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                          (X-COORD, Y-COORD, ZELEV, ZFLAG)
                                                    (METERS)

     ( 371340.9, 3768570.0,      60.5,       0.0);          ( 371365.9, 3768570.0,      59.5,       0.0);

     ( 371390.9, 3768570.0,      57.3,       0.0);          ( 371415.9, 3768570.0,      56.5,       0.0);
     ( 371440.9, 3768570.0,      55.1,       0.0);          ( 371465.9, 3768570.0,      54.6,       0.0);
     ( 371490.9, 3768570.0,      54.2,       0.0);          ( 371515.9, 3768570.0,      54.0,       0.0);
     ( 371540.9, 3768570.0,      53.4,       0.0);          ( 371565.9, 3768570.0,      53.2,       0.0);
     ( 371590.9, 3768570.0,      52.5,       0.0);          ( 371615.9, 3768570.0,      52.3,       0.0);
     ( 371640.9, 3768570.0,      51.7,       0.0);          ( 371665.9, 3768570.0,      51.6,       0.0);
```

```
    ( 371690.9, 3768570.0,      51.0,       0.0);          ( 371715.9, 3768570.0,      50.8,       0.0);
    ( 371740.9, 3768570.0,      50.4,       0.0);          ( 371765.9, 3768570.0,      50.1,       0.0);
    ( 371790.9, 3768570.0,      49.7,       0.0);          ( 371815.9, 3768570.0,      49.6,       0.0);
    ( 371840.9, 3768570.0,      49.2,       0.0);          ( 371865.9, 3768570.0,      49.0,       0.0);
    ( 371890.9, 3768570.0,      48.4,       0.0);          ( 371915.9, 3768570.0,      48.1,       0.0);
    ( 371940.9, 3768570.0,      47.2,       0.0);          ( 371965.9, 3768570.0,      46.9,       0.0);
    ( 371990.9, 3768570.0,      46.0,       0.0);          ( 372015.9, 3768570.0,      45.7,       0.0);
    ( 372040.9, 3768570.0,      45.0,       0.0);          ( 372065.9, 3768570.0,      44.8,       0.0);
    ( 372090.9, 3768570.0,      44.2,       0.0);          ( 372115.9, 3768570.0,      43.9,       0.0);
    ( 372140.9, 3768570.0,      43.2,       0.0);          ( 372165.9, 3768570.0,      42.9,       0.0);
    ( 372190.9, 3768570.0,      42.2,       0.0);          ( 372215.9, 3768570.0,      42.0,       0.0);
    ( 372240.9, 3768570.0,      41.4,       0.0);          ( 372265.9, 3768570.0,      41.1,       0.0);
    ( 372290.9, 3768570.0,      40.5,       0.0);          ( 372315.9, 3768570.0,      40.3,       0.0);
    ( 372340.9, 3768570.0,      39.7,       0.0);          ( 372365.9, 3768570.0,      39.5,       0.0);
    ( 371340.9, 3768595.0,      60.1,       0.0);          ( 371365.9, 3768595.0,      58.9,       0.0);
    ( 371390.9, 3768595.0,      57.2,       0.0);          ( 371415.9, 3768595.0,      56.2,       0.0);
    ( 371440.9, 3768595.0,      55.2,       0.0);          ( 371465.9, 3768595.0,      54.6,       0.0);
    ( 371490.9, 3768595.0,      54.2,       0.0);          ( 371515.9, 3768595.0,      53.9,       0.0);
    ( 371540.9, 3768595.0,      53.5,       0.0);          ( 371565.9, 3768595.0,      53.1,       0.0);
    ( 371590.9, 3768595.0,      52.7,       0.0);          ( 371615.9, 3768595.0,      52.4,       0.0);
    ( 371640.9, 3768595.0,      52.0,       0.0);          ( 371665.9, 3768595.0,      51.8,       0.0);
    ( 371690.9, 3768595.0,      51.1,       0.0);          ( 371715.9, 3768595.0,      51.0,       0.0);
    ( 371740.9, 3768595.0,      50.5,       0.0);          ( 371765.9, 3768595.0,      50.3,       0.0);
    ( 371790.9, 3768595.0,      50.0,       0.0);          ( 371815.9, 3768595.0,      49.8,       0.0);
    ( 371840.9, 3768595.0,      49.3,       0.0);          ( 371865.9, 3768595.0,      49.1,       0.0);
    ( 371890.9, 3768595.0,      48.6,       0.0);          ( 371915.9, 3768595.0,      48.3,       0.0);
    ( 371940.9, 3768595.0,      47.6,       0.0);          ( 371965.9, 3768595.0,      47.1,       0.0);
    ( 371990.9, 3768595.0,      46.2,       0.0);          ( 372015.9, 3768595.0,      45.8,       0.0);
    ( 372040.9, 3768595.0,      45.1,       0.0);          ( 372065.9, 3768595.0,      44.9,       0.0);
    ( 372090.9, 3768595.0,      44.4,       0.0);          ( 372115.9, 3768595.0,      44.0,       0.0);
    ( 372140.9, 3768595.0,      43.5,       0.0);          ( 372165.9, 3768595.0,      43.1,       0.0);
    ( 372190.9, 3768595.0,      42.5,       0.0);          ( 372215.9, 3768595.0,      42.2,       0.0);
    ( 372240.9, 3768595.0,      41.6,       0.0);          ( 372265.9, 3768595.0,      41.3,       0.0);
    ( 372290.9, 3768595.0,      40.7,       0.0);          ( 372315.9, 3768595.0,      40.3,       0.0);
    ( 372340.9, 3768595.0,      39.8,       0.0);          ( 372365.9, 3768595.0,      39.5,       0.0);
    ( 371340.9, 3768620.0,      59.6,       0.0);          ( 371365.9, 3768620.0,      58.7,       0.0);
    ( 371390.9, 3768620.0,      56.8,       0.0);          ( 371415.9, 3768620.0,      56.1,       0.0);
    ( 371440.9, 3768620.0,      54.9,       0.0);          ( 371465.9, 3768620.0,      54.6,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05                            ***                                                               ***
13:26:49
 **MODELOPTs:
PAGE   7
```

CONC URBAN ELEV NOSTD
HE>ZI

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(	371490.9,	3768620.0,	54.0, 0.0);	(	371515.9,	3768620.0,	53.8, 0.0);
(	371540.9,	3768620.0,	53.4, 0.0);	(	371565.9,	3768620.0,	53.1, 0.0);
(	371590.9,	3768620.0,	52.7, 0.0);	(	371615.9,	3768620.0,	52.5, 0.0);
(	371640.9,	3768620.0,	52.0, 0.0);	(	371665.9,	3768620.0,	51.6, 0.0);
(	371690.9,	3768620.0,	51.2, 0.0);	(	371715.9,	3768620.0,	51.0, 0.0);
(	371740.9,	3768620.0,	50.5, 0.0);	(	371765.9,	3768620.0,	50.4, 0.0);
(	371790.9,	3768620.0,	50.0, 0.0);	(	371815.9,	3768620.0,	49.8, 0.0);
(	371840.9,	3768620.0,	49.4, 0.0);	(	371865.9,	3768620.0,	49.1, 0.0);
(	371890.9,	3768620.0,	48.7, 0.0);	(	371915.9,	3768620.0,	48.4, 0.0);
(	371940.9,	3768620.0,	47.5, 0.0);	(	371965.9,	3768620.0,	47.1, 0.0);
(	371990.9,	3768620.0,	46.2, 0.0);	(	372015.9,	3768620.0,	45.8, 0.0);
(	372040.9,	3768620.0,	45.2, 0.0);	(	372065.9,	3768620.0,	45.1, 0.0);
(	372090.9,	3768620.0,	44.5, 0.0);	(	372115.9,	3768620.0,	44.1, 0.0);
(	372140.9,	3768620.0,	43.5, 0.0);	(	372165.9,	3768620.0,	43.2, 0.0);
(	372190.9,	3768620.0,	42.5, 0.0);	(	372215.9,	3768620.0,	42.3, 0.0);
(	372240.9,	3768620.0,	41.7, 0.0);	(	372265.9,	3768620.0,	41.4, 0.0);
(	372290.9,	3768620.0,	40.7, 0.0);	(	372315.9,	3768620.0,	40.5, 0.0);
(	372340.9,	3768620.0,	39.9, 0.0);	(	372365.9,	3768620.0,	39.6, 0.0);
(	371340.9,	3768645.0,	59.2, 0.0);	(	371365.9,	3768645.0,	58.3, 0.0);
(	371390.9,	3768645.0,	56.8, 0.0);	(	371415.9,	3768645.0,	55.8, 0.0);
(	371440.9,	3768645.0,	54.8, 0.0);	(	371465.9,	3768645.0,	54.5, 0.0);
(	371490.9,	3768645.0,	54.1, 0.0);	(	371515.9,	3768645.0,	53.8, 0.0);
(	371540.9,	3768645.0,	53.5, 0.0);	(	371565.9,	3768645.0,	53.2, 0.0);
(	371590.9,	3768645.0,	52.8, 0.0);	(	371615.9,	3768645.0,	52.6, 0.0);
(	371640.9,	3768645.0,	52.0, 0.0);	(	371665.9,	3768645.0,	51.7, 0.0);
(	371690.9,	3768645.0,	51.3, 0.0);	(	371715.9,	3768645.0,	51.1, 0.0);
(	371740.9,	3768645.0,	50.7, 0.0);	(	371765.9,	3768645.0,	50.5, 0.0);
(	371790.9,	3768645.0,	50.1, 0.0);	(	371815.9,	3768645.0,	49.9, 0.0);
(	371840.9,	3768645.0,	49.5, 0.0);	(	371865.9,	3768645.0,	49.2, 0.0);
(	371890.9,	3768645.0,	48.8, 0.0);	(	371915.9,	3768645.0,	48.5, 0.0);
(	371940.9,	3768645.0,	47.8, 0.0);	(	371965.9,	3768645.0,	47.4, 0.0);
(	371990.9,	3768645.0,	46.6, 0.0);	(	372015.9,	3768645.0,	46.2, 0.0);
(	372040.9,	3768645.0,	45.8, 0.0);	(	372065.9,	3768645.0,	45.3, 0.0);
(	372090.9,	3768645.0,	44.7, 0.0);	(	372115.9,	3768645.0,	44.3, 0.0);
(	372140.9,	3768645.0,	43.8, 0.0);	(	372165.9,	3768645.0,	43.3, 0.0);
(	372190.9,	3768645.0,	42.8, 0.0);	(	372215.9,	3768645.0,	42.5, 0.0);

```
    ( 372240.9, 3768645.0,      41.9,       0.0);          ( 372265.9, 3768645.0,      41.6,       0.0);
    ( 372290.9, 3768645.0,      41.0,       0.0);          ( 372315.9, 3768645.0,      40.6,       0.0);
    ( 372340.9, 3768645.0,      40.1,       0.0);          ( 372365.9, 3768645.0,      39.8,       0.0);
    ( 371340.9, 3768670.0,      58.7,       0.0);          ( 371365.9, 3768670.0,      58.1,       0.0);
    ( 371390.9, 3768670.0,      56.6,       0.0);          ( 371415.9, 3768670.0,      55.9,       0.0);
    ( 371440.9, 3768670.0,      54.8,       0.0);          ( 371465.9, 3768670.0,      54.6,       0.0);
    ( 371490.9, 3768670.0,      54.0,       0.0);          ( 371515.9, 3768670.0,      54.0,       0.0);
    ( 371540.9, 3768670.0,      53.5,       0.0);          ( 371565.9, 3768670.0,      53.3,       0.0);
    ( 371590.9, 3768670.0,      52.9,       0.0);          ( 371615.9, 3768670.0,      52.5,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                              ***
07/07/05
                                    ***                                                                   ***
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 **MODELOPTs:
PAGE   8
 CONC                    URBAN ELEV                      NOSTD
HE>ZI


                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                    (X-COORD, Y-COORD, ZELEV, ZFLAG)
                                             (METERS)

    ( 371640.9, 3768670.0,      52.0,       0.0);          ( 371665.9, 3768670.0,      51.8,       0.0);
    ( 371690.9, 3768670.0,      51.4,       0.0);          ( 371715.9, 3768670.0,      51.2,       0.0);
    ( 371740.9, 3768670.0,      50.7,       0.0);          ( 371765.9, 3768670.0,      50.5,       0.0);
    ( 371790.9, 3768670.0,      50.0,       0.0);          ( 371815.9, 3768670.0,      50.0,       0.0);
    ( 371840.9, 3768670.0,      49.5,       0.0);          ( 371865.9, 3768670.0,      49.3,       0.0);
    ( 371890.9, 3768670.0,      48.8,       0.0);          ( 371915.9, 3768670.0,      48.6,       0.0);
    ( 371940.9, 3768670.0,      47.9,       0.0);          ( 371965.9, 3768670.0,      47.6,       0.0);
    ( 371990.9, 3768670.0,      46.7,       0.0);          ( 372015.9, 3768670.0,      46.4,       0.0);
    ( 372040.9, 3768670.0,      45.7,       0.0);          ( 372065.9, 3768670.0,      45.4,       0.0);
    ( 372090.9, 3768670.0,      44.8,       0.0);          ( 372115.9, 3768670.0,      44.4,       0.0);
    ( 372140.9, 3768670.0,      43.8,       0.0);          ( 372165.9, 3768670.0,      43.5,       0.0);
    ( 372190.9, 3768670.0,      42.8,       0.0);          ( 372215.9, 3768670.0,      42.6,       0.0);
    ( 372240.9, 3768670.0,      42.0,       0.0);          ( 372265.9, 3768670.0,      41.7,       0.0);
    ( 372290.9, 3768670.0,      41.0,       0.0);          ( 372315.9, 3768670.0,      40.8,       0.0);
    ( 372340.9, 3768670.0,      40.2,       0.0);          ( 372365.9, 3768670.0,      40.0,       0.0);
    ( 371340.9, 3768695.0,      58.5,       0.0);          ( 371365.9, 3768695.0,      57.7,       0.0);
    ( 371390.9, 3768695.0,      56.6,       0.0);          ( 371415.9, 3768695.0,      56.0,       0.0);
    ( 371440.9, 3768695.0,      55.2,       0.0);          ( 371465.9, 3768695.0,      54.8,       0.0);
    ( 371490.9, 3768695.0,      54.3,       0.0);          ( 371515.9, 3768695.0,      54.0,       0.0);
    ( 371540.9, 3768695.0,      53.6,       0.0);          ( 371565.9, 3768695.0,      53.3,       0.0);
    ( 371590.9, 3768695.0,      52.8,       0.0);          ( 371615.9, 3768695.0,      52.6,       0.0);
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    ( 371640.9, 3768695.0,      52.1,       0.0);         ( 371665.9, 3768695.0,      51.8,       0.0);
    ( 371690.9, 3768695.0,      51.5,       0.0);         ( 371715.9, 3768695.0,      51.1,       0.0);
    ( 371740.9, 3768695.0,      50.8,       0.0);         ( 371765.9, 3768695.0,      50.6,       0.0);
    ( 371790.9, 3768695.0,      50.2,       0.0);         ( 371815.9, 3768695.0,      50.0,       0.0);
    ( 371840.9, 3768695.0,      49.6,       0.0);         ( 371865.9, 3768695.0,      49.4,       0.0);

    ( 371890.9, 3768695.0,      49.0,       0.0);         ( 371915.9, 3768695.0,      48.8,       0.0);
    ( 371940.9, 3768695.0,      48.1,       0.0);         ( 371965.9, 3768695.0,      47.7,       0.0);
    ( 371990.9, 3768695.0,      47.0,       0.0);         ( 372015.9, 3768695.0,      46.6,       0.0);
    ( 372040.9, 3768695.0,      46.0,       0.0);         ( 372065.9, 3768695.0,      45.6,       0.0);
    ( 372090.9, 3768695.0,      45.0,       0.0);         ( 372115.9, 3768695.0,      44.6,       0.0);
    ( 372140.9, 3768695.0,      44.0,       0.0);         ( 372165.9, 3768695.0,      43.6,       0.0);
    ( 372190.9, 3768695.0,      43.1,       0.0);         ( 372215.9, 3768695.0,      42.8,       0.0);
    ( 372240.9, 3768695.0,      42.3,       0.0);         ( 372265.9, 3768695.0,      41.9,       0.0);
    ( 372290.9, 3768695.0,      41.3,       0.0);         ( 372315.9, 3768695.0,      41.0,       0.0);
    ( 372340.9, 3768695.0,      40.5,       0.0);         ( 372365.9, 3768695.0,      40.1,       0.0);
    ( 371340.9, 3768720.0,      58.0,       0.0);         ( 371365.9, 3768720.0,      57.6,       0.0);
    ( 371390.9, 3768720.0,      56.5,       0.0);         ( 371415.9, 3768720.0,      56.1,       0.0);
    ( 371440.9, 3768720.0,      55.2,       0.0);         ( 371465.9, 3768720.0,      54.9,       0.0);
    ( 371490.9, 3768720.0,      54.3,       0.0);         ( 371515.9, 3768720.0,      54.1,       0.0);
    ( 371540.9, 3768720.0,      53.5,       0.0);         ( 371565.9, 3768720.0,      53.3,       0.0);
    ( 371590.9, 3768720.0,      52.8,       0.0);         ( 371615.9, 3768720.0,      52.6,       0.0);
    ( 371640.9, 3768720.0,      52.2,       0.0);         ( 371665.9, 3768720.0,      51.9,       0.0);
    ( 371690.9, 3768720.0,      51.4,       0.0);         ( 371715.9, 3768720.0,      51.2,       0.0);
    ( 371740.9, 3768720.0,      50.7,       0.0);         ( 371765.9, 3768720.0,      50.6,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05
                                    ***                                                               ***
13:26:49
 **MODELOPTs:
PAGE   9
 CONC                    URBAN ELEV                      NOSTD
HE>ZI


                                    *** DISCRETE CARTESIAN RECEPTORS ***
                                      (X-COORD, Y-COORD, ZELEV, ZFLAG)
                                                (METERS)

    ( 371790.9, 3768720.0,      50.2,       0.0);         ( 371815.9, 3768720.0,      50.1,       0.0);
    ( 371840.9, 3768720.0,      49.7,       0.0);         ( 371865.9, 3768720.0,      49.5,       0.0);
    ( 371890.9, 3768720.0,      49.0,       0.0);         ( 371915.9, 3768720.0,      48.8,       0.0);
    ( 371940.9, 3768720.0,      48.1,       0.0);         ( 371965.9, 3768720.0,      47.8,       0.0);
```

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    ( 371990.9, 3768720.0,      47.0,       0.0);         ( 372015.9, 3768720.0,      46.6,       0.0);
    ( 372040.9, 3768720.0,      46.0,       0.0);         ( 372065.9, 3768720.0,      45.6,       0.0);
    ( 372090.9, 3768720.0,      45.0,       0.0);         ( 372115.9, 3768720.0,      44.6,       0.0);
    ( 372140.9, 3768720.0,      44.0,       0.0);         ( 372165.9, 3768720.0,      43.6,       0.0);
    ( 372190.9, 3768720.0,      43.0,       0.0);         ( 372215.9, 3768720.0,      42.9,       0.0);
    ( 372240.9, 3768720.0,      42.2,       0.0);         ( 372265.9, 3768720.0,      42.0,       0.0);
    ( 372290.9, 3768720.0,      41.3,       0.0);         ( 372315.9, 3768720.0,      41.1,       0.0);
    ( 372340.9, 3768720.0,      40.5,       0.0);         ( 372365.9, 3768720.0,      40.3,       0.0);
    ( 371340.9, 3768745.0,      57.8,       0.0);         ( 371365.9, 3768745.0,      57.3,       0.0);
    ( 371390.9, 3768745.0,      56.5,       0.0);         ( 371415.9, 3768745.0,      56.1,       0.0);
    ( 371440.9, 3768745.0,      55.5,       0.0);         ( 371465.9, 3768745.0,      55.0,       0.0);
    ( 371490.9, 3768745.0,      54.5,       0.0);         ( 371515.9, 3768745.0,      54.1,       0.0);
    ( 371540.9, 3768745.0,      53.6,       0.0);         ( 371565.9, 3768745.0,      53.3,       0.0);
    ( 371590.9, 3768745.0,      53.0,       0.0);         ( 371615.9, 3768745.0,      52.6,       0.0);
    ( 371640.9, 3768745.0,      52.1,       0.0);         ( 371665.9, 3768745.0,      52.0,       0.0);
    ( 371690.9, 3768745.0,      51.5,       0.0);         ( 371715.9, 3768745.0,      51.2,       0.0);
    ( 371740.9, 3768745.0,      51.0,       0.0);         ( 371765.9, 3768745.0,      50.7,       0.0);
    ( 371790.9, 3768745.0,      50.3,       0.0);         ( 371815.9, 3768745.0,      50.1,       0.0);
    ( 371840.9, 3768745.0,      49.8,       0.0);         ( 371865.9, 3768745.0,      49.5,       0.0);
    ( 371890.9, 3768745.0,      49.1,       0.0);         ( 371915.9, 3768745.0,      48.8,       0.0);
    ( 371940.9, 3768745.0,      48.3,       0.0);         ( 371965.9, 3768745.0,      47.8,       0.0);
    ( 371990.9, 3768745.0,      47.1,       0.0);         ( 372015.9, 3768745.0,      46.8,       0.0);
    ( 372040.9, 3768745.0,      46.1,       0.0);         ( 372065.9, 3768745.0,      45.8,       0.0);
    ( 372090.9, 3768745.0,      45.1,       0.0);         ( 372115.9, 3768745.0,      44.8,       0.0);
    ( 372140.9, 3768745.0,      44.1,       0.0);         ( 372165.9, 3768745.0,      43.8,       0.0);
    ( 372190.9, 3768745.0,      43.3,       0.0);         ( 372215.9, 3768745.0,      43.0,       0.0);
    ( 372240.9, 3768745.0,      42.5,       0.0);         ( 372265.9, 3768745.0,      42.1,       0.0);
    ( 372290.9, 3768745.0,      41.6,       0.0);         ( 372315.9, 3768745.0,      41.2,       0.0);
    ( 372340.9, 3768745.0,      40.6,       0.0);         ( 372365.9, 3768745.0,      40.4,       0.0);
    ( 371340.9, 3768770.0,      57.5,       0.0);         ( 371365.9, 3768770.0,      57.0,       0.0);
    ( 371390.9, 3768770.0,      56.2,       0.0);         ( 371415.9, 3768770.0,      56.0,       0.0);
    ( 371440.9, 3768770.0,      55.4,       0.0);         ( 371465.9, 3768770.0,      55.0,       0.0);
    ( 371490.9, 3768770.0,      54.4,       0.0);         ( 371515.9, 3768770.0,      54.1,       0.0);
    ( 371540.9, 3768770.0,      53.5,       0.0);         ( 371565.9, 3768770.0,      53.3,       0.0);
    ( 371590.9, 3768770.0,      52.9,       0.0);         ( 371615.9, 3768770.0,      52.6,       0.0);
    ( 371640.9, 3768770.0,      52.2,       0.0);         ( 371665.9, 3768770.0,      52.0,       0.0);
    ( 371690.9, 3768770.0,      51.5,       0.0);         ( 371715.9, 3768770.0,      51.3,       0.0);
    ( 371740.9, 3768770.0,      50.9,       0.0);         ( 371765.9, 3768770.0,      50.7,       0.0);
    ( 371790.9, 3768770.0,      50.4,       0.0);         ( 371815.9, 3768770.0,      50.1,       0.0);
    ( 371840.9, 3768770.0,      49.7,       0.0);         ( 371865.9, 3768770.0,      49.5,       0.0);
    ( 371890.9, 3768770.0,      49.0,       0.0);         ( 371915.9, 3768770.0,      48.9,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(	371940.9,	3768770.0,	48.2,	0.0);	(371965.9,	3768770.0,	47.9,	0.0);
(	371990.9,	3768770.0,	47.0,	0.0);	(372015.9,	3768770.0,	46.8,	0.0);
(	372040.9,	3768770.0,	46.0,	0.0);	(372065.9,	3768770.0,	45.8,	0.0);
(	372090.9,	3768770.0,	45.1,	0.0);	(372115.9,	3768770.0,	44.8,	0.0);
(	372140.9,	3768770.0,	44.0,	0.0);	(372165.9,	3768770.0,	43.8,	0.0);
(	372190.9,	3768770.0,	43.2,	0.0);	(372215.9,	3768770.0,	43.0,	0.0);
(	372240.9,	3768770.0,	42.4,	0.0);	(372265.9,	3768770.0,	42.1,	0.0);
(	372290.9,	3768770.0,	41.5,	0.0);	(372315.9,	3768770.0,	41.3,	0.0);
(	372340.9,	3768770.0,	40.7,	0.0);	(372365.9,	3768770.0,	40.5,	0.0);
(	371340.9,	3768795.0,	57.2,	0.0);	(371365.9,	3768795.0,	56.5,	0.0);
(	371390.9,	3768795.0,	56.0,	0.0);	(371415.9,	3768795.0,	55.6,	0.0);
(	371440.9,	3768795.0,	55.2,	0.0);	(371465.9,	3768795.0,	54.8,	0.0);
(	371490.9,	3768795.0,	54.4,	0.0);	(371515.9,	3768795.0,	54.1,	0.0);
(	371540.9,	3768795.0,	53.6,	0.0);	(371565.9,	3768795.0,	53.3,	0.0);
(	371590.9,	3768795.0,	53.0,	0.0);	(371615.9,	3768795.0,	52.6,	0.0);
(	371640.9,	3768795.0,	52.3,	0.0);	(371665.9,	3768795.0,	52.0,	0.0);
(	371690.9,	3768795.0,	51.6,	0.0);	(371715.9,	3768795.0,	51.3,	0.0);
(	371740.9,	3768795.0,	51.0,	0.0);	(371765.9,	3768795.0,	50.8,	0.0);
(	371790.9,	3768795.0,	50.5,	0.0);	(371815.9,	3768795.0,	50.1,	0.0);
(	371840.9,	3768795.0,	49.8,	0.0);	(371865.9,	3768795.0,	49.5,	0.0);
(	371890.9,	3768795.0,	49.1,	0.0);	(371915.9,	3768795.0,	48.8,	0.0);
(	371940.9,	3768795.0,	48.3,	0.0);	(371965.9,	3768795.0,	47.8,	0.0);
(	371990.9,	3768795.0,	47.2,	0.0);	(372015.9,	3768795.0,	46.8,	0.0);
(	372040.9,	3768795.0,	46.3,	0.0);	(372065.9,	3768795.0,	45.8,	0.0);
(	372090.9,	3768795.0,	45.3,	0.0);	(372115.9,	3768795.0,	44.8,	0.0);
(	372140.9,	3768795.0,	44.3,	0.0);	(372165.9,	3768795.0,	43.8,	0.0);
(	372190.9,	3768795.0,	43.3,	0.0);	(372215.9,	3768795.0,	43.0,	0.0);
(	372240.9,	3768795.0,	42.5,	0.0);	(372265.9,	3768795.0,	42.2,	0.0);
(	372290.9,	3768795.0,	41.7,	0.0);	(372315.9,	3768795.0,	41.4,	0.0);
(	372340.9,	3768795.0,	40.9,	0.0);	(372365.9,	3768795.0,	40.6,	0.0);
(	371340.9,	3768820.0,	56.7,	0.0);	(371365.9,	3768820.0,	56.1,	0.0);
(	371390.9,	3768820.0,	55.5,	0.0);	(371415.9,	3768820.0,	55.3,	0.0);

```
     ( 371440.9, 3768820.0,      54.9,       0.0);          ( 371465.9, 3768820.0,      54.7,       0.0);
     ( 371490.9, 3768820.0,      54.2,       0.0);          ( 371515.9, 3768820.0,      54.0,       0.0);
     ( 371540.9, 3768820.0,      53.5,       0.0);          ( 371565.9, 3768820.0,      53.3,       0.0);
     ( 371590.9, 3768820.0,      52.9,       0.0);          ( 371615.9, 3768820.0,      52.6,       0.0);
     ( 371640.9, 3768820.0,      52.2,       0.0);          ( 371665.9, 3768820.0,      52.0,       0.0);
     ( 371690.9, 3768820.0,      51.5,       0.0);          ( 371715.9, 3768820.0,      51.5,       0.0);
     ( 371740.9, 3768820.0,      51.0,       0.0);          ( 371765.9, 3768820.0,      50.8,       0.0);
     ( 371790.9, 3768820.0,      50.4,       0.0);          ( 371815.9, 3768820.0,      50.1,       0.0);
     ( 371840.9, 3768820.0,      49.7,       0.0);          ( 371865.9, 3768820.0,      49.5,       0.0);
     ( 371890.9, 3768820.0,      49.0,       0.0);          ( 371915.9, 3768820.0,      48.8,       0.0);
     ( 371940.9, 3768820.0,      48.2,       0.0);          ( 371965.9, 3768820.0,      47.9,       0.0);
     ( 371990.9, 3768820.0,      47.2,       0.0);          ( 372015.9, 3768820.0,      46.9,       0.0);
     ( 372040.9, 3768820.0,      46.2,       0.0);          ( 372065.9, 3768820.0,      45.9,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                              ***
07/07/05
                                    ***                                                                   ***
13:26:49
 **MODELOPTs:
PAGE  11
 CONC                    URBAN ELEV                      NOSTD
HE>ZI


                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                    (X-COORD, Y-COORD, ZELEV, ZFLAG)
                                              (METERS)

     ( 372090.9, 3768820.0,      45.2,       0.0);          ( 372115.9, 3768820.0,      44.9,       0.0);
     ( 372140.9, 3768820.0,      44.2,       0.0);          ( 372165.9, 3768820.0,      43.9,       0.0);
     ( 372190.9, 3768820.0,      43.2,       0.0);          ( 372215.9, 3768820.0,      43.0,       0.0);
     ( 372240.9, 3768820.0,      42.5,       0.0);          ( 372265.9, 3768820.0,      42.3,       0.0);
     ( 372290.9, 3768820.0,      41.7,       0.0);          ( 372315.9, 3768820.0,      41.5,       0.0);
     ( 372340.9, 3768820.0,      40.9,       0.0);          ( 372365.9, 3768820.0,      40.6,       0.0);
     ( 371340.9, 3768845.0,      56.5,       0.0);          ( 371365.9, 3768845.0,      55.7,       0.0);
     ( 371390.9, 3768845.0,      54.8,       0.0);          ( 371415.9, 3768845.0,      54.7,       0.0);
     ( 371440.9, 3768845.0,      54.6,       0.0);          ( 371465.9, 3768845.0,      54.4,       0.0);
     ( 371490.9, 3768845.0,      54.1,       0.0);          ( 371515.9, 3768845.0,      54.0,       0.0);
     ( 371540.9, 3768845.0,      53.6,       0.0);          ( 371565.9, 3768845.0,      53.3,       0.0);
     ( 371590.9, 3768845.0,      53.0,       0.0);          ( 371615.9, 3768845.0,      52.7,       0.0);
     ( 371640.9, 3768845.0,      52.2,       0.0);          ( 371665.9, 3768845.0,      52.0,       0.0);
     ( 371690.9, 3768845.0,      51.6,       0.0);          ( 371715.9, 3768845.0,      51.3,       0.0);
     ( 371740.9, 3768845.0,      51.0,       0.0);          ( 371765.9, 3768845.0,      50.7,       0.0);
     ( 371790.9, 3768845.0,      50.3,       0.0);          ( 371815.9, 3768845.0,      50.1,       0.0);
     ( 371840.9, 3768845.0,      49.7,       0.0);          ( 371865.9, 3768845.0,      49.5,       0.0);
```

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    ( 371940.9, 3768845.0,      48.3,       0.0);          ( 371965.9, 3768845.0,      47.8,       0.0);
    ( 371990.9, 3768845.0,      47.2,       0.0);          ( 372015.9, 3768845.0,      46.8,       0.0);
    ( 372040.9, 3768845.0,      46.3,       0.0);          ( 372065.9, 3768845.0,      45.8,       0.0);
    ( 372090.9, 3768845.0,      45.3,       0.0);          ( 372115.9, 3768845.0,      44.8,       0.0);
    ( 372140.9, 3768845.0,      44.3,       0.0);          ( 372165.9, 3768845.0,      43.8,       0.0);
    ( 372190.9, 3768845.0,      43.3,       0.0);          ( 372215.9, 3768845.0,      43.0,       0.0);
    ( 372240.9, 3768845.0,      42.6,       0.0);          ( 372265.9, 3768845.0,      42.3,       0.0);
    ( 372290.9, 3768845.0,      41.8,       0.0);          ( 372315.9, 3768845.0,      41.5,       0.0);
    ( 372340.9, 3768845.0,      41.1,       0.0);          ( 372365.9, 3768845.0,      40.8,       0.0);
    ( 371340.9, 3768870.0,      56.3,       0.0);          ( 371365.9, 3768870.0,      55.7,       0.0);
    ( 371390.9, 3768870.0,      54.7,       0.0);          ( 371415.9, 3768870.0,      54.5,       0.0);
    ( 371440.9, 3768870.0,      54.2,       0.0);          ( 371465.9, 3768870.0,      54.2,       0.0);
    ( 371490.9, 3768870.0,      54.0,       0.0);          ( 371515.9, 3768870.0,      54.0,       0.0);
    ( 371540.9, 3768870.0,      53.5,       0.0);          ( 371565.9, 3768870.0,      53.5,       0.0);
    ( 371590.9, 3768870.0,      53.0,       0.0);          ( 371615.9, 3768870.0,      52.8,       0.0);
    ( 371640.9, 3768870.0,      52.2,       0.0);          ( 371665.9, 3768870.0,      52.1,       0.0);
    ( 371690.9, 3768870.0,      51.5,       0.0);          ( 371715.9, 3768870.0,      51.4,       0.0);
    ( 371740.9, 3768870.0,      51.0,       0.0);          ( 371765.9, 3768870.0,      50.7,       0.0);
    ( 371790.9, 3768870.0,      50.2,       0.0);          ( 371815.9, 3768870.0,      50.1,       0.0);
    ( 371840.9, 3768870.0,      49.7,       0.0);          ( 371865.9, 3768870.0,      49.5,       0.0);
    ( 371890.9, 3768870.0,      49.0,       0.0);          ( 371915.9, 3768870.0,      48.8,       0.0);
    ( 371940.9, 3768870.0,      48.2,       0.0);          ( 371965.9, 3768870.0,      47.9,       0.0);
    ( 371990.9, 3768870.0,      47.0,       0.0);          ( 372015.9, 3768870.0,      46.8,       0.0);
    ( 372040.9, 3768870.0,      46.2,       0.0);          ( 372065.9, 3768870.0,      45.9,       0.0);
    ( 372090.9, 3768870.0,      45.2,       0.0);          ( 372115.9, 3768870.0,      44.9,       0.0);
    ( 372140.9, 3768870.0,      44.2,       0.0);          ( 372165.9, 3768870.0,      43.9,       0.0);
    ( 372190.9, 3768870.0,      43.2,       0.0);          ( 372215.9, 3768870.0,      43.0,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05

                                    ***                                                               ***
13:26:49
 **MODELOPTs:
PAGE  12
 CONC                    URBAN ELEV                      NOSTD
HE>ZI


                                   *** DISCRETE CARTESIAN RECEPTORS ***
                                     (X-COORD, Y-COORD, ZELEV, ZFLAG)
                                                (METERS)

    ( 372240.9, 3768870.0,      42.5,       0.0);          ( 372265.9, 3768870.0,      42.3,       0.0);
```

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( 372290.9, 3768870.0,      41.8,       0.0);         ( 372315.9, 3768870.0,      41.6,       0.0);
( 372340.9, 3768870.0,      41.2,       0.0);         ( 372365.9, 3768870.0,      41.0,       0.0);
( 371340.9, 3768895.0,      56.8,       0.0);         ( 371365.9, 3768895.0,      55.9,       0.0);
( 371390.9, 3768895.0,      54.9,       0.0);         ( 371415.9, 3768895.0,      54.8,       0.0);
( 371440.9, 3768895.0,      54.5,       0.0);         ( 371465.9, 3768895.0,      54.5,       0.0);
( 371490.9, 3768895.0,      54.2,       0.0);         ( 371515.9, 3768895.0,      54.2,       0.0);
( 371540.9, 3768895.0,      53.8,       0.0);         ( 371565.9, 3768895.0,      53.5,       0.0);
( 371590.9, 3768895.0,      53.1,       0.0);         ( 371615.9, 3768895.0,      52.8,       0.0);
( 371640.9, 3768895.0,      52.3,       0.0);         ( 371665.9, 3768895.0,      52.1,       0.0);
( 371690.9, 3768895.0,      51.6,       0.0);         ( 371715.9, 3768895.0,      51.3,       0.0);
( 371740.9, 3768895.0,      51.0,       0.0);         ( 371765.9, 3768895.0,      50.7,       0.0);
( 371790.9, 3768895.0,      50.3,       0.0);         ( 371815.9, 3768895.0,      50.0,       0.0);
( 371840.9, 3768895.0,      49.6,       0.0);         ( 371865.9, 3768895.0,      49.5,       0.0);
( 371890.9, 3768895.0,      49.1,       0.0);         ( 371915.9, 3768895.0,      48.8,       0.0);
( 371940.9, 3768895.0,      48.3,       0.0);         ( 371965.9, 3768895.0,      47.8,       0.0);
( 371990.9, 3768895.0,      47.1,       0.0);         ( 372015.9, 3768895.0,      46.8,       0.0);
( 372040.9, 3768895.0,      46.1,       0.0);         ( 372065.9, 3768895.0,      45.8,       0.0);
( 372090.9, 3768895.0,      45.3,       0.0);         ( 372115.9, 3768895.0,      44.8,       0.0);
( 372140.9, 3768895.0,      44.3,       0.0);         ( 372165.9, 3768895.0,      43.8,       0.0);
( 372190.9, 3768895.0,      43.3,       0.0);         ( 372215.9, 3768895.0,      43.0,       0.0);
( 372240.9, 3768895.0,      42.5,       0.0);         ( 372265.9, 3768895.0,      42.3,       0.0);
( 372290.9, 3768895.0,      42.0,       0.0);         ( 372315.9, 3768895.0,      41.6,       0.0);
( 372340.9, 3768895.0,      41.3,       0.0);         ( 372365.9, 3768895.0,      41.0,       0.0);
( 371340.9, 3768920.0,      56.8,       0.0);         ( 371365.9, 3768920.0,      56.2,       0.0);
( 371390.9, 3768920.0,      55.2,       0.0);         ( 371415.9, 3768920.0,      55.1,       0.0);
( 371440.9, 3768920.0,      54.7,       0.0);         ( 371465.9, 3768920.0,      54.6,       0.0);
( 371490.9, 3768920.0,      54.5,       0.0);         ( 371515.9, 3768920.0,      54.3,       0.0);
( 371540.9, 3768920.0,      53.8,       0.0);         ( 371565.9, 3768920.0,      53.6,       0.0);
( 371590.9, 3768920.0,      53.0,       0.0);         ( 371615.9, 3768920.0,      52.8,       0.0);
( 371640.9, 3768920.0,      52.4,       0.0);         ( 371665.9, 3768920.0,      52.1,       0.0);
( 371690.9, 3768920.0,      51.5,       0.0);         ( 371715.9, 3768920.0,      51.5,       0.0);
( 371740.9, 3768920.0,      51.0,       0.0);         ( 371765.9, 3768920.0,      50.7,       0.0);
( 371790.9, 3768920.0,      50.2,       0.0);         ( 371815.9, 3768920.0,      50.0,       0.0);
( 371840.9, 3768920.0,      49.5,       0.0);         ( 371865.9, 3768920.0,      49.3,       0.0);
( 371890.9, 3768920.0,      49.0,       0.0);         ( 371915.9, 3768920.0,      48.7,       0.0);
( 371940.9, 3768920.0,      48.0,       0.0);         ( 371965.9, 3768920.0,      47.8,       0.0);
( 371990.9, 3768920.0,      47.0,       0.0);         ( 372015.9, 3768920.0,      46.7,       0.0);
( 372040.9, 3768920.0,      46.0,       0.0);         ( 372065.9, 3768920.0,      45.8,       0.0);
( 372090.9, 3768920.0,      45.2,       0.0);         ( 372115.9, 3768920.0,      44.9,       0.0);
( 372140.9, 3768920.0,      44.2,       0.0);         ( 372165.9, 3768920.0,      43.9,       0.0);
( 372190.9, 3768920.0,      43.2,       0.0);         ( 372215.9, 3768920.0,      43.0,       0.0);
( 372240.9, 3768920.0,      42.5,       0.0);         ( 372265.9, 3768920.0,      42.3,       0.0);
( 372290.9, 3768920.0,      41.9,       0.0);         ( 372315.9, 3768920.0,      41.7,       0.0);
( 372340.9, 3768920.0,      41.2,       0.0);         ( 372365.9, 3768920.0,      41.1,       0.0);
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 CONC URBAN ELEV NOSTD
HE>ZI

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(	371340.9,	3768945.0,	57.2,	0.0);	(371365.9,	3768945.0,	56.5,	0.0);
(	371390.9,	3768945.0,	55.9,	0.0);	(371415.9,	3768945.0,	55.7,	0.0);
(	371440.9,	3768945.0,	55.3,	0.0);	(371465.9,	3768945.0,	55.1,	0.0);
(	371490.9,	3768945.0,	54.8,	0.0);	(371515.9,	3768945.0,	54.5,	0.0);
(	371540.9,	3768945.0,	54.0,	0.0);	(371565.9,	3768945.0,	53.6,	0.0);
(	371590.9,	3768945.0,	53.2,	0.0);	(371615.9,	3768945.0,	52.9,	0.0);
(	371640.9,	3768945.0,	52.5,	0.0);	(371665.9,	3768945.0,	52.1,	0.0);
(	371690.9,	3768945.0,	51.7,	0.0);	(371715.9,	3768945.0,	51.5,	0.0);
(	371740.9,	3768945.0,	51.0,	0.0);	(371765.9,	3768945.0,	50.7,	0.0);
(	371790.9,	3768945.0,	50.3,	0.0);	(371815.9,	3768945.0,	50.0,	0.0);
(	371840.9,	3768945.0,	49.5,	0.0);	(371865.9,	3768945.0,	49.2,	0.0);
(	371890.9,	3768945.0,	48.7,	0.0);	(371915.9,	3768945.0,	48.5,	0.0);
(	371940.9,	3768945.0,	48.1,	0.0);	(371965.9,	3768945.0,	47.6,	0.0);
(	371990.9,	3768945.0,	47.1,	0.0);	(372015.9,	3768945.0,	46.6,	0.0);
(	372040.9,	3768945.0,	46.1,	0.0);	(372065.9,	3768945.0,	45.7,	0.0);
(	372090.9,	3768945.0,	45.2,	0.0);	(372115.9,	3768945.0,	44.8,	0.0);
(	372140.9,	3768945.0,	44.3,	0.0);	(372165.9,	3768945.0,	44.0,	0.0);
(	372190.9,	3768945.0,	43.4,	0.0);	(372215.9,	3768945.0,	43.1,	0.0);
(	372240.9,	3768945.0,	42.6,	0.0);	(372265.9,	3768945.0,	42.3,	0.0);
(	372290.9,	3768945.0,	42.0,	0.0);	(372315.9,	3768945.0,	41.8,	0.0);
(	372340.9,	3768945.0,	41.5,	0.0);	(372365.9,	3768945.0,	41.2,	0.0);
(	371340.9,	3768970.0,	57.3,	0.0);	(371365.9,	3768970.0,	56.8,	0.0);
(	371390.9,	3768970.0,	56.1,	0.0);	(371415.9,	3768970.0,	55.9,	0.0);
(	371440.9,	3768970.0,	55.5,	0.0);	(371465.9,	3768970.0,	55.3,	0.0);
(	371490.9,	3768970.0,	54.8,	0.0);	(371515.9,	3768970.0,	54.6,	0.0);
(	371540.9,	3768970.0,	54.0,	0.0);	(371565.9,	3768970.0,	53.6,	0.0);
(	371590.9,	3768970.0,	53.2,	0.0);	(371615.9,	3768970.0,	53.0,	0.0);
(	371640.9,	3768970.0,	52.4,	0.0);	(371665.9,	3768970.0,	52.1,	0.0);
(	371690.9,	3768970.0,	51.7,	0.0);	(371715.9,	3768970.0,	51.5,	0.0);
(	371740.9,	3768970.0,	51.0,	0.0);	(371765.9,	3768970.0,	50.7,	0.0);

(371790.9, 3768970.0, 50.2, 0.0); (371815.9, 3768970.0, 50.0, 0.0);
(371840.9, 3768970.0, 49.5, 0.0); (371865.9, 3768970.0, 49.2, 0.0);
(371890.9, 3768970.0, 48.7, 0.0); (371915.9, 3768970.0, 48.4, 0.0);
(371940.9, 3768970.0, 47.9, 0.0); (371965.9, 3768970.0, 47.6, 0.0);
(371990.9, 3768970.0, 47.0, 0.0); (372015.9, 3768970.0, 46.6, 0.0);
(372040.9, 3768970.0, 46.0, 0.0); (372065.9, 3768970.0, 45.7, 0.0);
(372090.9, 3768970.0, 45.2, 0.0); (372115.9, 3768970.0, 44.9, 0.0);
(372140.9, 3768970.0, 44.2, 0.0); (372165.9, 3768970.0, 44.0, 0.0);
(372190.9, 3768970.0, 43.4, 0.0); (372215.9, 3768970.0, 43.1, 0.0);
(372240.9, 3768970.0, 42.5, 0.0); (372265.9, 3768970.0, 42.5, 0.0);
(372290.9, 3768970.0, 42.0, 0.0); (372315.9, 3768970.0, 41.8, 0.0);
(372340.9, 3768970.0, 41.5, 0.0); (372365.9, 3768970.0, 41.3, 0.0);
(371340.9, 3768995.0, 57.6, 0.0); (371365.9, 3768995.0, 57.1, 0.0);
(371390.9, 3768995.0, 56.4, 0.0); (371415.9, 3768995.0, 56.1, 0.0);

(371440.9, 3768995.0, 55.7, 0.0); (371465.9, 3768995.0, 55.3, 0.0);

**MODELOPTs:
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CONC URBAN ELEV NOSTD HE>ZI

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(371490.9, 3768995.0, 54.8, 0.0); (371515.9, 3768995.0, 54.5, 0.0);
(371540.9, 3768995.0, 54.1, 0.0); (371565.9, 3768995.0, 53.7, 0.0);
(371590.9, 3768995.0, 53.3, 0.0); (371615.9, 3768995.0, 52.8, 0.0);
(371640.9, 3768995.0, 52.5, 0.0); (371665.9, 3768995.0, 52.1, 0.0);
(371690.9, 3768995.0, 51.7, 0.0); (371715.9, 3768995.0, 51.5, 0.0);
(371815.9, 3768995.0, 50.0, 0.0); (371840.9, 3768995.0, 49.5, 0.0);
(371865.9, 3768995.0, 49.1, 0.0); (371890.9, 3768995.0, 48.7, 0.0);
(371915.9, 3768995.0, 48.3, 0.0); (371940.9, 3768995.0, 47.8, 0.0);
(371965.9, 3768995.0, 47.6, 0.0); (371990.9, 3768995.0, 47.0, 0.0);
(372015.9, 3768995.0, 46.6, 0.0); (372040.9, 3768995.0, 46.1, 0.0);
(372065.9, 3768995.0, 45.7, 0.0); (372090.9, 3768995.0, 45.2, 0.0);
(372115.9, 3768995.0, 45.0, 0.0); (372140.9, 3768995.0, 44.5, 0.0);
(372165.9, 3768995.0, 44.1, 0.0); (372190.9, 3768995.0, 43.6, 0.0);
(372215.9, 3768995.0, 43.2, 0.0); (372240.9, 3768995.0, 42.8, 0.0);

```
    ( 372265.9, 3768995.0,      42.5,       0.0);         ( 372290.9, 3768995.0,      42.2,       0.0);
    ( 372315.9, 3768995.0,      42.0,       0.0);         ( 372340.9, 3768995.0,      41.6,       0.0);
    ( 372365.9, 3768995.0,      41.5,       0.0);         ( 371340.9, 3769020.0,      57.6,       0.0);
    ( 371365.9, 3769020.0,      57.1,       0.0);         ( 371390.9, 3769020.0,      56.5,       0.0);
    ( 371415.9, 3769020.0,      56.1,       0.0);         ( 371440.9, 3769020.0,      55.5,       0.0);
    ( 371465.9, 3769020.0,      55.3,       0.0);         ( 371490.9, 3769020.0,      54.7,       0.0);
    ( 371515.9, 3769020.0,      54.5,       0.0);         ( 371540.9, 3769020.0,      54.0,       0.0);
    ( 371565.9, 3769020.0,      53.7,       0.0);         ( 371590.9, 3769020.0,      53.2,       0.0);

    ( 371615.9, 3769020.0,      53.0,       0.0);         ( 371640.9, 3769020.0,      52.4,       0.0);
    ( 371665.9, 3769020.0,      52.1,       0.0);         ( 371690.9, 3769020.0,      51.7,       0.0);
    ( 371715.9, 3769020.0,      51.5,       0.0);         ( 371740.9, 3769020.0,      51.0,       0.0);
    ( 371765.9, 3769020.0,      50.7,       0.0);         ( 371790.9, 3769020.0,      50.2,       0.0);
    ( 371815.9, 3769020.0,      50.0,       0.0);         ( 371840.9, 3769020.0,      49.4,       0.0);
    ( 371865.9, 3769020.0,      49.1,       0.0);         ( 371890.9, 3769020.0,      48.7,       0.0);
    ( 371915.9, 3769020.0,      48.4,       0.0);         ( 371940.9, 3769020.0,      47.8,       0.0);
    ( 371965.9, 3769020.0,      47.6,       0.0);         ( 371990.9, 3769020.0,      46.9,       0.0);
    ( 372015.9, 3769020.0,      46.6,       0.0);         ( 372040.9, 3769020.0,      46.0,       0.0);
    ( 372065.9, 3769020.0,      45.8,       0.0);         ( 372090.9, 3769020.0,      45.2,       0.0);
    ( 372115.9, 3769020.0,      45.0,       0.0);         ( 372140.9, 3769020.0,      44.4,       0.0);
    ( 372165.9, 3769020.0,      44.1,       0.0);         ( 372190.9, 3769020.0,      43.5,       0.0);
    ( 372215.9, 3769020.0,      43.3,       0.0);         ( 372240.9, 3769020.0,      42.8,       0.0);
    ( 372265.9, 3769020.0,      42.6,       0.0);         ( 372290.9, 3769020.0,      42.2,       0.0);
    ( 372315.9, 3769020.0,      42.1,       0.0);         ( 372340.9, 3769020.0,      41.7,       0.0);
    ( 372365.9, 3769020.0,      41.6,       0.0);         ( 371340.9, 3769045.0,      57.7,       0.0);
    ( 371365.9, 3769045.0,      57.2,       0.0);         ( 371390.9, 3769045.0,      56.6,       0.0);
    ( 371415.9, 3769045.0,      56.1,       0.0);         ( 371440.9, 3769045.0,      55.6,       0.0);
    ( 371465.9, 3769045.0,      55.1,       0.0);         ( 371490.9, 3769045.0,      54.6,       0.0);
    ( 371515.9, 3769045.0,      54.5,       0.0);         ( 371540.9, 3769045.0,      54.0,       0.0);
    ( 371565.9, 3769045.0,      53.7,       0.0);         ( 371590.9, 3769045.0,      53.3,       0.0);
    ( 371615.9, 3769045.0,      53.0,       0.0);         ( 371640.9, 3769045.0,      52.6,       0.0);
    ( 371665.9, 3769045.0,      52.3,       0.0);         ( 371690.9, 3769045.0,      51.8,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05
                                    ***                                                               ***
13:26:49
 **MODELOPTs:
PAGE  15
 CONC                    URBAN ELEV                      NOSTD
HE>ZI


                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                    (X-COORD, Y-COORD, ZELEV, ZFLAG)
```

(METERS)

(371715.9,	3769045.0,	51.4,	0.0);	(371740.9,	3769045.0,	51.0,	0.0);
(371765.9,	3769045.0,	50.7,	0.0);	(371790.9,	3769045.0,	50.3,	0.0);
(371815.9,	3769045.0,	50.0,	0.0);	(371840.9,	3769045.0,	49.5,	0.0);
(371865.9,	3769045.0,	49.2,	0.0);	(371890.9,	3769045.0,	48.7,	0.0);
(371915.9,	3769045.0,	48.5,	0.0);	(371940.9,	3769045.0,	48.0,	0.0);
(371965.9,	3769045.0,	47.6,	0.0);	(371990.9,	3769045.0,	47.1,	0.0);
(372015.9,	3769045.0,	46.6,	0.0);	(372040.9,	3769045.0,	46.1,	0.0);
(372065.9,	3769045.0,	45.8,	0.0);	(372090.9,	3769045.0,	45.3,	0.0);
(372115.9,	3769045.0,	45.0,	0.0);	(372140.9,	3769045.0,	44.6,	0.0);
(372165.9,	3769045.0,	44.2,	0.0);	(372190.9,	3769045.0,	43.8,	0.0);
(372215.9,	3769045.0,	43.5,	0.0);	(372240.9,	3769045.0,	43.0,	0.0);
(372265.9,	3769045.0,	42.8,	0.0);	(372290.9,	3769045.0,	42.5,	0.0);
(372315.9,	3769045.0,	42.4,	0.0);	(372340.9,	3769045.0,	42.0,	0.0);
(372365.9,	3769045.0,	41.8,	0.0);	(371340.9,	3769070.0,	57.6,	0.0);
(371365.9,	3769070.0,	57.2,	0.0);	(371390.9,	3769070.0,	56.5,	0.0);
(371415.9,	3769070.0,	56.1,	0.0);	(371440.9,	3769070.0,	55.5,	0.0);
(371465.9,	3769070.0,	55.1,	0.0);	(371490.9,	3769070.0,	54.5,	0.0);
(371515.9,	3769070.0,	54.4,	0.0);	(371540.9,	3769070.0,	54.0,	0.0);
(371565.9,	3769070.0,	53.7,	0.0);	(371590.9,	3769070.0,	53.2,	0.0);
(371615.9,	3769070.0,	53.0,	0.0);	(371640.9,	3769070.0,	52.5,	0.0);
(371665.9,	3769070.0,	52.3,	0.0);	(371690.9,	3769070.0,	51.7,	0.0);
(371715.9,	3769070.0,	51.6,	0.0);	(371740.9,	3769070.0,	51.0,	0.0);
(371765.9,	3769070.0,	50.8,	0.0);	(371790.9,	3769070.0,	50.2,	0.0);
(371815.9,	3769070.0,	50.0,	0.0);	(371840.9,	3769070.0,	49.5,	0.0);
(371865.9,	3769070.0,	49.2,	0.0);	(371890.9,	3769070.0,	48.7,	0.0);
(371915.9,	3769070.0,	48.5,	0.0);	(371940.9,	3769070.0,	47.9,	0.0);
(371965.9,	3769070.0,	47.6,	0.0);	(371990.9,	3769070.0,	47.0,	0.0);
(372015.9,	3769070.0,	46.8,	0.0);	(372040.9,	3769070.0,	46.0,	0.0);
(372065.9,	3769070.0,	45.8,	0.0);	(372090.9,	3769070.0,	45.2,	0.0);
(372115.9,	3769070.0,	45.1,	0.0);	(372140.9,	3769070.0,	44.5,	0.0);
(372165.9,	3769070.0,	44.4,	0.0);	(372190.9,	3769070.0,	43.8,	0.0);
(372215.9,	3769070.0,	43.6,	0.0);	(372240.9,	3769070.0,	43.0,	0.0);
(372265.9,	3769070.0,	42.9,	0.0);	(372290.9,	3769070.0,	42.7,	0.0);
(372315.9,	3769070.0,	42.5,	0.0);	(372340.9,	3769070.0,	42.0,	0.0);
(372365.9,	3769070.0,	41.8,	0.0);	(371340.9,	3769095.0,	57.7,	0.0);
(371365.9,	3769095.0,	57.1,	0.0);	(371390.9,	3769095.0,	56.5,	0.0);
(371415.9,	3769095.0,	56.1,	0.0);	(371440.9,	3769095.0,	55.5,	0.0);
(371465.9,	3769095.0,	55.1,	0.0);	(371490.9,	3769095.0,	54.6,	0.0);
(371515.9,	3769095.0,	54.3,	0.0);	(371540.9,	3769095.0,	54.0,	0.0);
(371565.9,	3769095.0,	53.7,	0.0);	(371590.9,	3769095.0,	53.3,	0.0);
(371615.9,	3769095.0,	53.0,	0.0);	(371640.9,	3769095.0,	52.6,	0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(	371665.9,	3769095.0,	52.3,	0.0);	(371690.9,	3769095.0,	51.9,	0.0);
(	371715.9,	3769095.0,	51.6,	0.0);	(371740.9,	3769095.0,	51.1,	0.0);
(	371765.9,	3769095.0,	50.8,	0.0);	(371790.9,	3769095.0,	50.4,	0.0);
(	371815.9,	3769095.0,	50.1,	0.0);	(371840.9,	3769095.0,	49.6,	0.0);
(	371865.9,	3769095.0,	49.2,	0.0);	(371890.9,	3769095.0,	48.8,	0.0);
(	371915.9,	3769095.0,	48.5,	0.0);	(371940.9,	3769095.0,	48.0,	0.0);
(	371965.9,	3769095.0,	47.8,	0.0);	(371990.9,	3769095.0,	47.2,	0.0);
(	372015.9,	3769095.0,	46.8,	0.0);	(372040.9,	3769095.0,	46.3,	0.0);
(	372065.9,	3769095.0,	45.9,	0.0);	(372090.9,	3769095.0,	45.5,	0.0);
(	372115.9,	3769095.0,	45.1,	0.0);	(372140.9,	3769095.0,	44.7,	0.0);
(	372165.9,	3769095.0,	44.5,	0.0);	(372190.9,	3769095.0,	44.0,	0.0);
(	372215.9,	3769095.0,	43.8,	0.0);	(372240.9,	3769095.0,	43.4,	0.0);
(	372265.9,	3769095.0,	43.2,	0.0);	(372290.9,	3769095.0,	42.8,	0.0);
(	372315.9,	3769095.0,	42.6,	0.0);	(372340.9,	3769095.0,	42.2,	0.0);
(	372365.9,	3769095.0,	42.0,	0.0);	(371340.9,	3769120.0,	57.5,	0.0);
(	371365.9,	3769120.0,	57.1,	0.0);	(371390.9,	3769120.0,	56.4,	0.0);
(	371415.9,	3769120.0,	56.1,	0.0);	(371440.9,	3769120.0,	55.4,	0.0);
(	371465.9,	3769120.0,	55.1,	0.0);	(371490.9,	3769120.0,	54.5,	0.0);
(	371515.9,	3769120.0,	54.4,	0.0);	(371540.9,	3769120.0,	53.9,	0.0);
(	371565.9,	3769120.0,	53.7,	0.0);	(371590.9,	3769120.0,	53.2,	0.0);
(	371615.9,	3769120.0,	53.0,	0.0);	(371640.9,	3769120.0,	52.5,	0.0);
(	371665.9,	3769120.0,	52.4,	0.0);	(371690.9,	3769120.0,	51.9,	0.0);
(	371715.9,	3769120.0,	51.6,	0.0);	(371740.9,	3769120.0,	51.0,	0.0);
(	371765.9,	3769120.0,	50.9,	0.0);	(371790.9,	3769120.0,	50.4,	0.0);
(	371815.9,	3769120.0,	50.1,	0.0);	(371840.9,	3769120.0,	49.5,	0.0);
(	371865.9,	3769120.0,	49.3,	0.0);	(371890.9,	3769120.0,	48.7,	0.0);
(	371915.9,	3769120.0,	48.5,	0.0);	(371940.9,	3769120.0,	48.0,	0.0);
(	371965.9,	3769120.0,	47.8,	0.0);	(371990.9,	3769120.0,	47.2,	0.0);
(	372015.9,	3769120.0,	46.9,	0.0);	(372040.9,	3769120.0,	46.2,	0.0);
(	372065.9,	3769120.0,	46.0,	0.0);	(372090.9,	3769120.0,	45.5,	0.0);

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    ( 372115.9, 3769120.0,      45.2,       0.0);         ( 372140.9, 3769120.0,      44.7,       0.0);
    ( 372165.9, 3769120.0,      44.6,       0.0);         ( 372190.9, 3769120.0,      44.0,       0.0);
    ( 372215.9, 3769120.0,      43.9,       0.0);         ( 372240.9, 3769120.0,      43.5,       0.0);
    ( 372265.9, 3769120.0,      43.3,       0.0);         ( 372290.9, 3769120.0,      42.9,       0.0);
    ( 372315.9, 3769120.0,      42.6,       0.0);         ( 372340.9, 3769120.0,      42.2,       0.0);
    ( 372365.9, 3769120.0,      42.1,       0.0);         ( 371340.9, 3769145.0,      57.6,       0.0);
    ( 371365.9, 3769145.0,      57.1,       0.0);         ( 371390.9, 3769145.0,      56.5,       0.0);
    ( 371415.9, 3769145.0,      56.1,       0.0);         ( 371440.9, 3769145.0,      55.5,       0.0);
    ( 371465.9, 3769145.0,      55.1,       0.0);         ( 371490.9, 3769145.0,      54.6,       0.0);
    ( 371515.9, 3769145.0,      54.4,       0.0);         ( 371540.9, 3769145.0,      54.0,       0.0);
    ( 371565.9, 3769145.0,      53.8,       0.0);         ( 371590.9, 3769145.0,      53.3,       0.0);
    ( 371615.9, 3769145.0,      53.1,       0.0);         ( 371640.9, 3769145.0,      52.7,       0.0);
    ( 371665.9, 3769145.0,      52.5,       0.0);         ( 371690.9, 3769145.0,      52.0,       0.0);
    ( 371715.9, 3769145.0,      51.6,       0.0);         ( 371740.9, 3769145.0,      51.3,       0.0);
    ( 371765.9, 3769145.0,      51.0,       0.0);         ( 371790.9, 3769145.0,      50.5,       0.0);
    ( 371815.9, 3769145.0,      50.2,       0.0);         ( 371840.9, 3769145.0,      49.8,       0.0);
    ( 371865.9, 3769145.0,      49.5,       0.0);         ( 371890.9, 3769145.0,      49.0,       0.0);
    ( 371915.9, 3769145.0,      48.8,       0.0);         ( 371940.9, 3769145.0,      48.3,       0.0);
    ( 371965.9, 3769145.0,      48.0,       0.0);         ( 371990.9, 3769145.0,      47.5,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05
                                    ***                                                               ***
13:26:49
 **MODELOPTs:
PAGE  17
 CONC                    URBAN ELEV                      NOSTD
HE>ZI


                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                    (X-COORD, Y-COORD, ZELEV, ZFLAG)
                                              (METERS)

    ( 372015.9, 3769145.0,      47.1,       0.0);         ( 372040.9, 3769145.0,      46.5,       0.0);
    ( 372065.9, 3769145.0,      46.1,       0.0);         ( 372090.9, 3769145.0,      45.6,       0.0);
    ( 372115.9, 3769145.0,      45.3,       0.0);         ( 372140.9, 3769145.0,      45.0,       0.0);
    ( 372165.9, 3769145.0,      44.8,       0.0);         ( 372190.9, 3769145.0,      44.3,       0.0);
    ( 372215.9, 3769145.0,      44.1,       0.0);         ( 372240.9, 3769145.0,      43.6,       0.0);
    ( 372265.9, 3769145.0,      43.5,       0.0);         ( 372290.9, 3769145.0,      43.0,       0.0);
    ( 372315.9, 3769145.0,      42.8,       0.0);         ( 372340.9, 3769145.0,      42.5,       0.0);
    ( 372365.9, 3769145.0,      42.2,       0.0);         ( 371340.9, 3769170.0,      57.5,       0.0);
    ( 371365.9, 3769170.0,      57.1,       0.0);         ( 371390.9, 3769170.0,      56.4,       0.0);
    ( 371415.9, 3769170.0,      56.1,       0.0);         ( 371440.9, 3769170.0,      55.4,       0.0);
    ( 371465.9, 3769170.0,      55.1,       0.0);         ( 371490.9, 3769170.0,      54.5,       0.0);
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    ( 371515.9, 3769170.0,      54.5,       0.0);          ( 371540.9, 3769170.0,      54.0,       0.0);
    ( 371565.9, 3769170.0,      53.8,       0.0);          ( 371590.9, 3769170.0,      53.4,       0.0);
    ( 371615.9, 3769170.0,      53.1,       0.0);          ( 371640.9, 3769170.0,      52.7,       0.0);
    ( 371665.9, 3769170.0,      52.5,       0.0);          ( 371690.9, 3769170.0,      52.0,       0.0);
    ( 371715.9, 3769170.0,      51.8,       0.0);          ( 371740.9, 3769170.0,      51.2,       0.0);
    ( 371765.9, 3769170.0,      51.0,       0.0);          ( 371790.9, 3769170.0,      50.5,       0.0);
    ( 371815.9, 3769170.0,      50.2,       0.0);          ( 371840.9, 3769170.0,      49.7,       0.0);
    ( 371865.9, 3769170.0,      49.6,       0.0);          ( 371890.9, 3769170.0,      49.0,       0.0);
    ( 371915.9, 3769170.0,      49.0,       0.0);          ( 371940.9, 3769170.0,      48.4,       0.0);
    ( 371965.9, 3769170.0,      48.1,       0.0);          ( 371990.9, 3769170.0,      47.4,       0.0);
    ( 372015.9, 3769170.0,      47.1,       0.0);          ( 372040.9, 3769170.0,      46.5,       0.0);
    ( 372065.9, 3769170.0,      46.1,       0.0);          ( 372090.9, 3769170.0,      45.5,       0.0);
    ( 372115.9, 3769170.0,      45.5,       0.0);          ( 372140.9, 3769170.0,      45.0,       0.0);
    ( 372165.9, 3769170.0,      44.8,       0.0);          ( 372190.9, 3769170.0,      44.4,       0.0);
    ( 372215.9, 3769170.0,      44.1,       0.0);          ( 372240.9, 3769170.0,      43.7,       0.0);
    ( 372265.9, 3769170.0,      43.5,       0.0);          ( 372290.9, 3769170.0,      43.0,       0.0);
    ( 372315.9, 3769170.0,      42.8,       0.0);          ( 372340.9, 3769170.0,      42.5,       0.0);
    ( 372365.9, 3769170.0,      42.3,       0.0);          ( 371340.9, 3769195.0,      57.5,       0.0);
    ( 371365.9, 3769195.0,      57.1,       0.0);          ( 371390.9, 3769195.0,      56.5,       0.0);
    ( 371415.9, 3769195.0,      56.1,       0.0);          ( 371440.9, 3769195.0,      55.6,       0.0);
    ( 371465.9, 3769195.0,      55.2,       0.0);          ( 371490.9, 3769195.0,      54.8,       0.0);
    ( 371515.9, 3769195.0,      54.5,       0.0);          ( 371540.9, 3769195.0,      54.1,       0.0);
    ( 371565.9, 3769195.0,      53.9,       0.0);          ( 371590.9, 3769195.0,      53.5,       0.0);
    ( 371615.9, 3769195.0,      53.2,       0.0);          ( 371640.9, 3769195.0,      52.8,       0.0);
    ( 371665.9, 3769195.0,      52.5,       0.0);          ( 371690.9, 3769195.0,      52.1,       0.0);
    ( 371715.9, 3769195.0,      51.8,       0.0);          ( 371740.9, 3769195.0,      51.3,       0.0);
    ( 371765.9, 3769195.0,      51.0,       0.0);          ( 371790.9, 3769195.0,      50.6,       0.0);
    ( 371815.9, 3769195.0,      50.3,       0.0);          ( 371840.9, 3769195.0,      50.0,       0.0);
    ( 371865.9, 3769195.0,      49.7,       0.0);          ( 371890.9, 3769195.0,      49.3,       0.0);
    ( 371915.9, 3769195.0,      49.0,       0.0);          ( 371940.9, 3769195.0,      48.5,       0.0);
    ( 371965.9, 3769195.0,      48.2,       0.0);          ( 371990.9, 3769195.0,      47.6,       0.0);
    ( 372015.9, 3769195.0,      47.3,       0.0);          ( 372040.9, 3769195.0,      46.7,       0.0);
    ( 372065.9, 3769195.0,      46.3,       0.0);          ( 372090.9, 3769195.0,      46.0,       0.0);
    ( 372115.9, 3769195.0,      45.8,       0.0);          ( 372140.9, 3769195.0,      45.3,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05                            ***                                                               ***
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 **MODELOPTs:
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 CONC                    URBAN ELEV                      NOSTD
HE>ZI
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(372165.9,	3769195.0,	45.0,	0.0);	(372190.9,	3769195.0,	44.6,	0.0);
(372215.9,	3769195.0,	44.4,	0.0);	(372240.9,	3769195.0,	44.0,	0.0);
(372265.9,	3769195.0,	43.7,	0.0);	(372290.9,	3769195.0,	43.3,	0.0);
(372315.9,	3769195.0,	43.0,	0.0);	(372340.9,	3769195.0,	42.7,	0.0);
(372365.9,	3769195.0,	42.5,	0.0);	(371340.9,	3769220.0,	57.4,	0.0);
(371365.9,	3769220.0,	57.1,	0.0);	(371390.9,	3769220.0,	56.4,	0.0);
(371415.9,	3769220.0,	56.1,	0.0);	(371440.9,	3769220.0,	55.5,	0.0);
(371465.9,	3769220.0,	55.3,	0.0);	(371490.9,	3769220.0,	54.8,	0.0);
(371515.9,	3769220.0,	54.6,	0.0);	(371540.9,	3769220.0,	54.2,	0.0);
(371565.9,	3769220.0,	54.0,	0.0);	(371590.9,	3769220.0,	53.5,	0.0);
(371615.9,	3769220.0,	53.3,	0.0);	(371640.9,	3769220.0,	52.7,	0.0);
(371665.9,	3769220.0,	52.5,	0.0);	(371690.9,	3769220.0,	52.0,	0.0);
(371715.9,	3769220.0,	51.8,	0.0);	(371740.9,	3769220.0,	51.3,	0.0);
(371765.9,	3769220.0,	51.1,	0.0);	(371790.9,	3769220.0,	50.5,	0.0);
(371815.9,	3769220.0,	50.4,	0.0);	(371840.9,	3769220.0,	50.0,	0.0);
(371865.9,	3769220.0,	49.7,	0.0);	(371890.9,	3769220.0,	49.2,	0.0);
(371915.9,	3769220.0,	49.1,	0.0);	(371940.9,	3769220.0,	48.5,	0.0);
(371965.9,	3769220.0,	48.3,	0.0);	(371990.9,	3769220.0,	47.7,	0.0);
(372015.9,	3769220.0,	47.4,	0.0);	(372040.9,	3769220.0,	46.7,	0.0);
(372065.9,	3769220.0,	46.5,	0.0);	(372090.9,	3769220.0,	46.0,	0.0);
(372115.9,	3769220.0,	45.8,	0.0);	(372140.9,	3769220.0,	45.3,	0.0);
(372165.9,	3769220.0,	45.1,	0.0);	(372190.9,	3769220.0,	44.7,	0.0);
(372215.9,	3769220.0,	44.5,	0.0);	(372240.9,	3769220.0,	44.0,	0.0);
(372265.9,	3769220.0,	43.8,	0.0);	(372290.9,	3769220.0,	43.3,	0.0);
(372315.9,	3769220.0,	43.1,	0.0);	(372340.9,	3769220.0,	42.7,	0.0);
(372365.9,	3769220.0,	42.6,	0.0);	(371340.9,	3769245.0,	57.3,	0.0);
(371365.9,	3769245.0,	57.1,	0.0);	(371390.9,	3769245.0,	56.6,	0.0);
(371415.9,	3769245.0,	56.2,	0.0);	(371440.9,	3769245.0,	55.8,	0.0);
(371465.9,	3769245.0,	55.5,	0.0);	(371490.9,	3769245.0,	55.0,	0.0);
(371515.9,	3769245.0,	54.7,	0.0);	(371540.9,	3769245.0,	54.3,	0.0);
(371565.9,	3769245.0,	54.0,	0.0);	(371590.9,	3769245.0,	53.6,	0.0);
(371615.9,	3769245.0,	53.3,	0.0);	(371640.9,	3769245.0,	52.8,	0.0);
(371665.9,	3769245.0,	52.6,	0.0);	(371690.9,	3769245.0,	52.1,	0.0);
(371715.9,	3769245.0,	52.0,	0.0);	(371740.9,	3769245.0,	51.5,	0.0);
(371765.9,	3769245.0,	51.1,	0.0);	(371790.9,	3769245.0,	50.7,	0.0);
(371815.9,	3769245.0,	50.5,	0.0);	(371840.9,	3769245.0,	50.0,	0.0);
(371865.9,	3769245.0,	49.8,	0.0);	(371890.9,	3769245.0,	49.5,	0.0);
(371915.9,	3769245.0,	49.1,	0.0);	(371940.9,	3769245.0,	48.6,	0.0);
(371965.9,	3769245.0,	48.3,	0.0);	(371990.9,	3769245.0,	47.8,	0.0);
(372015.9,	3769245.0,	47.5,	0.0);	(372040.9,	3769245.0,	47.0,	0.0);

(372065.9, 3769245.0, 46.6, 0.0); (372090.9, 3769245.0, 46.2, 0.0);
(372115.9, 3769245.0, 46.0, 0.0); (372140.9, 3769245.0, 45.5, 0.0);
(372165.9, 3769245.0, 45.2, 0.0); (372190.9, 3769245.0, 44.8, 0.0);
(372215.9, 3769245.0, 44.6, 0.0); (372240.9, 3769245.0, 44.1, 0.0);
(372265.9, 3769245.0, 43.9, 0.0); (372290.9, 3769245.0, 43.5, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(372315.9, 3769245.0, 43.3, 0.0); (372340.9, 3769245.0, 43.0, 0.0);
(372365.9, 3769245.0, 42.8, 0.0); (371340.9, 3769270.0, 57.2, 0.0);
(371365.9, 3769270.0, 57.0, 0.0); (371390.9, 3769270.0, 56.5, 0.0);
(371415.9, 3769270.0, 56.3, 0.0); (371440.9, 3769270.0, 55.7, 0.0);
(371465.9, 3769270.0, 55.5, 0.0); (371490.9, 3769270.0, 55.0, 0.0);
(371515.9, 3769270.0, 54.8, 0.0); (371540.9, 3769270.0, 54.2, 0.0);
(371565.9, 3769270.0, 54.1, 0.0); (371590.9, 3769270.0, 53.5, 0.0);
(371615.9, 3769270.0, 53.3, 0.0); (371640.9, 3769270.0, 52.8, 0.0);
(371665.9, 3769270.0, 52.6, 0.0); (371690.9, 3769270.0, 52.2, 0.0);
(371715.9, 3769270.0, 52.0, 0.0); (371740.9, 3769270.0, 51.4, 0.0);
(371765.9, 3769270.0, 51.1, 0.0); (371790.9, 3769270.0, 50.7, 0.0);
(371815.9, 3769270.0, 50.5, 0.0); (371840.9, 3769270.0, 50.0, 0.0);
(371865.9, 3769270.0, 49.8, 0.0); (371890.9, 3769270.0, 49.4, 0.0);
(371915.9, 3769270.0, 49.1, 0.0); (371940.9, 3769270.0, 48.7, 0.0);
(371965.9, 3769270.0, 48.5, 0.0); (371990.9, 3769270.0, 47.8, 0.0);
(372015.9, 3769270.0, 47.6, 0.0); (372040.9, 3769270.0, 47.0, 0.0);
(372065.9, 3769270.0, 46.8, 0.0); (372090.9, 3769270.0, 46.2, 0.0);
(372115.9, 3769270.0, 46.0, 0.0); (372140.9, 3769270.0, 45.5, 0.0);
(372165.9, 3769270.0, 45.3, 0.0); (372190.9, 3769270.0, 44.9, 0.0);
(372215.9, 3769270.0, 44.6, 0.0); (372240.9, 3769270.0, 44.2, 0.0);
(372265.9, 3769270.0, 44.0, 0.0); (372290.9, 3769270.0, 43.5, 0.0);
(372315.9, 3769270.0, 43.5, 0.0); (372340.9, 3769270.0, 43.0, 0.0);
(372365.9, 3769270.0, 43.0, 0.0); (371340.9, 3769295.0, 57.3, 0.0);
(371365.9, 3769295.0, 57.0, 0.0); (371390.9, 3769295.0, 56.6, 0.0);
(371415.9, 3769295.0, 56.3, 0.0); (371440.9, 3769295.0, 55.8, 0.0);

```
    ( 371465.9, 3769295.0,      55.6,       0.0);         ( 371490.9, 3769295.0,      55.1,       0.0);
    ( 371515.9, 3769295.0,      54.8,       0.0);         ( 371540.9, 3769295.0,      54.5,       0.0);
    ( 371565.9, 3769295.0,      54.1,       0.0);         ( 371590.9, 3769295.0,      53.6,       0.0);
    ( 371615.9, 3769295.0,      53.4,       0.0);         ( 371640.9, 3769295.0,      53.0,       0.0);
    ( 371665.9, 3769295.0,      52.6,       0.0);         ( 371690.9, 3769295.0,      52.2,       0.0);
    ( 371715.9, 3769295.0,      52.0,       0.0);         ( 371740.9, 3769295.0,      51.5,       0.0);
    ( 371765.9, 3769295.0,      51.2,       0.0);         ( 371790.9, 3769295.0,      50.8,       0.0);
    ( 371815.9, 3769295.0,      50.6,       0.0);         ( 371840.9, 3769295.0,      50.1,       0.0);
    ( 371865.9, 3769295.0,      49.9,       0.0);         ( 371890.9, 3769295.0,      49.5,       0.0);
    ( 371915.9, 3769295.0,      49.2,       0.0);         ( 371940.9, 3769295.0,      48.8,       0.0);
    ( 371965.9, 3769295.0,      48.5,       0.0);         ( 371990.9, 3769295.0,      48.0,       0.0);
    ( 372015.9, 3769295.0,      47.6,       0.0);         ( 372040.9, 3769295.0,      47.1,       0.0);
    ( 372065.9, 3769295.0,      46.8,       0.0);         ( 372090.9, 3769295.0,      46.4,       0.0);
    ( 372115.9, 3769295.0,      46.1,       0.0);         ( 372140.9, 3769295.0,      45.6,       0.0);
    ( 372165.9, 3769295.0,      45.5,       0.0);         ( 372190.9, 3769295.0,      45.0,       0.0);

    ( 372215.9, 3769295.0,      44.8,       0.0);         ( 372240.9, 3769295.0,      44.4,       0.0);
    ( 372265.9, 3769295.0,      44.1,       0.0);         ( 372290.9, 3769295.0,      43.7,       0.0);
    ( 372315.9, 3769295.0,      43.5,       0.0);         ( 372340.9, 3769295.0,      43.2,       0.0);
    ( 372365.9, 3769295.0,      43.0,       0.0);         ( 371340.9, 3769320.0,      57.2,       0.0);
    ( 371365.9, 3769320.0,      57.1,       0.0);         ( 371390.9, 3769320.0,      56.5,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05
                                   ***                                                               ***
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 **MODELOPTs:
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 CONC                    URBAN ELEV                     NOSTD
HE>ZI


                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                    (X-COORD, Y-COORD, ZELEV, ZFLAG)
                                              (METERS)

    ( 371415.9, 3769320.0,      56.3,       0.0);         ( 371440.9, 3769320.0,      55.9,       0.0);
    ( 371465.9, 3769320.0,      55.6,       0.0);         ( 371490.9, 3769320.0,      55.2,       0.0);
    ( 371515.9, 3769320.0,      55.0,       0.0);         ( 371540.9, 3769320.0,      54.4,       0.0);
    ( 371565.9, 3769320.0,      54.1,       0.0);         ( 371590.9, 3769320.0,      53.7,       0.0);
    ( 371615.9, 3769320.0,      53.5,       0.0);         ( 371640.9, 3769320.0,      52.9,       0.0);
    ( 371665.9, 3769320.0,      52.7,       0.0);         ( 371690.9, 3769320.0,      52.2,       0.0);
    ( 371715.9, 3769320.0,      52.0,       0.0);         ( 371740.9, 3769320.0,      51.5,       0.0);
    ( 371765.9, 3769320.0,      51.3,       0.0);         ( 371790.9, 3769320.0,      50.8,       0.0);
    ( 371815.9, 3769320.0,      50.6,       0.0);         ( 371840.9, 3769320.0,      50.2,       0.0);
```

```
    ( 371865.9, 3769320.0,      50.0,       0.0);         ( 371890.9, 3769320.0,      49.5,       0.0);
    ( 371915.9, 3769320.0,      49.2,       0.0);         ( 371940.9, 3769320.0,      48.7,       0.0);
    ( 371965.9, 3769320.0,      48.5,       0.0);         ( 371990.9, 3769320.0,      47.9,       0.0);
    ( 372015.9, 3769320.0,      47.6,       0.0);         ( 372040.9, 3769320.0,      47.0,       0.0);
    ( 372065.9, 3769320.0,      46.9,       0.0);         ( 372090.9, 3769320.0,      46.4,       0.0);
    ( 372115.9, 3769320.0,      46.1,       0.0);         ( 372140.9, 3769320.0,      45.7,       0.0);
    ( 372165.9, 3769320.0,      45.5,       0.0);         ( 372190.9, 3769320.0,      45.0,       0.0);
    ( 372215.9, 3769320.0,      44.8,       0.0);         ( 372240.9, 3769320.0,      44.4,       0.0);
    ( 372265.9, 3769320.0,      44.2,       0.0);         ( 372290.9, 3769320.0,      43.7,       0.0);

    ( 372315.9, 3769320.0,      43.6,       0.0);         ( 372340.9, 3769320.0,      43.2,       0.0);
    ( 372365.9, 3769320.0,      43.1,       0.0);         ( 371340.9, 3769345.0,      57.3,       0.0);
    ( 371365.9, 3769345.0,      57.1,       0.0);         ( 371390.9, 3769345.0,      56.6,       0.0);
    ( 371415.9, 3769345.0,      56.3,       0.0);         ( 371440.9, 3769345.0,      56.0,       0.0);
    ( 371465.9, 3769345.0,      55.6,       0.0);         ( 371490.9, 3769345.0,      55.3,       0.0);
    ( 371515.9, 3769345.0,      55.0,       0.0);         ( 371540.9, 3769345.0,      54.5,       0.0);
    ( 371565.9, 3769345.0,      54.2,       0.0);         ( 371590.9, 3769345.0,      53.8,       0.0);
    ( 371615.9, 3769345.0,      53.5,       0.0);         ( 371640.9, 3769345.0,      53.0,       0.0);
    ( 371665.9, 3769345.0,      52.8,       0.0);         ( 371690.9, 3769345.0,      52.3,       0.0);
    ( 371715.9, 3769345.0,      52.0,       0.0);         ( 371740.9, 3769345.0,      51.6,       0.0);
    ( 371765.9, 3769345.0,      51.3,       0.0);         ( 371790.9, 3769345.0,      51.0,       0.0);
    ( 371815.9, 3769345.0,      50.6,       0.0);         ( 371840.9, 3769345.0,      50.2,       0.0);
    ( 371865.9, 3769345.0,      50.0,       0.0);         ( 371890.9, 3769345.0,      49.5,       0.0);
    ( 371915.9, 3769345.0,      49.2,       0.0);         ( 371940.9, 3769345.0,      48.8,       0.0);
    ( 371965.9, 3769345.0,      48.5,       0.0);         ( 371990.9, 3769345.0,      48.0,       0.0);
    ( 372015.9, 3769345.0,      47.7,       0.0);         ( 372040.9, 3769345.0,      47.2,       0.0);
    ( 372065.9, 3769345.0,      47.0,       0.0);         ( 372090.9, 3769345.0,      46.5,       0.0);
    ( 372115.9, 3769345.0,      46.3,       0.0);         ( 372140.9, 3769345.0,      45.8,       0.0);
    ( 372165.9, 3769345.0,      45.6,       0.0);         ( 372190.9, 3769345.0,      45.2,       0.0);
    ( 372215.9, 3769345.0,      45.0,       0.0);         ( 372240.9, 3769345.0,      44.5,       0.0);
    ( 372265.9, 3769345.0,      44.3,       0.0);         ( 372290.9, 3769345.0,      44.0,       0.0);
    ( 372315.9, 3769345.0,      43.7,       0.0);         ( 372340.9, 3769345.0,      43.4,       0.0);
    ( 372365.9, 3769345.0,      43.1,       0.0);         ( 371340.9, 3769370.0,      57.3,       0.0);
    ( 371365.9, 3769370.0,      57.1,       0.0);         ( 371390.9, 3769370.0,      56.5,       0.0);
    ( 371415.9, 3769370.0,      56.4,       0.0);         ( 371440.9, 3769370.0,      55.9,       0.0);
    ( 371465.9, 3769370.0,      55.6,       0.0);         ( 371490.9, 3769370.0,      55.2,       0.0);
    ( 371515.9, 3769370.0,      55.0,       0.0);         ( 371540.9, 3769370.0,      54.5,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05
                                    ***                                                               ***
13:26:49
 **MODELOPTs:
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CONC URBAN ELEV NOSTD
HE>ZI

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(	371565.9,	3769370.0,	54.2,	0.0);	(371590.9,	3769370.0,	53.7, 0.0);
(	371615.9,	3769370.0,	53.5,	0.0);	(371640.9,	3769370.0,	53.0, 0.0);
(	371665.9,	3769370.0,	52.8,	0.0);	(371690.9,	3769370.0,	52.2, 0.0);
(	371715.9,	3769370.0,	52.1,	0.0);	(371740.9,	3769370.0,	51.5, 0.0);
(	371765.9,	3769370.0,	51.5,	0.0);	(371790.9,	3769370.0,	50.9, 0.0);
(	371815.9,	3769370.0,	50.6,	0.0);	(371840.9,	3769370.0,	50.2, 0.0);
(	371865.9,	3769370.0,	50.0,	0.0);	(371890.9,	3769370.0,	49.5, 0.0);
(	371915.9,	3769370.0,	49.3,	0.0);	(371940.9,	3769370.0,	48.7, 0.0);
(	371965.9,	3769370.0,	48.5,	0.0);	(371990.9,	3769370.0,	48.0, 0.0);
(	372015.9,	3769370.0,	47.7,	0.0);	(372040.9,	3769370.0,	47.2, 0.0);
(	372065.9,	3769370.0,	47.0,	0.0);	(372090.9,	3769370.0,	46.5, 0.0);
(	372115.9,	3769370.0,	46.3,	0.0);	(372140.9,	3769370.0,	45.9, 0.0);
(	372165.9,	3769370.0,	45.6,	0.0);	(372190.9,	3769370.0,	45.2, 0.0);
(	372215.9,	3769370.0,	45.0,	0.0);	(372240.9,	3769370.0,	44.5, 0.0);
(	372265.9,	3769370.0,	44.4,	0.0);	(372290.9,	3769370.0,	43.9, 0.0);
(	372315.9,	3769370.0,	43.8,	0.0);	(372340.9,	3769370.0,	43.4, 0.0);
(	372365.9,	3769370.0,	43.2,	0.0);	(371340.9,	3769395.0,	57.5, 0.0);
(	371365.9,	3769395.0,	57.1,	0.0);	(371390.9,	3769395.0,	56.7, 0.0);
(	371415.9,	3769395.0,	56.5,	0.0);	(371440.9,	3769395.0,	56.0, 0.0);
(	371465.9,	3769395.0,	55.6,	0.0);	(371490.9,	3769395.0,	55.2, 0.0);
(	371515.9,	3769395.0,	54.9,	0.0);	(371540.9,	3769395.0,	54.5, 0.0);
(	371565.9,	3769395.0,	54.2,	0.0);	(371590.9,	3769395.0,	53.8, 0.0);
(	371615.9,	3769395.0,	53.5,	0.0);	(371640.9,	3769395.0,	53.1, 0.0);
(	371665.9,	3769395.0,	52.8,	0.0);	(371690.9,	3769395.0,	52.5, 0.0);
(	371715.9,	3769395.0,	52.2,	0.0);	(371740.9,	3769395.0,	51.7, 0.0);
(	371765.9,	3769395.0,	51.5,	0.0);	(371790.9,	3769395.0,	51.0, 0.0);
(	371815.9,	3769395.0,	50.8,	0.0);	(371840.9,	3769395.0,	50.3, 0.0);
(	371865.9,	3769395.0,	50.0,	0.0);	(371890.9,	3769395.0,	49.6, 0.0);
(	371915.9,	3769395.0,	49.3,	0.0);	(371940.9,	3769395.0,	48.8, 0.0);
(	371965.9,	3769395.0,	48.5,	0.0);	(371990.9,	3769395.0,	48.1, 0.0);
(	372015.9,	3769395.0,	47.8,	0.0);	(372040.9,	3769395.0,	47.3, 0.0);
(	372065.9,	3769395.0,	47.0,	0.0);	(372090.9,	3769395.0,	46.6, 0.0);
(	372115.9,	3769395.0,	46.3,	0.0);	(372140.9,	3769395.0,	46.0, 0.0);
(	372165.9,	3769395.0,	45.6,	0.0);	(372190.9,	3769395.0,	45.3, 0.0);
(	372215.9,	3769395.0,	45.0,	0.0);	(372240.9,	3769395.0,	44.7, 0.0);
(	372265.9,	3769395.0,	44.5,	0.0);	(372290.9,	3769395.0,	44.1, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(	372315.9,	3769395.0,	43.9,	0.0);	(372340.9,	3769395.0,	43.5,	0.0);
(	372365.9,	3769395.0,	43.3,	0.0);	(371340.9,	3769420.0,	57.4,	0.0);
(	371365.9,	3769420.0,	57.1,	0.0);	(371390.9,	3769420.0,	56.7,	0.0);
(	371415.9,	3769420.0,	56.5,	0.0);	(371440.9,	3769420.0,	55.9,	0.0);
(	371465.9,	3769420.0,	55.6,	0.0);	(371490.9,	3769420.0,	55.2,	0.0);
(	371515.9,	3769420.0,	54.9,	0.0);	(371540.9,	3769420.0,	54.4,	0.0);
(	371565.9,	3769420.0,	54.2,	0.0);	(371590.9,	3769420.0,	53.7,	0.0);
(	371615.9,	3769420.0,	53.6,	0.0);	(371640.9,	3769420.0,	53.0,	0.0);
(	371665.9,	3769420.0,	52.9,	0.0);	(371690.9,	3769420.0,	52.5,	0.0);
(	371715.9,	3769420.0,	52.2,	0.0);	(371740.9,	3769420.0,	51.7,	0.0);
(	371765.9,	3769420.0,	51.5,	0.0);	(371790.9,	3769420.0,	51.0,	0.0);
(	371815.9,	3769420.0,	50.8,	0.0);	(371840.9,	3769420.0,	50.2,	0.0);
(	371865.9,	3769420.0,	50.1,	0.0);	(371890.9,	3769420.0,	49.5,	0.0);
(	371915.9,	3769420.0,	49.3,	0.0);	(371940.9,	3769420.0,	48.7,	0.0);
(	371965.9,	3769420.0,	48.5,	0.0);	(371990.9,	3769420.0,	48.0,	0.0);
(	372015.9,	3769420.0,	47.8,	0.0);	(372040.9,	3769420.0,	47.2,	0.0);
(	372065.9,	3769420.0,	47.1,	0.0);	(372090.9,	3769420.0,	46.5,	0.0);
(	372115.9,	3769420.0,	46.4,	0.0);	(372140.9,	3769420.0,	45.9,	0.0);
(	372165.9,	3769420.0,	45.6,	0.0);	(372190.9,	3769420.0,	45.2,	0.0);
(	372215.9,	3769420.0,	45.1,	0.0);	(372240.9,	3769420.0,	44.7,	0.0);
(	372265.9,	3769420.0,	44.5,	0.0);	(372290.9,	3769420.0,	44.0,	0.0);
(	372315.9,	3769420.0,	44.0,	0.0);	(372340.9,	3769420.0,	43.5,	0.0);
(	372365.9,	3769420.0,	43.3,	0.0);	(371340.9,	3769445.0,	57.5,	0.0);
(	371365.9,	3769445.0,	57.2,	0.0);	(371390.9,	3769445.0,	56.8,	0.0);
(	371415.9,	3769445.0,	56.5,	0.0);	(371440.9,	3769445.0,	56.0,	0.0);
(	371465.9,	3769445.0,	55.7,	0.0);	(371490.9,	3769445.0,	55.2,	0.0);
(	371515.9,	3769445.0,	55.0,	0.0);	(371540.9,	3769445.0,	54.5,	0.0);
(	371565.9,	3769445.0,	54.2,	0.0);	(371590.9,	3769445.0,	53.8,	0.0);
(	371615.9,	3769445.0,	53.6,	0.0);	(371640.9,	3769445.0,	53.2,	0.0);
(	371665.9,	3769445.0,	53.0,	0.0);	(371690.9,	3769445.0,	52.6,	0.0);

```
    ( 371715.9, 3769445.0,      52.3,       0.0);          ( 371740.9, 3769445.0,      51.9,       0.0);
    ( 371765.9, 3769445.0,      51.6,       0.0);          ( 371790.9, 3769445.0,      51.1,       0.0);
    ( 371815.9, 3769445.0,      50.9,       0.0);          ( 371840.9, 3769445.0,      50.5,       0.0);
    ( 371865.9, 3769445.0,      50.1,       0.0);          ( 371890.9, 3769445.0,      49.6,       0.0);
    ( 371915.9, 3769445.0,      49.3,       0.0);          ( 371940.9, 3769445.0,      48.9,       0.0);
    ( 371965.9, 3769445.0,      48.6,       0.0);          ( 371990.9, 3769445.0,      48.1,       0.0);
    ( 372015.9, 3769445.0,      47.8,       0.0);          ( 372040.9, 3769445.0,      47.5,       0.0);
    ( 372065.9, 3769445.0,      47.1,       0.0);          ( 372090.9, 3769445.0,      46.7,       0.0);
    ( 372115.9, 3769445.0,      46.5,       0.0);          ( 372140.9, 3769445.0,      46.0,       0.0);
    ( 372165.9, 3769445.0,      45.7,       0.0);          ( 372190.9, 3769445.0,      45.4,       0.0);
    ( 372215.9, 3769445.0,      45.1,       0.0);          ( 372240.9, 3769445.0,      44.8,       0.0);
    ( 372265.9, 3769445.0,      44.6,       0.0);          ( 372290.9, 3769445.0,      44.2,       0.0);
    ( 372315.9, 3769445.0,      44.0,       0.0);          ( 372340.9, 3769445.0,      43.6,       0.0);
    ( 372365.9, 3769445.0,      43.5,       0.0);          ( 371340.9, 3769470.0,      57.5,       0.0);
    ( 371365.9, 3769470.0,      57.3,       0.0);          ( 371390.9, 3769470.0,      56.7,       0.0);
    ( 371415.9, 3769470.0,      56.5,       0.0);          ( 371440.9, 3769470.0,      56.0,       0.0);
    ( 371465.9, 3769470.0,      55.8,       0.0);          ( 371490.9, 3769470.0,      55.2,       0.0);
    ( 371515.9, 3769470.0,      55.0,       0.0);          ( 371540.9, 3769470.0,      54.5,       0.0);
    ( 371565.9, 3769470.0,      54.3,       0.0);          ( 371590.9, 3769470.0,      53.9,       0.0);
    ( 371615.9, 3769470.0,      53.6,       0.0);          ( 371640.9, 3769470.0,      53.2,       0.0);
    ( 371665.9, 3769470.0,      53.0,       0.0);          ( 371690.9, 3769470.0,      52.5,       0.0);
    ( 371715.9, 3769470.0,      52.4,       0.0);          ( 371740.9, 3769470.0,      51.9,       0.0);
    ( 371765.9, 3769470.0,      51.6,       0.0);          ( 371790.9, 3769470.0,      51.2,       0.0);
    ( 371815.9, 3769470.0,      51.0,       0.0);          ( 371840.9, 3769470.0,      50.4,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05
                                    ***                                                               ***
13:26:49
 **MODELOPTs:
PAGE  23
 CONC                    URBAN ELEV                      NOSTD
HE>ZI


                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                    (X-COORD, Y-COORD, ZELEV, ZFLAG)
                                              (METERS)

    ( 371865.9, 3769470.0,      50.1,       0.0);          ( 371890.9, 3769470.0,      49.7,       0.0);
    ( 371915.9, 3769470.0,      49.5,       0.0);          ( 371940.9, 3769470.0,      48.9,       0.0);
    ( 371965.9, 3769470.0,      48.6,       0.0);          ( 371990.9, 3769470.0,      48.2,       0.0);
    ( 372015.9, 3769470.0,      48.0,       0.0);          ( 372040.9, 3769470.0,      47.4,       0.0);
    ( 372065.9, 3769470.0,      47.1,       0.0);          ( 372090.9, 3769470.0,      46.7,       0.0);
    ( 372115.9, 3769470.0,      46.5,       0.0);          ( 372140.9, 3769470.0,      46.0,       0.0);
```

```
    ( 372165.9, 3769470.0,      45.8,       0.0);         ( 372190.9, 3769470.0,      45.4,       0.0);
    ( 372215.9, 3769470.0,      45.2,       0.0);         ( 372240.9, 3769470.0,      44.8,       0.0);
    ( 372265.9, 3769470.0,      44.6,       0.0);         ( 372290.9, 3769470.0,      44.2,       0.0);
    ( 372315.9, 3769470.0,      44.1,       0.0);         ( 372340.9, 3769470.0,      43.7,       0.0);
    ( 372365.9, 3769470.0,      43.5,       0.0);         ( 371340.9, 3769495.0,      57.6,       0.0);
    ( 371365.9, 3769495.0,      57.3,       0.0);         ( 371390.9, 3769495.0,      57.0,       0.0);
    ( 371415.9, 3769495.0,      56.6,       0.0);         ( 371440.9, 3769495.0,      56.1,       0.0);
    ( 371465.9, 3769495.0,      55.8,       0.0);         ( 371490.9, 3769495.0,      55.4,       0.0);
    ( 371515.9, 3769495.0,      55.1,       0.0);         ( 371540.9, 3769495.0,      54.6,       0.0);
    ( 371565.9, 3769495.0,      54.4,       0.0);         ( 371590.9, 3769495.0,      54.0,       0.0);
    ( 371615.9, 3769495.0,      53.8,       0.0);         ( 371640.9, 3769495.0,      53.4,       0.0);
    ( 371665.9, 3769495.0,      53.2,       0.0);         ( 371690.9, 3769495.0,      52.8,       0.0);
    ( 371715.9, 3769495.0,      52.5,       0.0);         ( 371740.9, 3769495.0,      52.1,       0.0);
    ( 371765.9, 3769495.0,      51.8,       0.0);         ( 371790.9, 3769495.0,      51.3,       0.0);
    ( 371815.9, 3769495.0,      51.0,       0.0);         ( 371840.9, 3769495.0,      50.6,       0.0);
    ( 371865.9, 3769495.0,      50.3,       0.0);         ( 371890.9, 3769495.0,      49.8,       0.0);
    ( 371915.9, 3769495.0,      49.5,       0.0);         ( 371940.9, 3769495.0,      49.1,       0.0);
    ( 371965.9, 3769495.0,      48.8,       0.0);         ( 371990.9, 3769495.0,      48.3,       0.0);
    ( 372015.9, 3769495.0,      48.0,       0.0);         ( 372040.9, 3769495.0,      47.6,       0.0);
    ( 372065.9, 3769495.0,      47.3,       0.0);         ( 372090.9, 3769495.0,      46.8,       0.0);
    ( 372115.9, 3769495.0,      46.5,       0.0);         ( 372140.9, 3769495.0,      46.1,       0.0);
    ( 372165.9, 3769495.0,      45.9,       0.0);         ( 372190.9, 3769495.0,      45.5,       0.0);
    ( 372215.9, 3769495.0,      45.3,       0.0);         ( 372240.9, 3769495.0,      45.0,       0.0);
    ( 372265.9, 3769495.0,      44.7,       0.0);         ( 372290.9, 3769495.0,      44.5,       0.0);
    ( 372315.9, 3769495.0,      44.2,       0.0);         ( 372340.9, 3769495.0,      43.8,       0.0);
    ( 372365.9, 3769495.0,      43.7,       0.0);         ( 371340.9, 3769520.0,      57.5,       0.0);
    ( 371365.9, 3769520.0,      57.4,       0.0);         ( 371390.9, 3769520.0,      56.9,       0.0);
    ( 371415.9, 3769520.0,      56.6,       0.0);         ( 371440.9, 3769520.0,      56.2,       0.0);
    ( 371465.9, 3769520.0,      56.0,       0.0);         ( 371490.9, 3769520.0,      55.4,       0.0);
    ( 371515.9, 3769520.0,      55.1,       0.0);         ( 371540.9, 3769520.0,      54.7,       0.0);
    ( 371565.9, 3769520.0,      54.5,       0.0);         ( 371590.9, 3769520.0,      54.0,       0.0);
    ( 371615.9, 3769520.0,      54.0,       0.0);         ( 371640.9, 3769520.0,      53.5,       0.0);
    ( 371665.9, 3769520.0,      53.3,       0.0);         ( 371690.9, 3769520.0,      52.7,       0.0);
    ( 371715.9, 3769520.0,      52.6,       0.0);         ( 371740.9, 3769520.0,      52.0,       0.0);
    ( 371765.9, 3769520.0,      51.8,       0.0);         ( 371790.9, 3769520.0,      51.3,       0.0);
    ( 371815.9, 3769520.0,      51.1,       0.0);         ( 371840.9, 3769520.0,      50.5,       0.0);
    ( 371865.9, 3769520.0,      50.3,       0.0);         ( 371890.9, 3769520.0,      49.8,       0.0);
    ( 371915.9, 3769520.0,      49.6,       0.0);         ( 371940.9, 3769520.0,      49.0,       0.0);
    ( 371965.9, 3769520.0,      48.8,       0.0);         ( 371990.9, 3769520.0,      48.3,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05                            ***                                                               ***
13:26:49
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CONC URBAN ELEV NOSTD
HE>ZI

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(372015.9,	3769520.0,	48.1,	0.0);	(372040.9,	3769520.0,	47.5,	0.0);
(372065.9,	3769520.0,	47.3,	0.0);	(372090.9,	3769520.0,	46.9,	0.0);
(372115.9,	3769520.0,	46.6,	0.0);	(372140.9,	3769520.0,	46.2,	0.0);
(372165.9,	3769520.0,	46.0,	0.0);	(372190.9,	3769520.0,	45.5,	0.0);
(372215.9,	3769520.0,	45.3,	0.0);	(372240.9,	3769520.0,	45.0,	0.0);
(372265.9,	3769520.0,	44.8,	0.0);	(372290.9,	3769520.0,	44.4,	0.0);
(372315.9,	3769520.0,	44.3,	0.0);	(372340.9,	3769520.0,	43.9,	0.0);
(372365.9,	3769520.0,	43.8,	0.0);	(371340.9,	3769545.0,	57.8,	0.0);
(371365.9,	3769545.0,	57.5,	0.0);	(371390.9,	3769545.0,	57.1,	0.0);
(371415.9,	3769545.0,	56.8,	0.0);	(371440.9,	3769545.0,	56.3,	0.0);
(371465.9,	3769545.0,	56.0,	0.0);	(371490.9,	3769545.0,	55.6,	0.0);
(371515.9,	3769545.0,	55.3,	0.0);	(371540.9,	3769545.0,	54.9,	0.0);
(371565.9,	3769545.0,	54.8,	0.0);	(371590.9,	3769545.0,	54.3,	0.0);
(371615.9,	3769545.0,	54.0,	0.0);	(371640.9,	3769545.0,	53.6,	0.0);
(371665.9,	3769545.0,	53.4,	0.0);	(371690.9,	3769545.0,	53.0,	0.0);
(371715.9,	3769545.0,	52.7,	0.0);	(371740.9,	3769545.0,	52.2,	0.0);
(371765.9,	3769545.0,	52.0,	0.0);	(371790.9,	3769545.0,	51.5,	0.0);
(371815.9,	3769545.0,	51.2,	0.0);	(371840.9,	3769545.0,	50.7,	0.0);
(371865.9,	3769545.0,	50.5,	0.0);	(371890.9,	3769545.0,	50.0,	0.0);
(371915.9,	3769545.0,	49.7,	0.0);	(371940.9,	3769545.0,	49.2,	0.0);
(371965.9,	3769545.0,	49.0,	0.0);	(371990.9,	3769545.0,	48.5,	0.0);
(372015.9,	3769545.0,	48.2,	0.0);	(372040.9,	3769545.0,	47.7,	0.0);
(372065.9,	3769545.0,	47.5,	0.0);	(372090.9,	3769545.0,	47.0,	0.0);
(372115.9,	3769545.0,	46.7,	0.0);	(372140.9,	3769545.0,	46.3,	0.0);
(372165.9,	3769545.0,	46.0,	0.0);	(372190.9,	3769545.0,	45.6,	0.0);
(372215.9,	3769545.0,	45.5,	0.0);	(372240.9,	3769545.0,	45.1,	0.0);
(372265.9,	3769545.0,	45.0,	0.0);	(372290.9,	3769545.0,	44.6,	0.0);
(372315.9,	3769545.0,	44.4,	0.0);	(372340.9,	3769545.0,	44.0,	0.0);
(372365.9,	3769545.0,	43.9,	0.0);	(371340.9,	3769570.0,	57.9,	0.0);
(371365.9,	3769570.0,	57.6,	0.0);	(371390.9,	3769570.0,	57.2,	0.0);
(371415.9,	3769570.0,	57.0,	0.0);	(371440.9,	3769570.0,	56.5,	0.0);
(371465.9,	3769570.0,	56.3,	0.0);	(371490.9,	3769570.0,	55.7,	0.0);
(371515.9,	3769570.0,	55.5,	0.0);	(371540.9,	3769570.0,	55.0,	0.0);
(371565.9,	3769570.0,	54.9,	0.0);	(371590.9,	3769570.0,	54.4,	0.0);

(371615.9, 3769570.0, 54.1, 0.0); (371640.9, 3769570.0, 53.7, 0.0);
(371665.9, 3769570.0, 53.5, 0.0); (371690.9, 3769570.0, 53.0, 0.0);
(371715.9, 3769570.0, 52.8, 0.0); (371740.9, 3769570.0, 52.2, 0.0);
(371765.9, 3769570.0, 52.1, 0.0); (371790.9, 3769570.0, 51.5, 0.0);
(371815.9, 3769570.0, 51.3, 0.0); (371840.9, 3769570.0, 50.7, 0.0);
(371865.9, 3769570.0, 50.6, 0.0); (371890.9, 3769570.0, 50.0, 0.0);
(371915.9, 3769570.0, 49.8, 0.0); (371940.9, 3769570.0, 49.2, 0.0);
(371965.9, 3769570.0, 49.0, 0.0); (371990.9, 3769570.0, 48.5, 0.0);
(372015.9, 3769570.0, 48.3, 0.0); (372040.9, 3769570.0, 47.7, 0.0);
(372065.9, 3769570.0, 47.5, 0.0); (372090.9, 3769570.0, 47.0, 0.0);
(372115.9, 3769570.0, 46.8, 0.0); (372140.9, 3769570.0, 46.2, 0.0);

**MODELOPTs:

CONC URBAN ELEV NOSTD HE>ZI

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(372165.9, 3769570.0, 46.1, 0.0); (372190.9, 3769570.0, 45.5, 0.0);
(372215.9, 3769570.0, 45.5, 0.0); (372240.9, 3769570.0, 45.0, 0.0);
(372265.9, 3769570.0, 45.0, 0.0); (372290.9, 3769570.0, 44.5, 0.0);
(372315.9, 3769570.0, 44.5, 0.0); (372340.9, 3769570.0, 44.0, 0.0);
(372365.9, 3769570.0, 44.0, 0.0); (371340.9, 3769595.0, 58.1, 0.0);
(371365.9, 3769595.0, 57.8, 0.0); (371390.9, 3769595.0, 57.4, 0.0);
(371415.9, 3769595.0, 57.1, 0.0); (371440.9, 3769595.0, 56.6, 0.0);
(371465.9, 3769595.0, 56.5, 0.0); (371490.9, 3769595.0, 56.0, 0.0);
(371515.9, 3769595.0, 55.8, 0.0); (371540.9, 3769595.0, 55.3, 0.0);
(371565.9, 3769595.0, 55.1, 0.0); (371590.9, 3769595.0, 54.6, 0.0);
(371615.9, 3769595.0, 54.4, 0.0); (371640.9, 3769595.0, 54.0, 0.0);
(371665.9, 3769595.0, 53.6, 0.0); (371690.9, 3769595.0, 53.1, 0.0);
(371715.9, 3769595.0, 53.0, 0.0); (371740.9, 3769595.0, 52.5, 0.0);
(371765.9, 3769595.0, 52.2, 0.0); (371790.9, 3769595.0, 51.7, 0.0);
(371815.9, 3769595.0, 51.5, 0.0); (371840.9, 3769595.0, 51.0, 0.0);
(371865.9, 3769595.0, 50.6, 0.0); (371890.9, 3769595.0, 50.1, 0.0);
(371915.9, 3769595.0, 49.9, 0.0); (371940.9, 3769595.0, 49.5, 0.0);
(371965.9, 3769595.0, 49.1, 0.0); (371990.9, 3769595.0, 48.6, 0.0);
(372015.9, 3769595.0, 48.3, 0.0); (372040.9, 3769595.0, 48.0, 0.0);

```
    ( 372065.9, 3769595.0,      47.6,       0.0);          ( 372090.9, 3769595.0,      47.1,       0.0);
    ( 372115.9, 3769595.0,      46.9,       0.0);          ( 372140.9, 3769595.0,      46.5,       0.0);
    ( 372165.9, 3769595.0,      46.2,       0.0);          ( 372190.9, 3769595.0,      45.7,       0.0);
    ( 372215.9, 3769595.0,      45.5,       0.0);          ( 372240.9, 3769595.0,      45.3,       0.0);
    ( 372265.9, 3769595.0,      45.1,       0.0);          ( 372290.9, 3769595.0,      44.8,       0.0);
    ( 372315.9, 3769595.0,      44.6,       0.0);          ( 372340.9, 3769595.0,      44.3,       0.0);
    ( 372365.9, 3769595.0,      44.1,       0.0);          ( 372390.9, 3769170.0,      42.0,       0.0);
    ( 372415.9, 3769170.0,      41.8,       0.0);          ( 372390.9, 3769195.0,      42.2,       0.0);
    ( 372415.9, 3769195.0,      42.0,       0.0);          ( 372324.6, 3768512.5,      39.9,       0.0);
    ( 372240.6, 3768308.5,      39.1,       0.0);          ( 373073.1, 3769250.0,      38.1,       0.0);
    ( 370888.2, 3768917.0,      72.3,       0.0);          ( 373073.8, 3769299.8,      38.3,       0.0);
    ( 373076.3, 3768939.2,      36.7,       0.0);          ( 372601.4, 3768361.2,      34.0,       0.0);
    ( 372301.8, 3768327.5,      38.3,       0.0);          ( 371747.2, 3768345.0,      49.2,       0.0);
    ( 372389.2, 3769329.0,      43.0,       0.0);          ( 371296.7, 3768889.2,      58.9,       0.0);
    ( 372960.0, 3768868.8,      36.7,       0.0);          ( 371735.9, 3768977.8,      51.1,       0.0);
    ( 371738.7, 3768975.0,      51.1,       0.0);          ( 371763.7, 3768974.5,      50.7,       0.0);
    ( 371788.6, 3768974.2,      50.5,       0.0);          ( 371791.5, 3768974.0,      50.3,       0.0);

    ( 371794.1, 3768976.8,      50.3,       0.0);          ( 371794.5, 3769001.8,      50.2,       0.0);
    ( 371794.6, 3769008.0,      50.2,       0.0);          ( 371769.6, 3769008.5,      50.7,       0.0);
    ( 371744.6, 3769009.0,      51.0,       0.0);          ( 371736.5, 3769009.0,      51.1,       0.0);
    ( 371736.0, 3768984.0,      51.1,       0.0);          ( 371735.9, 3768977.8,      51.1,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05
                                    ***                                                               ***
13:26:49
 **MODELOPTs:
PAGE  26
 CONC                    URBAN ELEV                        NOSTD
HE>ZI

                    * SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
                         LESS THAN 1.0 METER OR 3*ZLB IN DISTANCE, OR WITHIN OPEN PIT SOURCE

                          SOURCE         - - RECEPTOR LOCATION - -         DISTANCE
                            ID           XR (METERS)   YR (METERS)         (METERS)
                        - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

                          SRC4              371740.9     3768970.0            25.22
                          SRC4              371765.9     3768970.0            21.84
                          SRC4              371790.9     3768970.0            39.59
                          SRC4              371740.9     3769020.0            34.08
                          SRC4              371765.9     3769020.0            31.65
```

SRC4	371735.9	3768977.8	23.92
SRC4	371738.7	3768975.0	23.22
SRC4	371763.7	3768974.5	16.81
SRC4	371788.6	3768974.2	35.58
SRC4	371769.6	3769008.5	22.83
SRC4	371744.6	3769009.0	22.67
SRC4	371736.5	3769009.0	27.85
SRC4	371736.0	3768984.0	21.35
SRC4	371735.9	3768977.8	23.92
SRC3	371715.9	3768970.0	37.66
SRC3	371740.9	3768970.0	21.16
SRC3	371765.9	3768970.0	26.97
SRC3	371715.9	3768995.0	32.30
SRC3	371740.9	3769020.0	30.78
SRC3	371765.9	3769020.0	35.03
SRC3	371735.9	3768977.8	17.08
SRC3	371738.7	3768975.0	17.57
SRC3	371763.7	3768974.5	22.16
SRC3	371769.6	3769008.5	28.60
SRC3	371744.6	3769009.0	19.27
SRC3	371736.5	3769009.0	22.13
SRC3	371736.0	3768984.0	13.22
SRC3	371735.9	3768977.8	17.08
SRC5	371740.9	3768970.0	35.44
SRC5	371765.9	3768970.0	20.03
SRC5	371790.9	3768970.0	28.23
SRC5	371740.9	3769020.0	42.50
SRC5	371765.9	3769020.0	30.84
SRC5	371790.9	3769020.0	36.70
SRC5	371735.9	3768977.8	36.53
SRC5	371738.7	3768975.0	34.99
SRC5	371763.7	3768974.5	16.49
SRC5	371788.6	3768974.2	23.69
SRC5	371791.5	3768974.0	26.08
SRC5	371794.1	3768976.8	26.82

**MODELOPTs:

CONC URBAN ELEV NOSTD HE>ZI

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER OR 3*ZLB IN DISTANCE, OR WITHIN OPEN PIT SOURCE

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
SRC5	371794.5	3769001.8	26.97
SRC5	371794.6	3769008.0	30.40
SRC5	371769.6	3769008.5	19.02
SRC5	371744.6	3769009.0	32.40
SRC5	371736.5	3769009.0	39.22
SRC5	371736.0	3768984.0	34.90
SRC5	371735.9	3768977.8	36.53
SRC6	371765.9	3768970.0	23.54
SRC6	371790.9	3768970.0	22.80
SRC6	371765.9	3769020.0	33.23
SRC6	371790.9	3769020.0	32.71
SRC6	371763.7	3768974.5	21.52
SRC6	371788.6	3768974.2	17.98
SRC6	371791.5	3768974.0	19.83
SRC6	371794.1	3768976.8	19.69
SRC6	371794.5	3769001.8	19.71
SRC6	371794.6	3769008.0	24.16
SRC6	371769.6	3769008.5	21.23
SRC6	371744.6	3769009.0	39.60
SRC7	371765.9	3768945.0	37.98
SRC7	371740.9	3768970.0	18.51
SRC7	371765.9	3768970.0	15.57
SRC7	371790.9	3768970.0	37.32
SRC7	371735.9	3768977.8	19.86
SRC7	371738.7	3768975.0	17.97
SRC7	371763.7	3768974.5	10.82
SRC7	371788.6	3768974.2	34.00
SRC7	371769.6	3769008.5	30.52
SRC7	371744.6	3769009.0	29.54
SRC7	371736.5	3769009.0	33.39
SRC7	371736.0	3768984.0	19.54
SRC7	371735.9	3768977.8	19.86
SRC8	371765.9	3768945.0	38.16
SRC8	371790.9	3768945.0	38.54
SRC8	371740.9	3768970.0	38.58
SRC8	371765.9	3768970.0	16.38

SRC8	371790.9	3768970.0	17.26
SRC8	371790.9	3769020.0	40.90
SRC8	371763.7	3768974.5	15.68
SRC8	371788.6	3768974.2	12.88

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER OR 3*ZLB IN DISTANCE, OR WITHIN OPEN PIT SOURCE

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
SRC8	371791.5	3768974.0	15.46
SRC8	371794.1	3768976.8	16.89
SRC8	371794.5	3769001.8	26.45
SRC8	371794.6	3769008.0	31.59
SRC8	371769.6	3769008.5	28.45

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

1 1 1

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

METEOROLOGICAL DATA PROCESSED BETWEEN START DATE: 1981 1 1 1
AND END DATE: 1981 12 31 24

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

STABILITY	WIND SPEED CATEGORY					
CATEGORY	1	2	3	4	5	6
A	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
B	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
C	.20000E+00	.20000E+00	.20000E+00	.20000E+00	.20000E+00	.20000E+00
D	.25000E+00	.25000E+00	.25000E+00	.25000E+00	.25000E+00	.25000E+00
E	.30000E+00	.30000E+00	.30000E+00	.30000E+00	.30000E+00	.30000E+00
F	.30000E+00	.30000E+00	.30000E+00	.30000E+00	.30000E+00	.30000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY	WIND SPEED CATEGORY					
CATEGORY	1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

CONC URBAN ELEV NOSTD
HE>ZI

*** THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

FILE: I:\Project\9000s\9195\Air Modeling\WESTLA.ASC
FORMAT: (4I2,2F9.4,F6.1,I2,2F7.1,f9.4,f10.1,f8.4,i4,f7.2)
SURFACE STATION NO.: 52158 UPPER AIR STATION NO.: 91919
NAME: UNKNOWN NAME: UNKNOWN
YEAR: 1981 YEAR: 1981

YR	MN	DY	HR	FLOW VECTOR	SPEED (M/S)	TEMP (K)	STAB CLASS	MIXING HEIGHT (M) RURAL	MIXING HEIGHT (M) URBAN	USTAR (M/S)	M-O LENGTH (M)	Z-0 (M)	IPCODE	PRATE (mm/HR)
81	01	01	01	67.3	1.00	285.9	7	387.1	152.0	0.0000	0.0	0.0000	0	0.00
81	01	01	02	79.9	1.00	286.5	7	397.2	152.0	0.0000	0.0	0.0000	0	0.00
81	01	01	03	62.5	1.00	285.9	6	407.3	152.0	0.0000	0.0	0.0000	0	0.00
81	01	01	04	98.5	1.00	285.9	5	417.4	152.0	0.0000	0.0	0.0000	0	0.00
81	01	01	05	354.0	1.00	285.4	4	427.4	427.4	0.0000	0.0	0.0000	0	0.00
81	01	01	06	139.5	1.00	283.7	5	437.5	152.0	0.0000	0.0	0.0000	0	0.00
81	01	01	07	94.5	1.00	283.7	6	447.5	152.0	0.0000	0.0	0.0000	0	0.00
81	01	01	08	112.2	1.00	284.3	5	70.1	201.5	0.0000	0.0	0.0000	0	0.00
81	01	01	09	186.5	1.00	287.0	4	144.7	254.3	0.0000	0.0	0.0000	0	0.00
81	01	01	10	256.6	1.00	291.5	3	219.4	307.0	0.0000	0.0	0.0000	0	0.00
81	01	01	11	314.1	1.00	294.8	2	294.0	359.8	0.0000	0.0	0.0000	0	0.00
81	01	01	12	35.6	2.68	290.9	3	368.7	412.5	0.0000	0.0	0.0000	0	0.00
81	01	01	13	64.7	2.24	289.8	3	443.3	465.3	0.0000	0.0	0.0000	0	0.00
81	01	01	14	34.2	2.24	290.4	3	518.0	518.0	0.0000	0.0	0.0000	0	0.00
81	01	01	15	44.8	1.34	290.4	2	518.0	518.0	0.0000	0.0	0.0000	0	0.00
81	01	01	16	53.2	1.79	289.3	3	518.0	518.0	0.0000	0.0	0.0000	0	0.00
81	01	01	17	42.6	0.00	288.1	4	518.0	518.0	0.0000	0.0	0.0000	0	0.00
81	01	01	18	30.1	1.00	287.6	5	518.0	468.5	0.0000	0.0	0.0000	0	0.00
81	01	01	19	20.5	0.00	287.0	6	518.0	425.9	0.0000	0.0	0.0000	0	0.00
81	01	01	20	55.7	1.00	287.0	7	518.0	383.4	0.0000	0.0	0.0000	0	0.00
81	01	01	21	43.6	0.00	287.6	7	518.0	340.8	0.0000	0.0	0.0000	0	0.00

```
 81 01 01 22  137.0   1.00  287.0   7     518.0   298.2    0.0000       0.0  0.0000   0   0.00
 81 01 01 23   90.7   1.00  286.5   7     518.0   255.6    0.0000       0.0  0.0000   0   0.00
 81 01 01 24   67.2   1.00  286.5   6     518.0   213.0    0.0000       0.0  0.0000   0   0.00


 *** NOTES:  STABILITY CLASS 1=A, 2=B, 3=C, 4=D, 5=E AND 6=F.
             FLOW VECTOR IS DIRECTION TOWARD WHICH WIND IS BLOWING.
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                    ***
07/07/05
                                    ***                                                         ***
13:26:49
 **MODELOPTs:
PAGE  31
 CONC                    URBAN ELEV                        NOSTD
HE>ZI

                          *** THE ANNUAL (   1 YRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                              INCLUDING SOURCE(S):      SRC4    , SRC3    , SRC5    , SRC6    , SRC7    , SRC8    ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)   Y-COORD (M)        CONC
 - - -
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372090.91	3768570.00	18.67752	372115.91	3768570.00	19.27715
372140.91	3768570.00	19.39423	372165.91	3768570.00	19.13923
372190.91	3768570.00	18.44415	372215.91	3768570.00	17.56170
372240.91	3768570.00	16.48386	372265.91	3768570.00	15.40858
372290.91	3768570.00	14.32902	372315.91	3768570.00	13.37905
372340.91	3768570.00	12.48957	372365.91	3768570.00	11.73971
371340.91	3768595.00	4.93400	371365.91	3768595.00	5.01686
371390.91	3768595.00	4.18602	371415.91	3768595.00	4.27462
371440.91	3768595.00	4.31971	371465.91	3768595.00	4.30523
371490.91	3768595.00	4.20620	371515.91	3768595.00	4.00612
371540.91	3768595.00	3.69910	371565.91	3768595.00	3.33609
371590.91	3768595.00	3.04970	371615.91	3768595.00	3.09189
371640.91	3768595.00	3.76118	371665.91	3768595.00	5.21976
371690.91	3768595.00	7.23936	371715.91	3768595.00	9.39054
371740.91	3768595.00	11.19099	371765.91	3768595.00	12.49679
371790.91	3768595.00	13.27488	371815.91	3768595.00	13.71512
371840.91	3768595.00	14.06872	371865.91	3768595.00	14.58920
371890.91	3768595.00	15.15360	371915.91	3768595.00	15.64425
371940.91	3768595.00	15.95507	371965.91	3768595.00	16.41013
371990.91	3768595.00	17.08921	372015.91	3768595.00	18.15507
372040.91	3768595.00	19.32413	372065.91	3768595.00	20.48609
372090.91	3768595.00	21.23015	372115.91	3768595.00	21.50851
372140.91	3768595.00	21.17739	372165.91	3768595.00	20.43766
372190.91	3768595.00	19.32555	372215.91	3768595.00	18.08874
372240.91	3768595.00	16.78828	372265.91	3768595.00	15.59229

CONC URBAN ELEV NOSTD HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC

372290.91	3768595.00	14.45433	372315.91	3768595.00	13.49154
372340.91	3768595.00	12.62853	372365.91	3768595.00	11.90049
371340.91	3768620.00	5.40270	371365.91	3768620.00	5.60825
371390.91	3768620.00	4.57009	371415.91	3768620.00	4.68767
371440.91	3768620.00	4.77738	371465.91	3768620.00	4.82415
371490.91	3768620.00	4.77937	371515.91	3768620.00	4.62825
371540.91	3768620.00	4.34301	371565.91	3768620.00	3.94872
371590.91	3768620.00	3.55016	371615.91	3768620.00	3.40824
371640.91	3768620.00	3.89877	371665.91	3768620.00	5.33945
371690.91	3768620.00	7.60491	371715.91	3768620.00	10.14162
371740.91	3768620.00	12.31340	371765.91	3768620.00	13.89928
371790.91	3768620.00	14.80386	371815.91	3768620.00	15.31242
371840.91	3768620.00	15.75555	371865.91	3768620.00	16.40024
371890.91	3768620.00	17.07320	371915.91	3768620.00	17.59942
371940.91	3768620.00	17.98409	371965.91	3768620.00	18.70373
371990.91	3768620.00	19.72616	372015.91	3768620.00	21.14030
372040.91	3768620.00	22.47702	372065.91	3768620.00	23.56441
372090.91	3768620.00	23.91216	372115.91	3768620.00	23.61634
372140.91	3768620.00	22.68470	372165.91	3768620.00	21.42437
372190.91	3768620.00	19.87782	372215.91	3768620.00	18.42009
372240.91	3768620.00	16.97886	372265.91	3768620.00	15.73551
372290.91	3768620.00	14.59782	372315.91	3768620.00	13.67048
372340.91	3768620.00	12.83089	372365.91	3768620.00	12.12588
371340.91	3768645.00	6.04377	371365.91	3768645.00	6.16795
371390.91	3768645.00	5.04020	371415.91	3768645.00	5.15747
371440.91	3768645.00	5.28298	371465.91	3768645.00	5.39123
371490.91	3768645.00	5.42195	371515.91	3768645.00	5.33898
371540.91	3768645.00	5.10163	371565.91	3768645.00	4.70987
371590.91	3768645.00	4.22412	371615.91	3768645.00	3.88393
371640.91	3768645.00	4.13101	371665.91	3768645.00	5.47951
371690.91	3768645.00	7.97228	371715.91	3768645.00	10.98599
371740.91	3768645.00	13.64679	371765.91	3768645.00	15.56357
371790.91	3768645.00	16.63428	371815.91	3768645.00	17.22589
371840.91	3768645.00	17.79002	371865.91	3768645.00	18.61460
371890.91	3768645.00	19.38429	371915.91	3768645.00	19.98663
371940.91	3768645.00	20.62623	371965.91	3768645.00	21.74981
371990.91	3768645.00	23.23694	372015.91	3768645.00	24.95412
372040.91	3768645.00	26.29762	372065.91	3768645.00	26.87866
372090.91	3768645.00	26.50261	372115.91	3768645.00	25.47030
372140.91	3768645.00	23.87339	372165.91	3768645.00	22.07993

CONC URBAN ELEV NOSTD
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*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372190.91	3768645.00	20.26703	372215.91	3768645.00	18.64050
372240.91	3768645.00	17.16551	372265.91	3768645.00	15.94701
372290.91	3768645.00	14.85260	372315.91	3768645.00	13.93858
372340.91	3768645.00	13.12505	372365.91	3768645.00	12.42573
371340.91	3768670.00	7.11708	371365.91	3768670.00	6.99199
371390.91	3768670.00	5.65753	371415.91	3768670.00	5.74035
371440.91	3768670.00	5.86653	371465.91	3768670.00	6.02662
371490.91	3768670.00	6.13329	371515.91	3768670.00	6.14654
371540.91	3768670.00	5.98582	371565.91	3768670.00	5.63593
371590.91	3768670.00	5.10276	371615.91	3768670.00	4.57116
371640.91	3768670.00	4.52164	371665.91	3768670.00	5.66787
371690.91	3768670.00	8.33975	371715.91	3768670.00	11.91129
371740.91	3768670.00	15.18645	371765.91	3768670.00	17.55781
371790.91	3768670.00	18.80983	371815.91	3768670.00	19.54875
371840.91	3768670.00	20.28077	371865.91	3768670.00	21.34541
371890.91	3768670.00	22.17857	371915.91	3768670.00	22.99606
371940.91	3768670.00	24.00881	371965.91	3768670.00	25.75993
371990.91	3768670.00	27.69434	372015.91	3768670.00	29.50137
372040.91	3768670.00	30.28942	372065.91	3768670.00	30.06001
372090.91	3768670.00	28.70300	372115.91	3768670.00	26.81013
372140.91	3768670.00	24.56529	372165.91	3768670.00	22.47299
372190.91	3768670.00	20.47805	372215.91	3768670.00	18.87797
372240.91	3768670.00	17.43254	372265.91	3768670.00	16.25560
372290.91	3768670.00	15.17565	372315.91	3768670.00	14.30279
372340.91	3768670.00	13.46700	372365.91	3768670.00	12.75023
371340.91	3768695.00	8.31518	371365.91	3768695.00	8.21405
371390.91	3768695.00	6.51457	371415.91	3768695.00	6.52646
371440.91	3768695.00	6.61007	371465.91	3768695.00	6.76757
371490.91	3768695.00	6.94394	371515.91	3768695.00	7.06018

371540.91	3768695.00	7.01225	371565.91	3768695.00	6.74723
371590.91	3768695.00	6.21640	371615.91	3768695.00	5.55015
371640.91	3768695.00	5.15789	371665.91	3768695.00	5.95644
371690.91	3768695.00	8.69915	371715.91	3768695.00	12.90333
371740.91	3768695.00	17.02197	371765.91	3768695.00	19.99084
371790.91	3768695.00	21.53257	371815.91	3768695.00	22.39749
371840.91	3768695.00	23.41398	371865.91	3768695.00	24.75089
371890.91	3768695.00	25.78363	371915.91	3768695.00	26.91955
371940.91	3768695.00	28.60040	371965.91	3768695.00	31.08957
371990.91	3768695.00	33.32111	372015.91	3768695.00	34.64789
372040.91	3768695.00	34.35229	372065.91	3768695.00	32.83650

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372090.91	3768695.00	30.34460	372115.91	3768695.00	27.68658
372140.91	3768695.00	25.03845	372165.91	3768695.00	22.77971
372190.91	3768695.00	20.83170	372215.91	3768695.00	19.24580
372240.91	3768695.00	17.86381	372265.91	3768695.00	16.69210
372290.91	3768695.00	15.62687	372315.91	3768695.00	14.70262
372340.91	3768695.00	13.83753	372365.91	3768695.00	13.06089
371340.91	3768720.00	9.59201	371365.91	3768720.00	7.77141
371390.91	3768720.00	7.69504	371415.91	3768720.00	7.63601
371440.91	3768720.00	7.62186	371465.91	3768720.00	7.71418
371490.91	3768720.00	7.89021	371515.91	3768720.00	8.10338
371540.91	3768720.00	8.19116	371565.91	3768720.00	8.06526
371590.91	3768720.00	7.60633	371615.91	3768720.00	6.87774
371640.91	3768720.00	6.15767	371665.91	3768720.00	6.45117
371690.91	3768720.00	9.07185	371715.91	3768720.00	14.01413

371740.91	3768720.00	19.17307	371765.91	3768720.00	22.97534
371790.91	3768720.00	24.87103	371815.91	3768720.00	25.99976
371840.91	3768720.00	27.41494	371865.91	3768720.00	29.06697
371890.91	3768720.00	30.32328	371915.91	3768720.00	32.17479
371940.91	3768720.00	34.84113	371965.91	3768720.00	38.03185
371990.91	3768720.00	39.79452	372015.91	3768720.00	39.76727
372040.91	3768720.00	37.77121	372065.91	3768720.00	34.73307
372090.91	3768720.00	31.29870	372115.91	3768720.00	28.15399
372140.91	3768720.00	25.39500	372165.91	3768720.00	23.16344
372190.91	3768720.00	21.25872	372215.91	3768720.00	19.75799
372240.91	3768720.00	18.35724	372265.91	3768720.00	17.18253
372290.91	3768720.00	16.04242	372315.91	3768720.00	15.09219
372340.91	3768720.00	14.15751	372365.91	3768720.00	13.34790
371340.91	3768745.00	11.07710	371365.91	3768745.00	9.26231
371390.91	3768745.00	9.24566	371415.91	3768745.00	9.17781
371440.91	3768745.00	9.08772	371465.91	3768745.00	9.05603
371490.91	3768745.00	9.13785	371515.91	3768745.00	9.35120
371540.91	3768745.00	9.57363	371565.91	3768745.00	9.63450
371590.91	3768745.00	9.34455	371615.91	3768745.00	8.63225
371640.91	3768745.00	7.65117	371665.91	3768745.00	7.33480
371690.91	3768745.00	9.53680	371715.91	3768745.00	15.19156
371740.91	3768745.00	21.86376	371765.91	3768745.00	26.75894
371790.91	3768745.00	29.12070	371815.91	3768745.00	30.57449
371840.91	3768745.00	32.64898	371865.91	3768745.00	34.66967
371890.91	3768745.00	36.49765	371915.91	3768745.00	39.63046
371940.91	3768745.00	43.56158	371965.91	3768745.00	46.49353

**MODELOPTs:

CONC URBAN ELEV NOSTD HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC

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CONC URBAN ELEV NOSTD
HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371890.91	3768795.00	58.67432	371915.91	3768795.00	65.33839
371940.91	3768795.00	67.27020	371965.91	3768795.00	63.32224
371990.91	3768795.00	55.90467	372015.91	3768795.00	48.58451
372040.91	3768795.00	42.34607	372065.91	3768795.00	37.52625
372090.91	3768795.00	33.67220	372115.91	3768795.00	30.55203
372140.91	3768795.00	27.83938	372165.91	3768795.00	25.50273
372190.91	3768795.00	23.42522	372215.91	3768795.00	21.63856
372240.91	3768795.00	20.05025	372265.91	3768795.00	18.70780
372290.91	3768795.00	17.53814	372315.91	3768795.00	16.55354
372340.91	3768795.00	15.67490	372365.91	3768795.00	14.95938
371340.91	3768820.00	13.96653	371365.91	3768820.00	14.70409
371390.91	3768820.00	15.45284	371415.91	3768820.00	16.19406
371440.91	3768820.00	16.83380	371465.91	3768820.00	17.31197
371490.91	3768820.00	17.52237	371515.91	3768820.00	17.49512
371540.91	3768820.00	17.30702	371565.91	3768820.00	17.29976
371590.91	3768820.00	17.57745	371615.91	3768820.00	17.76036
371640.91	3768820.00	17.04303	371665.91	3768820.00	15.34041
371690.91	3768820.00	14.07984	371715.91	3768820.00	19.60727
371740.91	3768820.00	33.94360	371765.91	3768820.00	46.43556
371790.91	3768820.00	51.80251	371815.91	3768820.00	57.10080
371840.91	3768820.00	63.08897	371865.91	3768820.00	69.69578
371890.91	3768820.00	78.77815	371915.91	3768820.00	83.42635
371940.91	3768820.00	78.05334	371965.91	3768820.00	67.98222
371990.91	3768820.00	57.70264	372015.91	3768820.00	49.86041
372040.91	3768820.00	43.70637	372065.91	3768820.00	39.06760
372090.91	3768820.00	35.05563	372115.91	3768820.00	31.77371
372140.91	3768820.00	28.80948	372165.91	3768820.00	26.38106

372190.91	3768820.00	24.22249	372215.91	3768820.00	22.52188
372240.91	3768820.00	21.02835	372265.91	3768820.00	19.83663
372290.91	3768820.00	18.75775	372315.91	3768820.00	17.89911
372340.91	3768820.00	17.10260	372365.91	3768820.00	16.45298
371340.91	3768845.00	15.92969	371365.91	3768845.00	16.85711
371390.91	3768845.00	17.84782	371415.91	3768845.00	18.97095
371440.91	3768845.00	20.14057	371465.91	3768845.00	21.27861
371490.91	3768845.00	22.25786	371515.91	3768845.00	22.94351
371540.91	3768845.00	23.15087	371565.91	3768845.00	22.98833
371590.91	3768845.00	22.84601	371615.91	3768845.00	23.11164
371640.91	3768845.00	23.00111	371665.91	3768845.00	21.40881
371690.91	3768845.00	18.90976	371715.91	3768845.00	22.05472
371740.91	3768845.00	40.17624	371765.91	3768845.00	58.26815

CONC URBAN ELEV NOSTD HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371790.91	3768845.00	66.21322	371815.91	3768845.00	75.71771
371840.91	3768845.00	84.77449	371865.91	3768845.00	97.26097
371890.91	3768845.00	105.86047	371915.91	3768845.00	99.50505
371940.91	3768845.00	84.27888	371965.91	3768845.00	70.23862
371990.91	3768845.00	59.57246	372015.91	3768845.00	51.96835
372040.91	3768845.00	45.87247	372065.91	3768845.00	40.86071
372090.91	3768845.00	36.59071	372115.91	3768845.00	33.09734
372140.91	3768845.00	30.17663	372165.91	3768845.00	27.83895
372190.91	3768845.00	25.91293	372215.91	3768845.00	24.39907
372240.91	3768845.00	23.08678	372265.91	3768845.00	22.01292
372290.91	3768845.00	21.02309	372315.91	3768845.00	20.20534
372340.91	3768845.00	19.41466	372365.91	3768845.00	18.71828

371340.91	3768870.00	18.42494	371365.91	3768870.00	19.58975
371390.91	3768870.00	20.82835	371415.91	3768870.00	22.26709
371440.91	3768870.00	23.86165	371465.91	3768870.00	25.65698
371490.91	3768870.00	27.55232	371515.91	3768870.00	29.47869
371540.91	3768870.00	31.03995	371565.91	3768870.00	32.06638
371590.91	3768870.00	32.11807	371615.91	3768870.00	31.89161
371640.91	3768870.00	31.86259	371665.91	3768870.00	31.11566
371690.91	3768870.00	27.86389	371715.91	3768870.00	27.64511
371740.91	3768870.00	49.12637	371765.91	3768870.00	76.06386
371790.91	3768870.00	89.49376	371815.91	3768870.00	108.35922
371840.91	3768870.00	123.90344	371865.91	3768870.00	139.38577
371890.91	3768870.00	130.75955	371915.91	3768870.00	107.94458
371940.91	3768870.00	87.34787	371965.91	3768870.00	73.46303
371990.91	3768870.00	62.61272	372015.91	3768870.00	54.84595
372040.91	3768870.00	48.16666	372065.91	3768870.00	43.11420
372090.91	3768870.00	38.91388	372115.91	3768870.00	35.80149
372140.91	3768870.00	33.17662	372165.91	3768870.00	31.18473
372190.91	3768870.00	29.39613	372215.91	3768870.00	28.00455
372240.91	3768870.00	26.67696	372265.91	3768870.00	25.55503
372290.91	3768870.00	24.40026	372315.91	3768870.00	23.44650
372340.91	3768870.00	22.46434	372365.91	3768870.00	21.57656
371340.91	3768895.00	21.49022	371365.91	3768895.00	23.04183
371390.91	3768895.00	24.70770	371415.91	3768895.00	26.64126
371440.91	3768895.00	28.78088	371465.91	3768895.00	31.21067
371490.91	3768895.00	33.93494	371515.91	3768895.00	37.06497
371540.91	3768895.00	40.44813	371565.91	3768895.00	43.92315
371590.91	3768895.00	46.76442	371615.91	3768895.00	48.14674
371640.91	3768895.00	47.83295	371665.91	3768895.00	47.92202

**MODELOPTs:

CONC URBAN ELEV NOSTD HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371690.91	3768895.00	44.98217	371715.91	3768895.00	39.98969
371740.91	3768895.00	61.06758	371765.91	3768895.00	102.56137
371790.91	3768895.00	130.34776	371815.91	3768895.00	167.13454
371840.91	3768895.00	193.24559	371865.91	3768895.00	184.16017
371890.91	3768895.00	143.27771	371915.91	3768895.00	113.17765
371940.91	3768895.00	92.96317	371965.91	3768895.00	78.36152
371990.91	3768895.00	66.97424	372015.91	3768895.00	59.11765
372040.91	3768895.00	52.86313	372065.91	3768895.00	48.58342
372090.91	3768895.00	45.01881	372115.91	3768895.00	42.13697
372140.91	3768895.00	39.57825	372165.91	3768895.00	37.35654
372190.91	3768895.00	35.29304	372215.91	3768895.00	33.43163
372240.91	3768895.00	31.66569	372265.91	3768895.00	30.11579
372290.91	3768895.00	28.59216	372315.91	3768895.00	27.15965
372340.91	3768895.00	25.82969	372365.91	3768895.00	24.59428
371340.91	3768920.00	24.55494	371365.91	3768920.00	26.72520
371390.91	3768920.00	29.11286	371415.91	3768920.00	31.90797
371440.91	3768920.00	35.01847	371465.91	3768920.00	38.60345
371490.91	3768920.00	42.67581	371515.91	3768920.00	47.31949
371540.91	3768920.00	52.46640	371565.91	3768920.00	58.69333
371590.91	3768920.00	65.53734	371615.91	3768920.00	73.17358
371640.91	3768920.00	79.50014	371665.91	3768920.00	81.96984
371690.91	3768920.00	79.32564	371715.91	3768920.00	70.58627
371740.91	3768920.00	79.24005	371765.91	3768920.00	146.40483
371790.91	3768920.00	214.95511	371815.91	3768920.00	282.09778
371840.91	3768920.00	276.03912	371865.91	3768920.00	204.02599
371890.91	3768920.00	153.20892	371915.91	3768920.00	122.72727
371940.91	3768920.00	101.38087	371965.91	3768920.00	88.43455
371990.91	3768920.00	78.38461	372015.91	3768920.00	71.67546
372040.91	3768920.00	65.76823	372065.91	3768920.00	61.21887
372090.91	3768920.00	56.65872	372115.91	3768920.00	52.73357
372140.91	3768920.00	48.86699	372165.91	3768920.00	45.56087
372190.91	3768920.00	42.33816	372215.91	3768920.00	39.60794
372240.91	3768920.00	37.00394	372265.91	3768920.00	34.75840
372290.91	3768920.00	32.60210	372315.91	3768920.00	30.69593
372340.91	3768920.00	28.85913	372365.91	3768920.00	27.27905
371340.91	3768945.00	26.86412	371365.91	3768945.00	29.60839
371390.91	3768945.00	32.80381	371415.91	3768945.00	36.58208
371440.91	3768945.00	41.01057	371465.91	3768945.00	46.31352
371490.91	3768945.00	52.60408	371515.91	3768945.00	60.11773
371540.91	3768945.00	69.04314	371565.91	3768945.00	79.82151

CONC URBAN ELEV NOSTD
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*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371590.91	3768945.00	92.79735	371615.91	3768945.00	108.72470
371640.91	3768945.00	128.40225	371665.91	3768945.00	151.37737
371690.91	3768945.00	164.19662	371715.91	3768945.00	156.55757
371740.91	3768945.00	122.69586	371765.91	3768945.00	197.38687
371790.91	3768945.00	385.81250	371815.91	3768945.00	474.05630
371840.91	3768945.00	311.59644	371865.91	3768945.00	225.45898
371890.91	3768945.00	178.11298	371915.91	3768945.00	153.95059
371940.91	3768945.00	135.86243	371965.91	3768945.00	121.11905
371990.91	3768945.00	108.16471	372015.91	3768945.00	96.76080
372040.91	3768945.00	86.75599	372065.91	3768945.00	78.19372
372090.91	3768945.00	70.55387	372115.91	3768945.00	64.09010
372140.91	3768945.00	58.26176	372165.91	3768945.00	53.26028
372190.91	3768945.00	48.72304	372215.91	3768945.00	44.94299
372240.91	3768945.00	41.44559	372265.91	3768945.00	38.47121
372290.91	3768945.00	35.77903	372315.91	3768945.00	33.42131
372340.91	3768945.00	31.24249	372365.91	3768945.00	29.31433
371340.91	3768970.00	27.96634	371365.91	3768970.00	31.05681
371390.91	3768970.00	34.66759	371415.91	3768970.00	39.06750
371440.91	3768970.00	44.34463	371465.91	3768970.00	50.87333
371490.91	3768970.00	58.81588	371515.91	3768970.00	69.09521
371540.91	3768970.00	81.99084	371565.91	3768970.00	99.09427
371590.91	3768970.00	122.13786	371615.91	3768970.00	154.64417
371640.91	3768970.00	200.48463	371665.91	3768970.00	269.34924
371690.91	3768970.00	362.53741	371715.91	3768970.00	402.01428

371740.91	3768970.00	146.60927	371765.91	3768970.00	0.00000
371790.91	3768970.00	214.23691	371815.91	3768970.00	618.26740
371840.91	3768970.00	459.75003	371865.91	3768970.00	368.95090
371890.91	3768970.00	294.67618	371915.91	3768970.00	240.29019
371940.91	3768970.00	197.18666	371965.91	3768970.00	165.47318
371990.91	3768970.00	139.59261	372015.91	3768970.00	119.88672
372040.91	3768970.00	103.69988	372065.91	3768970.00	91.16103
372090.91	3768970.00	80.51618	372115.91	3768970.00	71.92164
372140.91	3768970.00	64.32035	372165.91	3768970.00	58.23899
372190.91	3768970.00	52.78812	372215.91	3768970.00	48.27154
372240.91	3768970.00	44.15157	372265.91	3768970.00	40.85847
372290.91	3768970.00	37.74790	372315.91	3768970.00	35.11022
372340.91	3768970.00	32.68243	372365.91	3768970.00	30.56899
371340.91	3768995.00	28.32161	371365.91	3768995.00	31.50969
371390.91	3768995.00	35.26744	371415.91	3768995.00	39.82191
371440.91	3768995.00	45.33514	371465.91	3768995.00	52.16388

**MODELOPTs:

CONC URBAN ELEV NOSTD HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371490.91	3768995.00	60.62489	371515.91	3768995.00	71.56474
371540.91	3768995.00	85.80594	371565.91	3768995.00	104.95425
371590.91	3768995.00	131.61772	371615.91	3768995.00	170.25774
371640.91	3768995.00	230.40964	371665.91	3768995.00	332.19000
371690.91	3768995.00	510.78589	371715.91	3768995.00	718.82343
371815.91	3768995.00	1199.52051	371840.91	3768995.00	783.85883
371865.91	3768995.00	518.67743	371890.91	3768995.00	374.53732
371915.91	3768995.00	286.15305	371940.91	3768995.00	225.85519
371965.91	3768995.00	184.95049	371990.91	3768995.00	152.79782

372015.91	3768995.00	129.66402	372040.91	3768995.00	111.18166
372065.91	3768995.00	96.63168	372090.91	3768995.00	84.86391
372115.91	3768995.00	75.49602	372140.91	3768995.00	67.34842
372165.91	3768995.00	60.66095	372190.91	3768995.00	54.82909
372215.91	3768995.00	49.95128	372240.91	3768995.00	45.65768
372265.91	3768995.00	42.00910	372290.91	3768995.00	38.80188
372315.91	3768995.00	36.00372	372340.91	3768995.00	33.45891
372365.91	3768995.00	31.26288	371340.91	3769020.00	28.48521
371365.91	3769020.00	31.70657	371390.91	3769020.00	35.51113
371415.91	3769020.00	40.09513	371440.91	3769020.00	45.60491
371465.91	3769020.00	52.48187	371490.91	3769020.00	60.91061
371515.91	3769020.00	71.78897	371540.91	3769020.00	85.68808
371565.91	3769020.00	104.18279	371590.91	3769020.00	128.79759
371615.91	3769020.00	163.16881	371640.91	3769020.00	211.37396
371665.91	3769020.00	284.89627	371690.91	3769020.00	402.55731
371715.91	3769020.00	614.38763	371740.91	3769020.00	436.77692
371765.91	3769020.00	339.25946	371790.91	3769020.00	1267.54871
371815.91	3769020.00	1791.84192	371840.91	3769020.00	984.97101
371865.91	3769020.00	587.28229	371890.91	3769020.00	397.86761
371915.91	3769020.00	295.95987	371940.91	3769020.00	230.36162
371965.91	3769020.00	188.22276	371990.91	3769020.00	155.07208
372015.91	3769020.00	131.51373	372040.91	3769020.00	112.47221
372065.91	3769020.00	98.11573	372090.91	3769020.00	85.93600
372115.91	3769020.00	76.36942	372140.91	3769020.00	68.05471
372165.91	3769020.00	61.31264	372190.91	3769020.00	55.32821
372215.91	3769020.00	50.51861	372240.91	3769020.00	46.06388
372265.91	3769020.00	42.45594	372290.91	3769020.00	39.15135
372315.91	3769020.00	36.35097	372340.91	3769020.00	33.76551
372365.91	3769020.00	31.54078	371340.91	3769045.00	34.02026
371365.91	3769045.00	31.63115	371390.91	3769045.00	35.31357
371415.91	3769045.00	39.66682	371440.91	3769045.00	44.84111

**MODELOPTs:

CONC URBAN ELEV NOSTD HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371465.91	3769045.00	51.02977	371490.91	3769045.00	58.47338
371515.91	3769045.00	67.67261	371540.91	3769045.00	78.72237
371565.91	3769045.00	92.56452	371590.91	3769045.00	110.15244
371615.91	3769045.00	134.57796	371640.91	3769045.00	172.10120
371665.91	3769045.00	229.05365	371690.91	3769045.00	296.97220
371715.91	3769045.00	388.44055	371740.91	3769045.00	515.15155
371765.91	3769045.00	760.38904	371790.91	3769045.00	1067.54895
371815.91	3769045.00	1203.21692	371840.91	3769045.00	939.67767
371865.91	3769045.00	648.95941	371890.91	3769045.00	432.89032
371915.91	3769045.00	308.73422	371940.91	3769045.00	234.17830
371965.91	3769045.00	186.94597	371990.91	3769045.00	153.75140
372015.91	3769045.00	129.49988	372040.91	3769045.00	111.00904
372065.91	3769045.00	96.83226	372090.91	3769045.00	85.05612
372115.91	3769045.00	75.66022	372140.91	3769045.00	67.69825
372165.91	3769045.00	61.02717	372190.91	3769045.00	55.25279
372215.91	3769045.00	50.38514	372240.91	3769045.00	46.07736
372265.91	3769045.00	42.41600	372290.91	3769045.00	39.19318
372315.91	3769045.00	36.42365	372340.91	3769045.00	33.82586
372365.91	3769045.00	31.57624	371340.91	3769070.00	27.79742
371365.91	3769070.00	30.62522	371390.91	3769070.00	33.82817
371415.91	3769070.00	37.52573	371440.91	3769070.00	41.74846
371465.91	3769070.00	46.65751	371490.91	3769070.00	52.34182
371515.91	3769070.00	59.32565	371540.91	3769070.00	67.89993
371565.91	3769070.00	79.33617	371590.91	3769070.00	94.99552
371615.91	3769070.00	116.47591	371640.91	3769070.00	141.99283
371665.91	3769070.00	171.96536	371690.91	3769070.00	214.11577
371715.91	3769070.00	257.94577	371740.91	3769070.00	345.99432
371765.91	3769070.00	468.55023	371790.91	3769070.00	556.69763
371815.91	3769070.00	695.26849	371840.91	3769070.00	688.21948
371865.91	3769070.00	570.11139	371890.91	3769070.00	437.02667
371915.91	3769070.00	326.39600	371940.91	3769070.00	245.73268
371965.91	3769070.00	192.24846	371990.91	3769070.00	154.81636
372015.91	3769070.00	129.11890	372040.91	3769070.00	109.18972
372065.91	3769070.00	94.93896	372090.91	3769070.00	83.09797
372115.91	3769070.00	74.07717	372140.91	3769070.00	66.15798
372165.91	3769070.00	59.89808	372190.91	3769070.00	54.19528
372215.91	3769070.00	49.61965	372240.91	3769070.00	45.38526

372265.91	3769070.00	41.91668	372290.91	3769070.00	38.82185
372315.91	3769070.00	36.06070	372340.91	3769070.00	33.51886
372365.91	3769070.00	31.33493	371340.91	3769095.00	31.58475

**MODELOPTs:
CONC URBAN ELEV NOSTD
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*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371365.91	3769095.00	28.48771	371390.91	3769095.00	31.08095
371415.91	3769095.00	34.02737	371440.91	3769095.00	37.40441
371465.91	3769095.00	41.43003	371490.91	3769095.00	46.36009
371515.91	3769095.00	52.73717	371540.91	3769095.00	61.00013
371565.91	3769095.00	71.61608	371590.91	3769095.00	83.97477
371615.91	3769095.00	97.00386	371640.91	3769095.00	111.04015
371665.91	3769095.00	132.25966	371690.91	3769095.00	156.82948
371715.91	3769095.00	183.84184	371740.91	3769095.00	250.66466
371765.91	3769095.00	319.00470	371790.91	3769095.00	355.46704
371815.91	3769095.00	408.91003	371840.91	3769095.00	464.16122
371865.91	3769095.00	438.30341	371890.91	3769095.00	378.67688
371915.91	3769095.00	313.84979	371940.91	3769095.00	251.07904
371965.91	3769095.00	199.97835	371990.91	3769095.00	160.59720
372015.91	3769095.00	132.21104	372040.91	3769095.00	110.84338
372065.91	3769095.00	94.90845	372090.91	3769095.00	82.53449
372115.91	3769095.00	72.85301	372140.91	3769095.00	65.00322
372165.91	3769095.00	58.61994	372190.91	3769095.00	53.12078
372215.91	3769095.00	48.57296	372240.91	3769095.00	44.54417
372265.91	3769095.00	41.12732	372290.91	3769095.00	38.07704
372315.91	3769095.00	35.41822	372340.91	3769095.00	32.98344
372365.91	3769095.00	30.86102	371340.91	3769120.00	24.00116
371365.91	3769120.00	25.93306	371390.91	3769120.00	28.13372

371415.91	3769120.00	30.75671	371440.91	3769120.00	33.89358
371465.91	3769120.00	37.83708	371490.91	3769120.00	42.71263
371515.91	3769120.00	48.78507	371540.91	3769120.00	55.72490
371565.91	3769120.00	63.17420	371590.91	3769120.00	70.46333
371615.91	3769120.00	78.71283	371640.91	3769120.00	90.30039
371665.91	3769120.00	105.19543	371690.91	3769120.00	116.49051
371715.91	3769120.00	141.48132	371740.91	3769120.00	187.55055
371765.91	3769120.00	229.37715	371790.91	3769120.00	249.15634
371815.91	3769120.00	264.98883	371840.91	3769120.00	303.96729
371865.91	3769120.00	325.04028	371890.91	3769120.00	304.36310
371915.91	3769120.00	272.19781	371940.91	3769120.00	235.00806
371965.91	3769120.00	198.09460	371990.91	3769120.00	163.63504
372015.91	3769120.00	135.96773	372040.91	3769120.00	113.67222
372065.91	3769120.00	96.85799	372090.91	3769120.00	83.53035
372115.91	3769120.00	73.15776	372140.91	3769120.00	64.70458
372165.91	3769120.00	58.05177	372190.91	3769120.00	52.30513
372215.91	3769120.00	47.70871	372240.91	3769120.00	43.67661
372265.91	3769120.00	40.27999	372290.91	3769120.00	37.24965

CONC URBAN ELEV NOSTD
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*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372315.91	3769120.00	34.61651	372340.91	3769120.00	32.26033
372365.91	3769120.00	30.23506	371340.91	3769145.00	22.01399
371365.91	3769145.00	23.82672	371390.91	3769145.00	25.98218
371415.91	3769145.00	28.61093	371440.91	3769145.00	31.76616
371465.91	3769145.00	35.55061	371490.91	3769145.00	39.84217
371515.91	3769145.00	44.49514	371540.91	3769145.00	49.10578
371565.91	3769145.00	53.73117	371590.91	3769145.00	58.91128

371615.91	3769145.00	66.31921	371640.91	3769145.00	75.82149
371665.91	3769145.00	83.72210	371690.91	3769145.00	92.45499
371715.91	3769145.00	114.69001	371740.91	3769145.00	146.81458
371765.91	3769145.00	173.13058	371790.91	3769145.00	185.52950
371815.91	3769145.00	190.87172	371840.91	3769145.00	209.42412
371865.91	3769145.00	235.76613	371890.91	3769145.00	240.30986
371915.91	3769145.00	226.50497	371940.91	3769145.00	205.98027
371965.91	3769145.00	183.11008	371990.91	3769145.00	158.97314
372015.91	3769145.00	136.22704	372040.91	3769145.00	115.75961
372065.91	3769145.00	99.09828	372090.91	3769145.00	85.37834
372115.91	3769145.00	74.47753	372140.91	3769145.00	65.61743
372165.91	3769145.00	58.45303	372190.91	3769145.00	52.44164
372215.91	3769145.00	47.50979	372240.91	3769145.00	43.25621
372265.91	3769145.00	39.75269	372290.91	3769145.00	36.64831
372315.91	3769145.00	34.01348	372340.91	3769145.00	31.66474
372365.91	3769145.00	29.61410	371340.91	3769170.00	20.61510
371365.91	3769170.00	22.46042	371390.91	3769170.00	24.63269
371415.91	3769170.00	27.17946	371440.91	3769170.00	30.01790
371465.91	3769170.00	33.10015	371490.91	3769170.00	36.18927
371515.91	3769170.00	39.27924	371540.91	3769170.00	42.31445
371565.91	3769170.00	45.92017	371590.91	3769170.00	50.83546
371615.91	3769170.00	57.30205	371640.91	3769170.00	63.18678
371665.91	3769170.00	67.76910	371690.91	3769170.00	77.13036
371715.91	3769170.00	95.80129	371740.91	3769170.00	118.15968
371765.91	3769170.00	136.25777	371790.91	3769170.00	144.57443
371815.91	3769170.00	146.57558	371840.91	3769170.00	153.15331
371865.91	3769170.00	171.50948	371890.91	3769170.00	185.56514
371915.91	3769170.00	185.61351	371940.91	3769170.00	174.89023
371965.91	3769170.00	161.46562	371990.91	3769170.00	145.94870
372015.91	3769170.00	130.13911	372040.91	3769170.00	114.08437
372065.91	3769170.00	99.45539	372090.91	3769170.00	86.47408
372115.91	3769170.00	75.90611	372140.91	3769170.00	66.78208
372165.91	3769170.00	59.35885	372190.91	3769170.00	53.03766

**MODELOPTs:

CONC URBAN ELEV NOSTD HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372215.91	3769170.00	47.81969	372240.91	3769170.00	43.36785
372265.91	3769170.00	39.65584	372290.91	3769170.00	36.39711
372315.91	3769170.00	33.67433	372340.91	3769170.00	31.25668
372365.91	3769170.00	29.17695	371340.91	3769195.00	19.71518
371365.91	3769195.00	21.51076	371390.91	3769195.00	23.50394
371415.91	3769195.00	25.65878	371440.91	3769195.00	27.86053
371465.91	3769195.00	30.03483	371490.91	3769195.00	32.13157
371515.91	3769195.00	34.30407	371540.91	3769195.00	36.85275
371565.91	3769195.00	40.35925	371590.91	3769195.00	44.87062
371615.91	3769195.00	49.42271	371640.91	3769195.00	52.67120
371665.91	3769195.00	56.86057	371690.91	3769195.00	66.25312
371715.91	3769195.00	81.11008	371740.91	3769195.00	97.56238
371765.91	3769195.00	110.37038	371790.91	3769195.00	116.37721
371815.91	3769195.00	117.38958	371840.91	3769195.00	119.14314
371865.91	3769195.00	128.70195	371890.91	3769195.00	142.38837
371915.91	3769195.00	149.66331	371940.91	3769195.00	147.17120
371965.91	3769195.00	139.62643	371990.91	3769195.00	129.85294
372015.91	3769195.00	119.62537	372040.91	3769195.00	108.23975
372065.91	3769195.00	97.04356	372090.91	3769195.00	86.25912
372115.91	3769195.00	76.51008	372140.91	3769195.00	67.75510
372165.91	3769195.00	60.33009	372190.91	3769195.00	53.89548
372215.91	3769195.00	48.53441	372240.91	3769195.00	43.88955
372265.91	3769195.00	39.97338	372290.91	3769195.00	36.59811
372315.91	3769195.00	33.71524	372340.91	3769195.00	31.18687
372365.91	3769195.00	29.01449	371340.91	3769220.00	18.94253
371365.91	3769220.00	20.51057	371390.91	3769220.00	22.11873
371415.91	3769220.00	23.73191	371440.91	3769220.00	25.27585
371465.91	3769220.00	26.80870	371490.91	3769220.00	28.38256
371515.91	3769220.00	30.31985	371540.91	3769220.00	32.85913
371565.91	3769220.00	36.17438	371590.91	3769220.00	39.64510
371615.91	3769220.00	42.37225	371640.91	3769220.00	44.58697
371665.91	3769220.00	49.21185	371690.91	3769220.00	57.73376
371715.91	3769220.00	69.60361	371740.91	3769220.00	81.92832
371765.91	3769220.00	91.49149	371790.91	3769220.00	95.70349
371815.91	3769220.00	96.54953	371840.91	3769220.00	96.41319
371865.91	3769220.00	100.68126	371890.91	3769220.00	110.05712

371915.91	3769220.00	119.51922	371940.91	3769220.00	122.50032
371965.91	3769220.00	119.95528	371990.91	3769220.00	113.99088
372015.91	3769220.00	107.15656	372040.91	3769220.00	99.45584
372065.91	3769220.00	91.66870	372090.91	3769220.00	83.32663

**MODELOPTs:

CONC URBAN ELEV NOSTD HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372115.91	3769220.00	75.32207	372140.91	3769220.00	67.55024
372165.91	3769220.00	60.71198	372190.91	3769220.00	54.51083
372215.91	3769220.00	49.17012	372240.91	3769220.00	44.46505
372265.91	3769220.00	40.46907	372290.91	3769220.00	36.92786
372315.91	3769220.00	33.96918	372340.91	3769220.00	31.32279
372365.91	3769220.00	29.07102	371340.91	3769245.00	18.01371
371365.91	3769245.00	19.24279	371390.91	3769245.00	20.43494
371415.91	3769245.00	21.58540	371440.91	3769245.00	22.72260
371465.91	3769245.00	23.94535	371490.91	3769245.00	25.41159
371515.91	3769245.00	27.34456	371540.91	3769245.00	29.80704
371565.91	3769245.00	32.52697	371590.91	3769245.00	34.79689
371615.91	3769245.00	36.45094	371640.91	3769245.00	38.73364
371665.91	3769245.00	43.51342	371690.91	3769245.00	50.92486
371715.91	3769245.00	60.51561	371740.91	3769245.00	70.05620
371765.91	3769245.00	77.08750	371790.91	3769245.00	80.47055
371815.91	3769245.00	81.03449	371840.91	3769245.00	80.29903
371865.91	3769245.00	81.82897	371890.91	3769245.00	87.42461
371915.91	3769245.00	95.35011	371940.91	3769245.00	101.04636
371965.91	3769245.00	102.27954	371990.91	3769245.00	99.58235
372015.91	3769245.00	95.16966	372040.91	3769245.00	89.91563
372065.91	3769245.00	84.39260	372090.91	3769245.00	78.46880

372115.91	3769245.00	72.38663	372140.91	3769245.00	66.14027
372165.91	3769245.00	60.20351	372190.91	3769245.00	54.57965
372215.91	3769245.00	49.52493	372240.91	3769245.00	44.92849
372265.91	3769245.00	40.95063	372290.91	3769245.00	37.41625
372315.91	3769245.00	34.36443	372340.91	3769245.00	31.65750
372365.91	3769245.00	29.30784	371340.91	3769270.00	16.86182
371365.91	3769270.00	17.77000	371390.91	3769270.00	18.64126
371415.91	3769270.00	19.52565	371440.91	3769270.00	20.47623
371465.91	3769270.00	21.64279	371490.91	3769270.00	23.13133
371515.91	3769270.00	25.03793	371540.91	3769270.00	27.14364
371565.91	3769270.00	29.09311	371590.91	3769270.00	30.44380
371615.91	3769270.00	31.81570	371640.91	3769270.00	34.32618
371665.91	3769270.00	38.93232	371690.91	3769270.00	45.30840
371715.91	3769270.00	53.07227	371740.91	3769270.00	60.51043
371765.91	3769270.00	65.94457	371790.91	3769270.00	68.60339
371815.91	3769270.00	69.09936	371840.91	3769270.00	68.26693
371865.91	3769270.00	68.46876	371890.91	3769270.00	71.32069
371915.91	3769270.00	77.01135	371940.91	3769270.00	82.97768
371965.91	3769270.00	86.52353	371990.91	3769270.00	86.39931

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372015.91	3769270.00	84.24506	372040.91	3769270.00	80.63796
372065.91	3769270.00	76.77596	372090.91	3769270.00	72.43980
372115.91	3769270.00	68.02326	372140.91	3769270.00	63.26108
372165.91	3769270.00	58.54532	372190.91	3769270.00	53.77393
372215.91	3769270.00	49.27367	372240.91	3769270.00	45.03819

372265.91	3769270.00	41.23298	372290.91	3769270.00	37.74244
372315.91	3769270.00	34.73349	372340.91	3769270.00	31.97769
372365.91	3769270.00	29.61329	371340.91	3769295.00	15.59125
371365.91	3769295.00	16.27322	371390.91	3769295.00	16.96884
371415.91	3769295.00	17.74186	371440.91	3769295.00	18.66998
371465.91	3769295.00	19.86121	371490.91	3769295.00	21.34073
371515.91	3769295.00	23.04152	371540.91	3769295.00	24.65127
371565.91	3769295.00	25.88282	371590.91	3769295.00	26.82397
371615.91	3769295.00	28.26121	371640.91	3769295.00	30.94781
371665.91	3769295.00	35.12315	371690.91	3769295.00	40.58119
371715.91	3769295.00	46.94817	371740.91	3769295.00	52.89698
371765.91	3769295.00	57.19429	371790.91	3769295.00	59.27906
371815.91	3769295.00	59.76672	371840.91	3769295.00	58.99166
371865.91	3769295.00	58.57547	371890.91	3769295.00	59.79070
371915.91	3769295.00	63.44004	371940.91	3769295.00	68.41060
371965.91	3769295.00	72.69525	371990.91	3769295.00	74.61407
372015.91	3769295.00	74.21144	372040.91	3769295.00	72.14009
372065.91	3769295.00	69.42269	372090.91	3769295.00	66.28339
372115.91	3769295.00	63.02258	372140.91	3769295.00	59.47954
372165.91	3769295.00	55.88562	372190.91	3769295.00	52.08221
372215.91	3769295.00	48.34114	372240.91	3769295.00	44.63178
372265.91	3769295.00	41.15499	372290.91	3769295.00	37.89870
372315.91	3769295.00	34.96619	372340.91	3769295.00	32.27926
372365.91	3769295.00	29.89189	371340.91	3769320.00	14.33484
371365.91	3769320.00	14.90142	371390.91	3769320.00	15.52776
371415.91	3769320.00	16.29148	371440.91	3769320.00	17.24759
371465.91	3769320.00	18.43882	371490.91	3769320.00	19.80098
371515.91	3769320.00	21.16150	371540.91	3769320.00	22.24782
371565.91	3769320.00	23.04814	371590.91	3769320.00	23.90849
371615.91	3769320.00	25.50000	371640.91	3769320.00	28.14917
371665.91	3769320.00	31.91332	371690.91	3769320.00	36.57556
371715.91	3769320.00	41.86216	371740.91	3769320.00	46.65320
371765.91	3769320.00	50.09220	371790.91	3769320.00	51.73652
371815.91	3769320.00	52.21204	371840.91	3769320.00	51.61672
371865.91	3769320.00	50.95948	371890.91	3769320.00	51.23318

**MODELOPTs:

CONC URBAN ELEV NOSTD HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371915.91	3769320.00	53.33888	371940.91	3769320.00	56.97136
371965.91	3769320.00	61.06481	371990.91	3769320.00	63.93875
372015.91	3769320.00	65.02622	372040.91	3769320.00	64.29039
372065.91	3769320.00	62.66567	372090.91	3769320.00	60.37165
372115.91	3769320.00	57.92707	372140.91	3769320.00	55.28246
372165.91	3769320.00	52.56046	372190.91	3769320.00	49.61188
372215.91	3769320.00	46.65623	372240.91	3769320.00	43.57884
372265.91	3769320.00	40.59717	372290.91	3769320.00	37.65320
372315.91	3769320.00	34.95475	372340.91	3769320.00	32.38744
372365.91	3769320.00	30.08152	371340.91	3769345.00	13.19853
371365.91	3769345.00	13.72344	371390.91	3769345.00	14.35014
371415.91	3769345.00	15.13669	371440.91	3769345.00	16.10143
371465.91	3769345.00	17.21526	371490.91	3769345.00	18.35458
371515.91	3769345.00	19.33302	371540.91	3769345.00	20.04424
371565.91	3769345.00	20.66178	371590.91	3769345.00	21.59597
371615.91	3769345.00	23.27592	371640.91	3769345.00	25.80077
371665.91	3769345.00	29.14262	371690.91	3769345.00	33.17125
371715.91	3769345.00	37.59579	371740.91	3769345.00	41.49653
371765.91	3769345.00	44.26949	371790.91	3769345.00	45.68316
371815.91	3769345.00	46.04119	371840.91	3769345.00	45.58098
371865.91	3769345.00	44.88533	371890.91	3769345.00	44.66702
371915.91	3769345.00	45.74227	371940.91	3769345.00	48.21274
371965.91	3769345.00	51.56840	371990.91	3769345.00	54.68395
372015.91	3769345.00	56.66957	372040.91	3769345.00	57.14106
372065.91	3769345.00	56.43775	372090.91	3769345.00	54.92525
372115.91	3769345.00	53.13335	372140.91	3769345.00	51.08775
372165.91	3769345.00	48.99817	372190.91	3769345.00	46.75351
372215.91	3769345.00	44.44176	372240.91	3769345.00	41.98820
372265.91	3769345.00	39.53106	372290.91	3769345.00	37.04066
372315.91	3769345.00	34.62481	372340.91	3769345.00	32.29133
372365.91	3769345.00	30.09791	371340.91	3769370.00	12.22135
371365.91	3769370.00	12.75125	371390.91	3769370.00	13.39821
371415.91	3769370.00	14.19766	371440.91	3769370.00	15.11454

371465.91	3769370.00	16.07465	371490.91	3769370.00	16.93703
371515.91	3769370.00	17.60197	371540.91	3769370.00	18.09667
371565.91	3769370.00	18.69488	371590.91	3769370.00	19.72683
371615.91	3769370.00	21.42999	371640.91	3769370.00	23.76633
371665.91	3769370.00	26.73995	371690.91	3769370.00	30.21516
371715.91	3769370.00	33.96093	371740.91	3769370.00	37.14094
371765.91	3769370.00	39.45877	371790.91	3769370.00	40.59793

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371815.91	3769370.00	40.95173	371840.91	3769370.00	40.60038
371865.91	3769370.00	39.94600	371890.91	3769370.00	39.48882
371915.91	3769370.00	39.92923	371940.91	3769370.00	41.42859
371965.91	3769370.00	43.99412	371990.91	3769370.00	46.82218
372015.91	3769370.00	49.20429	372040.91	3769370.00	50.46839
372065.91	3769370.00	50.63893	372090.91	3769370.00	49.87336
372115.91	3769370.00	48.63877	372140.91	3769370.00	47.09228
372165.91	3769370.00	45.44463	372190.91	3769370.00	43.69369
372215.91	3769370.00	41.90537	372240.91	3769370.00	39.96643
372265.91	3769370.00	38.02401	372290.91	3769370.00	35.95254
372315.91	3769370.00	33.92858	372340.91	3769370.00	31.87744
372365.91	3769370.00	29.90887	371340.91	3769395.00	11.41239
371365.91	3769395.00	11.95924	371390.91	3769395.00	12.62192
371415.91	3769395.00	13.39140	371440.91	3769395.00	14.20127
371465.91	3769395.00	14.96107	371490.91	3769395.00	15.56927
371515.91	3769395.00	16.01796	371540.91	3769395.00	16.43592
371565.91	3769395.00	17.09160	371590.91	3769395.00	18.20178
371615.91	3769395.00	19.85130	371640.91	3769395.00	21.99084

371665.91	3769395.00	24.63466	371690.91	3769395.00	27.68898
371715.91	3769395.00	30.83819	371740.91	3769395.00	33.51278
371765.91	3769395.00	35.38991	371790.91	3769395.00	36.37240
371815.91	3769395.00	36.70499	371840.91	3769395.00	36.43499
371865.91	3769395.00	35.85258	371890.91	3769395.00	35.30695
371915.91	3769395.00	35.32518	371940.91	3769395.00	36.17831
371965.91	3769395.00	37.98026	371990.91	3769395.00	40.34131
372015.91	3769395.00	42.70565	372040.91	3769395.00	44.41167
372065.91	3769395.00	45.24821	372090.91	3769395.00	45.17046
372115.91	3769395.00	44.46694	372140.91	3769395.00	43.36661
372165.91	3769395.00	42.07509	372190.91	3769395.00	40.70288
372215.91	3769395.00	39.28012	372240.91	3769395.00	37.77242
372265.91	3769395.00	36.21661	372290.91	3769395.00	34.57135
372315.91	3769395.00	32.89670	372340.91	3769395.00	31.16094
372365.91	3769395.00	29.45547	371340.91	3769420.00	10.74537
371365.91	3769420.00	11.30493	371390.91	3769420.00	11.95083
371415.91	3769420.00	12.64668	371440.91	3769420.00	13.31017
371465.91	3769420.00	13.87150	371490.91	3769420.00	14.28625
371515.91	3769420.00	14.62298	371540.91	3769420.00	15.04563
371565.91	3769420.00	15.77403	371590.91	3769420.00	16.90596
371615.91	3769420.00	18.47611	371640.91	3769420.00	20.41174
371665.91	3769420.00	22.78774	371690.91	3769420.00	25.45577

CONC URBAN ELEV NOSTD
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*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371715.91	3769420.00	28.13984	371740.91	3769420.00	30.37325
371765.91	3769420.00	31.94816	371790.91	3769420.00	32.78651
371815.91	3769420.00	33.09720	371840.91	3769420.00	32.87811

371865.91	3769420.00	32.41393	371890.91	3769420.00	31.81816
371915.91	3769420.00	31.61899	371940.91	3769420.00	32.00107
371965.91	3769420.00	33.21103	371990.91	3769420.00	35.02127
372015.91	3769420.00	37.14522	372040.91	3769420.00	38.97837
372065.91	3769420.00	40.28339	372090.91	3769420.00	40.72823
372115.91	3769420.00	40.58144	372140.91	3769420.00	39.88731
372165.91	3769420.00	38.94703	372190.91	3769420.00	37.83768
372215.91	3769420.00	36.71724	372240.91	3769420.00	35.49196
372265.91	3769420.00	34.25894	372290.91	3769420.00	32.92093
372315.91	3769420.00	31.59741	372340.91	3769420.00	30.16134
372365.91	3769420.00	28.72567	371340.91	3769445.00	10.19093
371365.91	3769445.00	10.74121	371390.91	3769445.00	11.33678
371415.91	3769445.00	11.92354	371440.91	3769445.00	12.43360
371465.91	3769445.00	12.82839	371490.91	3769445.00	13.12071
371515.91	3769445.00	13.42607	371540.91	3769445.00	13.89424
371565.91	3769445.00	14.67387	371590.91	3769445.00	15.79609
371615.91	3769445.00	17.25475	371640.91	3769445.00	19.02912
371665.91	3769445.00	21.15285	371690.91	3769445.00	23.49552
371715.91	3769445.00	25.79681	371740.91	3769445.00	27.69312
371765.91	3769445.00	29.02176	371790.91	3769445.00	29.73209
371815.91	3769445.00	30.01915	371840.91	3769445.00	29.87838
371865.91	3769445.00	29.45672	371890.91	3769445.00	28.90403
371915.91	3769445.00	28.57386	371940.91	3769445.00	28.67048
371965.91	3769445.00	29.41317	371990.91	3769445.00	30.73150
372015.91	3769445.00	32.49110	372040.91	3769445.00	34.27601
372065.91	3769445.00	35.74450	372090.91	3769445.00	36.63195
372115.91	3769445.00	36.92105	372140.91	3769445.00	36.64409
372165.91	3769445.00	36.03159	372190.91	3769445.00	35.20396
372215.91	3769445.00	34.27657	372240.91	3769445.00	33.29202
372265.91	3769445.00	32.28825	372290.91	3769445.00	31.21902
372315.91	3769445.00	30.12857	372340.91	3769445.00	28.96896
372365.91	3769445.00	27.79342	371340.91	3769470.00	9.71216
371365.91	3769470.00	10.22762	371390.91	3769470.00	10.74130
371415.91	3769470.00	11.20836	371440.91	3769470.00	11.57806
371465.91	3769470.00	11.85579	371490.91	3769470.00	12.08852
371515.91	3769470.00	12.40827	371540.91	3769470.00	12.92790
371565.91	3769470.00	13.73385	371590.91	3769470.00	14.81536

CONC URBAN ELEV NOSTD
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*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371615.91	3769470.00	16.16543	371640.91	3769470.00	17.78389
371665.91	3769470.00	19.69171	371690.91	3769470.00	21.74313
371715.91	3769470.00	23.74276	371740.91	3769470.00	25.35060
371765.91	3769470.00	26.48246	371790.91	3769470.00	27.10850
371815.91	3769470.00	27.36175	371840.91	3769470.00	27.25105
371865.91	3769470.00	26.91357	371890.91	3769470.00	26.41741
371915.91	3769470.00	26.03075	371940.91	3769470.00	25.92373
371965.91	3769470.00	26.32830	371990.91	3769470.00	27.25258
372015.91	3769470.00	28.63995	372040.91	3769470.00	30.19866
372065.91	3769470.00	31.70214	372090.91	3769470.00	32.82346
372115.91	3769470.00	33.46521	372140.91	3769470.00	33.56578
372165.91	3769470.00	33.29562	372190.91	3769470.00	32.71894
372215.91	3769470.00	32.00951	372240.91	3769470.00	31.18447
372265.91	3769470.00	30.36267	372290.91	3769470.00	29.47856
372315.91	3769470.00	28.60279	372340.91	3769470.00	27.65102
372365.91	3769470.00	26.68907	371340.91	3769495.00	9.27672
371365.91	3769495.00	9.73229	371390.91	3769495.00	10.15430
371415.91	3769495.00	10.50405	371440.91	3769495.00	10.76481
371465.91	3769495.00	10.97091	371490.91	3769495.00	11.19569
371515.91	3769495.00	11.54996	371540.91	3769495.00	12.10844
371565.91	3769495.00	12.91470	371590.91	3769495.00	13.94116
371615.91	3769495.00	15.19260	371640.91	3769495.00	16.67369
371665.91	3769495.00	18.39309	371690.91	3769495.00	20.21405
371715.91	3769495.00	21.92989	371740.91	3769495.00	23.31963
371765.91	3769495.00	24.28998	371790.91	3769495.00	24.82848
371815.91	3769495.00	25.05865	371840.91	3769495.00	24.99376
371865.91	3769495.00	24.71554	371890.91	3769495.00	24.26660
371915.91	3769495.00	23.85720	371940.91	3769495.00	23.64770
371965.91	3769495.00	23.81164	371990.91	3769495.00	24.41066
372015.91	3769495.00	25.44966	372040.91	3769495.00	26.76878
372065.91	3769495.00	28.17055	372090.91	3769495.00	29.37600

372115.91	3769495.00	30.24962	372140.91	3769495.00	30.66063
372165.91	3769495.00	30.69573	372190.91	3769495.00	30.38161
372215.91	3769495.00	29.88261	372240.91	3769495.00	29.24016
372265.91	3769495.00	28.54863	372290.91	3769495.00	27.82501
372315.91	3769495.00	27.07954	372340.91	3769495.00	26.29869
372365.91	3769495.00	25.50840	371340.91	3769520.00	8.85940
371365.91	3769520.00	9.24261	371390.91	3769520.00	9.56833
371415.91	3769520.00	9.82113	371440.91	3769520.00	10.00951
371465.91	3769520.00	10.18661	371490.91	3769520.00	10.42602

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CONC URBAN ELEV NOSTD HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371515.91	3769520.00	10.81727	371540.91	3769520.00	11.40105
371565.91	3769520.00	12.18709	371590.91	3769520.00	13.14960
371615.91	3769520.00	14.31366	371640.91	3769520.00	15.67047
371665.91	3769520.00	17.22281	371690.91	3769520.00	18.82052
371715.91	3769520.00	20.32531	371740.91	3769520.00	21.50879
371765.91	3769520.00	22.35884	371790.91	3769520.00	22.81887
371815.91	3769520.00	23.04240	371840.91	3769520.00	22.98818
371865.91	3769520.00	22.77530	371890.91	3769520.00	22.37326
371915.91	3769520.00	21.98934	371940.91	3769520.00	21.69451
371965.91	3769520.00	21.70869	371990.91	3769520.00	22.05470
372015.91	3769520.00	22.81821	372040.91	3769520.00	23.85499
372065.91	3769520.00	25.10066	372090.91	3769520.00	26.29280
372115.91	3769520.00	27.28427	372140.91	3769520.00	27.92670
372165.91	3769520.00	28.21800	372190.91	3769520.00	28.15277
372215.91	3769520.00	27.86161	372240.91	3769520.00	27.39357
372265.91	3769520.00	26.84514	372290.91	3769520.00	26.22397

372315.91	3769520.00	25.60721	372340.91	3769520.00	24.94816
372365.91	3769520.00	24.29582	371340.91	3769545.00	10.25442
371365.91	3769545.00	8.75395	371390.91	3769545.00	8.99586
371415.91	3769545.00	9.17720	371440.91	3769545.00	9.32415
371465.91	3769545.00	9.49931	371490.91	3769545.00	9.76899
371515.91	3769545.00	10.19133	371540.91	3769545.00	10.78064
371565.91	3769545.00	11.53850	371590.91	3769545.00	12.44174
371615.91	3769545.00	13.51386	371640.91	3769545.00	14.76211
371665.91	3769545.00	16.16467	371690.91	3769545.00	17.58912
371715.91	3769545.00	18.89427	371740.91	3769545.00	19.93211
371765.91	3769545.00	20.66616	371790.91	3769545.00	21.08227
371815.91	3769545.00	21.26772	371840.91	3769545.00	21.24901
371865.91	3769545.00	21.06820	371890.91	3769545.00	20.73009
371915.91	3769545.00	20.35314	371940.91	3769545.00	20.04086
371965.91	3769545.00	19.94003	371990.91	3769545.00	20.11252
372015.91	3769545.00	20.62583	372040.91	3769545.00	21.43595
372065.91	3769545.00	22.47542	372090.91	3769545.00	23.56990
372115.91	3769545.00	24.59442	372140.91	3769545.00	25.37773
372165.91	3769545.00	25.86635	372190.91	3769545.00	26.03004
372215.91	3769545.00	25.95218	372240.91	3769545.00	25.65223
372265.91	3769545.00	25.24406	372290.91	3769545.00	24.74015
372315.91	3769545.00	24.21185	372340.91	3769545.00	23.65050
372365.91	3769545.00	23.09607	371340.91	3769570.00	9.64979
371365.91	3769570.00	8.26967	371390.91	3769570.00	8.44468

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371415.91	3769570.00	8.57984	371440.91	3769570.00	8.71272

371465.91	3769570.00	8.90411	371490.91	3769570.00	9.20147
371515.91	3769570.00	9.64386	371540.91	3769570.00	10.22653
371565.91	3769570.00	10.94641	371590.91	3769570.00	11.78939
371615.91	3769570.00	12.78605	371640.91	3769570.00	13.93478
371665.91	3769570.00	15.20241	371690.91	3769570.00	16.46850
371715.91	3769570.00	17.62027	371740.91	3769570.00	18.51698
371765.91	3769570.00	19.16705	371790.91	3769570.00	19.52788
371815.91	3769570.00	19.70872	371840.91	3769570.00	19.69143
371865.91	3769570.00	19.55575	371890.91	3769570.00	19.25967
371915.91	3769570.00	18.92165	371940.91	3769570.00	18.58762
371965.91	3769570.00	18.41842	371990.91	3769570.00	18.46271
372015.91	3769570.00	18.79955	372040.91	3769570.00	19.38847
372065.91	3769570.00	20.23288	372090.91	3769570.00	21.19810
372115.91	3769570.00	22.18628	372140.91	3769570.00	23.01598
372165.91	3769570.00	23.66117	372190.91	3769570.00	23.99301
372215.91	3769570.00	24.11128	372240.91	3769570.00	23.97488
372265.91	3769570.00	23.71451	372290.91	3769570.00	23.31641
372315.91	3769570.00	22.89432	372340.91	3769570.00	22.40803
372365.91	3769570.00	21.93953	371340.91	3769595.00	9.06107
371365.91	3769595.00	9.38684	371390.91	3769595.00	7.92555
371415.91	3769595.00	8.03686	371440.91	3769595.00	8.17330
371465.91	3769595.00	8.38733	371490.91	3769595.00	8.71012
371515.91	3769595.00	9.16119	371540.91	3769595.00	9.72795
371565.91	3769595.00	10.40654	371590.91	3769595.00	11.19587
371615.91	3769595.00	12.12582	371640.91	3769595.00	13.18375
371665.91	3769595.00	14.32926	371690.91	3769595.00	15.45700
371715.91	3769595.00	16.47444	371740.91	3769595.00	17.26650
371765.91	3769595.00	17.82709	371790.91	3769595.00	18.15929
371815.91	3769595.00	18.32092	371840.91	3769595.00	18.32037
371865.91	3769595.00	18.19864	371890.91	3769595.00	17.95115
371915.91	3769595.00	17.64534	371940.91	3769595.00	17.32636
371965.91	3769595.00	17.10897	371990.91	3769595.00	17.05736
372015.91	3769595.00	17.24922	372040.91	3769595.00	17.67745
372065.91	3769595.00	18.33532	372090.91	3769595.00	19.15043
372115.91	3769595.00	20.05239	372140.91	3769595.00	20.89572
372165.91	3769595.00	21.60194	372190.91	3769595.00	22.08606
372215.91	3769595.00	22.35006	372240.91	3769595.00	22.39656
372265.91	3769595.00	22.26455	372290.91	3769595.00	21.99570
372315.91	3769595.00	21.65355	372340.91	3769595.00	21.25645

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372365.91	3769595.00	20.84358	372390.91	3769170.00	27.30983
372415.91	3769170.00	25.66719	372390.91	3769195.00	27.08271
372415.91	3769195.00	25.39008	372324.62	3768512.50	12.79850
372240.62	3768308.50	7.71098	373073.12	3769250.00	8.50648
370888.16	3768917.00	8.52394	373073.78	3769299.75	8.24988
373076.31	3768939.25	8.71566	372601.41	3768361.25	6.68043
372301.84	3768327.50	8.90654	371747.22	3768345.00	5.34279
372389.25	3769329.00	28.16172	371296.72	3768889.25	22.15031
372959.97	3768868.75	9.34494	371735.91	3768977.75	324.55173
371738.66	3768975.00	254.10521	371763.66	3768974.50	0.00000
371788.62	3768974.25	190.22263	371791.47	3768974.00	360.56509
371794.09	3768976.75	481.52310	371794.53	3769001.75	944.70544
371794.62	3769008.00	1039.25562	371769.62	3769008.50	0.00000
371744.62	3769009.00	192.91345	371736.47	3769009.00	314.06714
371736.03	3768984.00	378.04074	371735.91	3768977.75	324.55173

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	1791.84192 AT (	371815.91,	3769020.00,	49.96,	0.00)		DC	NA
	2ND HIGHEST VALUE IS	1267.54871 AT (	371790.91,	3769020.00,	50.20,	0.00)		DC	NA
	3RD HIGHEST VALUE IS	1203.21692 AT (	371815.91,	3769045.00,	49.95,	0.00)		DC	NA
	4TH HIGHEST VALUE IS	1199.52051 AT (	371815.91,	3768995.00,	49.95,	0.00)		DC	NA
	5TH HIGHEST VALUE IS	1067.54895 AT (	371790.91,	3769045.00,	50.30,	0.00)		DC	NA
	6TH HIGHEST VALUE IS	1039.25562 AT (	371794.62,	3769008.00,	50.20,	0.00)		DC	NA
	7TH HIGHEST VALUE IS	984.97101 AT (	371840.91,	3769020.00,	49.42,	0.00)		DC	NA
	8TH HIGHEST VALUE IS	944.70544 AT (	371794.53,	3769001.75,	50.20,	0.00)		DC	NA
	9TH HIGHEST VALUE IS	939.67767 AT (	371840.91,	3769045.00,	49.50,	0.00)		DC	NA
	10TH HIGHEST VALUE IS	783.85883 AT (	371840.91,	3768995.00,	49.45,	0.00)		DC	NA

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

**MODELOPTs:
CONC URBAN ELEV NOSTD
HE>ZI

*** Message Summary : ISCST3 Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 1673 Informational Message(s)

A Total of 1673 Calm Hours Identified

******** FATAL ERROR MESSAGES ********

```
           ***  NONE  ***


********   WARNING MESSAGES   ********
           ***  NONE  ***


***********************************
*** ISCST3 Finishes Successfully ***
***********************************
```

Appendix B-2
Well Cellar Air Dispersion Modeling

```
             ISCST3X  PC (32 BIT) VERSION  4.0.1
            (C) COPYRIGHT 1991-2002, Trinity Consultants

Run Began on  7/07/2005 at 13:26:32

** BREEZE ISC GIS Pro v4.0.9 - B:\Air Modeling\HHRA\9195_cellars.dat
** Trinity Consultants


CO STARTING
CO TITLEONE  BreitBurn Drill Site
CO MODELOPT  CONC  URBAN  NOSTD  HE>ZI
CO AVERTIME  ANNUAL
CO POLLUTID  OTHER
CO TERRHGTS  ELEV
CO RUNORNOT  RUN
CO ERRORFIL  "C:\DOCUMENTS AND SETTINGS\CKELLY\MY DOCUMENTS\BREIT BURN\MODELING\9195_ISC_POINT.ERR"
CO FINISHED

SO STARTING
SO ELEVUNIT  METERS
SO LOCATION  SRC4  POINT  371756.6  3768989.7  50
** SRCDESCR  NC2
SO LOCATION  SRC3  POINT  371747.8  3768990.0  50
** SRCDESCR  NC1
SO LOCATION  SRC5  POINT  371770.5  3768989.6  50
** SRCDESCR  NC3
SO LOCATION  SRC6  POINT  371779.1  3768989.5  50
** SRCDESCR  NC4
SO LOCATION  SRC7  POINT  371755.4  3768981.6  50
** SRCDESCR  SC1
SO LOCATION  SRC8  POINT  371777.8  3768981.3  50
** SRCDESCR  SC2
SO SRCPARAM  SRC4  1.000000E+00  7.62  293  0.1  8.3
SO SRCPARAM  SRC3  1.000000E+00  7.62  293  0.1  8.3
SO SRCPARAM  SRC5  1.000000E+00  7.62  293  0.1  8.3
SO SRCPARAM  SRC6  1.000000E+00  7.62  293  0.1  8.3
SO SRCPARAM  SRC7  1.000000E+00  7.62  293  0.1  8.2
SO SRCPARAM  SRC8  1.000000E+00  7.62  293  0.1  8.2
SO BUILDHGT  SRC4  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC4  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC4  39.0  39.0  39.0  39.0  39.0  39.0
```

```
SO BUILDHGT  SRC4  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC4  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC4  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDWID  SRC4  11.53  12.8  13.67  14.13  14.16  13.76
SO BUILDWID  SRC4  12.94  11.73  10.16  11.45  12.73  13.64
SO BUILDWID  SRC4  14.12  14.18  13.81  13.02  11.83  10.28
SO BUILDWID  SRC4  11.53  12.8  13.67  14.13  14.16  13.76
SO BUILDWID  SRC4  12.94  11.73  10.16  11.45  12.73  13.64
SO BUILDWID  SRC4  14.12  14.18  13.81  13.02  11.83  10.28
SO BUILDHGT  SRC3  13.7  13.7  13.7  39.0  39.0  39.0
SO BUILDHGT  SRC3  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC3  39.0  39.0  39.0  13.7  13.7  13.7
SO BUILDHGT  SRC3  13.7  13.7  13.7  39.0  39.0  39.0
SO BUILDHGT  SRC3  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC3  39.0  39.0  39.0  13.7  13.7  13.7
SO BUILDWID  SRC3  59.57  59.41  57.45  14.06  14.06  13.76
SO BUILDWID  SRC3  12.94  11.73  10.16  11.45  12.73  13.64
SO BUILDWID  SRC3  14.06  14.06  13.81  59.07  59.64  58.39
SO BUILDWID  SRC3  59.57  59.41  57.45  14.06  14.06  13.76
SO BUILDWID  SRC3  12.94  11.73  10.16  11.45  12.73  13.64
SO BUILDWID  SRC3  14.06  14.06  13.81  59.07  59.64  58.39
SO BUILDHGT  SRC5  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC5  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC5  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC5  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC5  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC5  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDWID  SRC5  11.53  12.8  13.67  14.13  14.16  13.76
SO BUILDWID  SRC5  12.94  11.73  10.16  11.45  12.73  13.64
SO BUILDWID  SRC5  14.12  14.18  13.81  13.02  11.83  10.28
SO BUILDWID  SRC5  11.53  12.8  13.67  14.13  14.16  13.76
SO BUILDWID  SRC5  12.94  11.73  10.16  11.45  12.73  13.64
SO BUILDWID  SRC5  14.12  14.18  13.81  13.02  11.83  10.28
SO BUILDHGT  SRC6  13.7  13.7  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC6  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC6  39.0  39.0  13.7  13.7  13.7  13.7
SO BUILDHGT  SRC6  13.7  13.7  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC6  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC6  39.0  39.0  13.7  13.7  13.7  13.7
SO BUILDWID  SRC6  59.57  59.41  13.67  14.06  14.06  13.76
SO BUILDWID  SRC6  12.94  11.73  10.16  11.45  12.73  13.64
SO BUILDWID  SRC6  14.06  14.06  56.71  59.07  59.64  58.39
SO BUILDWID  SRC6  59.57  59.41  13.67  14.06  14.06  13.76
SO BUILDWID  SRC6  12.94  11.73  10.16  11.45  12.73  13.64
```

```
SO BUILDWID  SRC6  14.06  14.06  56.71  59.07  59.64  58.39
SO BUILDHGT  SRC7  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC7  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC7  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC7  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC7  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC7  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDWID  SRC7  11.53  12.8  13.67  14.13  14.16  13.76
SO BUILDWID  SRC7  12.94  11.73  10.16  11.45  12.73  13.64
SO BUILDWID  SRC7  14.12  14.18  13.81  13.02  11.83  10.28
SO BUILDWID  SRC7  11.53  12.8  13.67  14.13  14.16  13.76
SO BUILDWID  SRC7  12.94  11.73  10.16  11.45  12.73  13.64
SO BUILDWID  SRC7  14.12  14.18  13.81  13.02  11.83  10.28
SO BUILDHGT  SRC8  13.7  13.7  13.7  13.7  39.0  39.0
SO BUILDHGT  SRC8  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC8  39.0  39.0  39.0  39.0  13.7  13.7
SO BUILDHGT  SRC8  13.7  13.7  13.7  13.7  39.0  39.0
SO BUILDHGT  SRC8  39.0  39.0  39.0  39.0  39.0  39.0
SO BUILDHGT  SRC8  39.0  39.0  39.0  39.0  13.7  13.7
SO BUILDWID  SRC8  59.57  59.41  57.45  53.73  14.16  13.76
SO BUILDWID  SRC8  12.94  11.73  10.16  11.45  12.73  13.64
SO BUILDWID  SRC8  14.12  14.18  13.81  13.02  59.64  58.39
SO BUILDWID  SRC8  59.57  59.41  57.45  53.73  14.16  13.76
SO BUILDWID  SRC8  12.94  11.73  10.16  11.45  12.73  13.64
SO BUILDWID  SRC8  14.12  14.18  13.81  13.02  59.64  58.39
SO SRCGROUP  ALL
SO FINISHED

RE STARTING
RE ELEVUNIT  METERS
RE DISCCART  371340.9  3768569.9  60.45
RE DISCCART  371365.9  3768569.9  59.45
RE DISCCART  371390.9  3768569.9  57.31
RE DISCCART  371415.9  3768569.9  56.48
RE DISCCART  371440.9  3768569.9  55.07
RE DISCCART  371465.9  3768569.9  54.61
RE DISCCART  371490.9  3768569.9  54.2
RE DISCCART  371515.9  3768569.9  53.96
RE DISCCART  371540.9  3768569.9  53.42
RE DISCCART  371565.9  3768569.9  53.2
RE DISCCART  371590.9  3768569.9  52.54
RE DISCCART  371615.9  3768569.9  52.35
RE DISCCART  371640.9  3768569.9  51.74
RE DISCCART  371665.9  3768569.9  51.58
```

```
RE DISCCART  371690.9  3768569.9  51.03
RE DISCCART  371715.9  3768569.9  50.83
RE DISCCART  371740.9  3768569.9  50.42
RE DISCCART  371765.9  3768569.9  50.11
RE DISCCART  371790.9  3768569.9  49.72
RE DISCCART  371815.9  3768569.9  49.58
RE DISCCART  371840.9  3768569.9  49.2
RE DISCCART  371865.9  3768569.9  48.97
RE DISCCART  371890.9  3768569.9  48.44
RE DISCCART  371915.9  3768569.9  48.11
RE DISCCART  371940.9  3768569.9  47.25
RE DISCCART  371965.9  3768569.9  46.87
RE DISCCART  371990.9  3768569.9  46.03
RE DISCCART  372015.9  3768569.9  45.69
RE DISCCART  372040.9  3768569.9  45.03
RE DISCCART  372065.9  3768569.9  44.78
RE DISCCART  372090.9  3768569.9  44.22
RE DISCCART  372115.9  3768569.9  43.87
RE DISCCART  372140.9  3768569.9  43.23
RE DISCCART  372165.9  3768569.9  42.9
RE DISCCART  372190.9  3768569.9  42.24
RE DISCCART  372215.9  3768569.9  41.97
RE DISCCART  372240.9  3768569.9  41.42
RE DISCCART  372265.9  3768569.9  41.11
RE DISCCART  372290.9  3768569.9  40.53
RE DISCCART  372315.9  3768569.9  40.28
RE DISCCART  372340.9  3768569.9  39.72
RE DISCCART  372365.9  3768569.9  39.46
RE DISCCART  371340.9  3768594.9  60.09
RE DISCCART  371365.9  3768594.9  58.94
RE DISCCART  371390.9  3768594.9  57.22
RE DISCCART  371415.9  3768594.9  56.25
RE DISCCART  371440.9  3768594.9  55.17
RE DISCCART  371465.9  3768594.9  54.6
RE DISCCART  371490.9  3768594.9  54.17
RE DISCCART  371515.9  3768594.9  53.89
RE DISCCART  371540.9  3768594.9  53.45
RE DISCCART  371565.9  3768594.9  53.1
RE DISCCART  371590.9  3768594.9  52.7
RE DISCCART  371615.9  3768594.9  52.4
RE DISCCART  371640.9  3768594.9  52
RE DISCCART  371665.9  3768594.9  51.75
RE DISCCART  371690.9  3768594.9  51.1
```

```
RE DISCCART  371715.9  3768594.9  50.95
RE DISCCART  371740.9  3768594.9  50.53
RE DISCCART  371765.9  3768594.9  50.3
RE DISCCART  371790.9  3768594.9  49.97
RE DISCCART  371815.9  3768594.9  49.75
RE DISCCART  371840.9  3768594.9  49.35
RE DISCCART  371865.9  3768594.9  49.1
RE DISCCART  371890.9  3768594.9  48.63
RE DISCCART  371915.9  3768594.9  48.33
RE DISCCART  371940.9  3768594.9  47.57
RE DISCCART  371965.9  3768594.9  47.08
RE DISCCART  371990.9  3768594.9  46.24
RE DISCCART  372015.9  3768594.9  45.8
RE DISCCART  372040.9  3768594.9  45.13
RE DISCCART  372065.9  3768594.9  44.9
RE DISCCART  372090.9  3768594.9  44.38
RE DISCCART  372115.9  3768594.9  44.05
RE DISCCART  372140.9  3768594.9  43.45
RE DISCCART  372165.9  3768594.9  43.1
RE DISCCART  372190.9  3768594.9  42.53
RE DISCCART  372215.9  3768594.9  42.15
RE DISCCART  372240.9  3768594.9  41.6
RE DISCCART  372265.9  3768594.9  41.3
RE DISCCART  372290.9  3768594.9  40.67
RE DISCCART  372315.9  3768594.9  40.35
RE DISCCART  372340.9  3768594.9  39.85
RE DISCCART  372365.9  3768594.9  39.55
RE DISCCART  371340.9  3768619.9  59.56
RE DISCCART  371365.9  3768619.9  58.72
RE DISCCART  371390.9  3768619.9  56.78
RE DISCCART  371415.9  3768619.9  56.09
RE DISCCART  371440.9  3768619.9  54.92
RE DISCCART  371465.9  3768619.9  54.61
RE DISCCART  371490.9  3768619.9  54.03
RE DISCCART  371515.9  3768619.9  53.81
RE DISCCART  371540.9  3768619.9  53.42
RE DISCCART  371565.9  3768619.9  53.11
RE DISCCART  371590.9  3768619.9  52.73
RE DISCCART  371615.9  3768619.9  52.5
RE DISCCART  371640.9  3768619.9  51.95
RE DISCCART  371665.9  3768619.9  51.61
RE DISCCART  371690.9  3768619.9  51.2
RE DISCCART  371715.9  3768619.9  50.97
RE DISCCART  371740.9  3768619.9  50.53
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RE DISCCART  371765.9  3768619.9  50.4
RE DISCCART  371790.9  3768619.9  50.02
RE DISCCART  371815.9  3768619.9  49.81
RE DISCCART  371840.9  3768619.9  49.42
RE DISCCART  371865.9  3768619.9  49.11
RE DISCCART  371890.9  3768619.9  48.73
RE DISCCART  371915.9  3768619.9  48.37
RE DISCCART  371940.9  3768619.9  47.53
RE DISCCART  371965.9  3768619.9  47.11
RE DISCCART  371990.9  3768619.9  46.25
RE DISCCART  372015.9  3768619.9  45.85
RE DISCCART  372040.9  3768619.9  45.25
RE DISCCART  372065.9  3768619.9  45.11
RE DISCCART  372090.9  3768619.9  44.53
RE DISCCART  372115.9  3768619.9  44.11
RE DISCCART  372140.9  3768619.9  43.53
RE DISCCART  372165.9  3768619.9  43.23
RE DISCCART  372190.9  3768619.9  42.53
RE DISCCART  372215.9  3768619.9  42.31
RE DISCCART  372240.9  3768619.9  41.72
RE DISCCART  372265.9  3768619.9  41.4
RE DISCCART  372290.9  3768619.9  40.74
RE DISCCART  372315.9  3768619.9  40.47
RE DISCCART  372340.9  3768619.9  39.92
RE DISCCART  372365.9  3768619.9  39.61
RE DISCCART  371340.9  3768644.9  59.19
RE DISCCART  371365.9  3768644.9  58.34
RE DISCCART  371390.9  3768644.9  56.75
RE DISCCART  371415.9  3768644.9  55.85
RE DISCCART  371440.9  3768644.9  54.8
RE DISCCART  371465.9  3768644.9  54.5
RE DISCCART  371490.9  3768644.9  54.1
RE DISCCART  371515.9  3768644.9  53.85
RE DISCCART  371540.9  3768644.9  53.45
RE DISCCART  371565.9  3768644.9  53.2
RE DISCCART  371590.9  3768644.9  52.85
RE DISCCART  371615.9  3768644.9  52.57
RE DISCCART  371640.9  3768644.9  51.95
RE DISCCART  371665.9  3768644.9  51.65
RE DISCCART  371690.9  3768644.9  51.3
RE DISCCART  371715.9  3768644.9  51.1
RE DISCCART  371740.9  3768644.9  50.7
RE DISCCART  371765.9  3768644.9  50.48
RE DISCCART  371790.9  3768644.9  50.1
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RE DISCCART  371815.9  3768644.9  49.88
RE DISCCART  371840.9  3768644.9  49.47
RE DISCCART  371865.9  3768644.9  49.2
RE DISCCART  371890.9  3768644.9  48.8
RE DISCCART  371915.9  3768644.9  48.45
RE DISCCART  371940.9  3768644.9  47.85
RE DISCCART  371965.9  3768644.9  47.4
RE DISCCART  371990.9  3768644.9  46.6
RE DISCCART  372015.9  3768644.9  46.21
RE DISCCART  372040.9  3768644.9  45.8
RE DISCCART  372065.9  3768644.9  45.35
RE DISCCART  372090.9  3768644.9  44.67
RE DISCCART  372115.9  3768644.9  44.33
RE DISCCART  372140.9  3768644.9  43.8
RE DISCCART  372165.9  3768644.9  43.35
RE DISCCART  372190.9  3768644.9  42.8
RE DISCCART  372215.9  3768644.9  42.45
RE DISCCART  372240.9  3768644.9  41.88
RE DISCCART  372265.9  3768644.9  41.6
RE DISCCART  372290.9  3768644.9  41
RE DISCCART  372315.9  3768644.9  40.6
RE DISCCART  372340.9  3768644.9  40.1
RE DISCCART  372365.9  3768644.9  39.8
RE DISCCART  371340.9  3768669.9  58.73
RE DISCCART  371365.9  3768669.9  58.06
RE DISCCART  371390.9  3768669.9  56.56
RE DISCCART  371415.9  3768669.9  55.87
RE DISCCART  371440.9  3768669.9  54.76
RE DISCCART  371465.9  3768669.9  54.61
RE DISCCART  371490.9  3768669.9  54.04
RE DISCCART  371515.9  3768669.9  53.96
RE DISCCART  371540.9  3768669.9  53.5
RE DISCCART  371565.9  3768669.9  53.28
RE DISCCART  371590.9  3768669.9  52.9
RE DISCCART  371615.9  3768669.9  52.46
RE DISCCART  371640.9  3768669.9  52.02
RE DISCCART  371665.9  3768669.9  51.78
RE DISCCART  371690.9  3768669.9  51.42
RE DISCCART  371715.9  3768669.9  51.17
RE DISCCART  371740.9  3768669.9  50.72
RE DISCCART  371765.9  3768669.9  50.53
RE DISCCART  371790.9  3768669.9  50.04
RE DISCCART  371815.9  3768669.9  49.96
RE DISCCART  371840.9  3768669.9  49.5
```

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RE DISCCART  371865.9  3768669.9  49.31
RE DISCCART  371890.9  3768669.9  48.75
RE DISCCART  371915.9  3768669.9  48.61
RE DISCCART  371940.9  3768669.9  47.94
RE DISCCART  371965.9  3768669.9  47.58
RE DISCCART  371990.9  3768669.9  46.74
RE DISCCART  372015.9  3768669.9  46.4
RE DISCCART  372040.9  3768669.9  45.74
RE DISCCART  372065.9  3768669.9  45.4
RE DISCCART  372090.9  3768669.9  44.75
RE DISCCART  372115.9  3768669.9  44.4
RE DISCCART  372140.9  3768669.9  43.75
RE DISCCART  372165.9  3768669.9  43.46
RE DISCCART  372190.9  3768669.9  42.76
RE DISCCART  372215.9  3768669.9  42.61
RE DISCCART  372240.9  3768669.9  42.03
RE DISCCART  372265.9  3768669.9  41.73
RE DISCCART  372290.9  3768669.9  41.03
RE DISCCART  372315.9  3768669.9  40.81
RE DISCCART  372340.9  3768669.9  40.22
RE DISCCART  372365.9  3768669.9  39.96
RE DISCCART  371340.9  3768694.9  58.49
RE DISCCART  371365.9  3768694.9  57.72
RE DISCCART  371390.9  3768694.9  56.57
RE DISCCART  371415.9  3768694.9  56
RE DISCCART  371440.9  3768694.9  55.24
RE DISCCART  371465.9  3768694.9  54.75
RE DISCCART  371490.9  3768694.9  54.3
RE DISCCART  371515.9  3768694.9  54.05
RE DISCCART  371540.9  3768694.9  53.6
RE DISCCART  371565.9  3768694.9  53.35
RE DISCCART  371590.9  3768694.9  52.82
RE DISCCART  371615.9  3768694.9  52.6
RE DISCCART  371640.9  3768694.9  52.1
RE DISCCART  371665.9  3768694.9  51.85
RE DISCCART  371690.9  3768694.9  51.45
RE DISCCART  371715.9  3768694.9  51.1
RE DISCCART  371740.9  3768694.9  50.8
RE DISCCART  371765.9  3768694.9  50.6
RE DISCCART  371790.9  3768694.9  50.2
RE DISCCART  371815.9  3768694.9  50
RE DISCCART  371840.9  3768694.9  49.6
RE DISCCART  371865.9  3768694.9  49.4
RE DISCCART  371890.9  3768694.9  49.03
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RE DISCCART  371915.9  3768694.9  48.8
RE DISCCART  371940.9  3768694.9  48.1
RE DISCCART  371965.9  3768694.9  47.71
RE DISCCART  371990.9  3768694.9  47
RE DISCCART  372015.9  3768694.9  46.6
RE DISCCART  372040.9  3768694.9  45.95
RE DISCCART  372065.9  3768694.9  45.6
RE DISCCART  372090.9  3768694.9  44.95
RE DISCCART  372115.9  3768694.9  44.6
RE DISCCART  372140.9  3768694.9  43.97
RE DISCCART  372165.9  3768694.9  43.6
RE DISCCART  372190.9  3768694.9  43.1
RE DISCCART  372215.9  3768694.9  42.8
RE DISCCART  372240.9  3768694.9  42.3
RE DISCCART  372265.9  3768694.9  41.9
RE DISCCART  372290.9  3768694.9  41.32
RE DISCCART  372315.9  3768694.9  40.95
RE DISCCART  372340.9  3768694.9  40.45
RE DISCCART  372365.9  3768694.9  40.1
RE DISCCART  371340.9  3768719.9  58.05
RE DISCCART  371365.9  3768719.9  57.57
RE DISCCART  371390.9  3768719.9  56.52
RE DISCCART  371415.9  3768719.9  56.11
** RCPDESCR  Elev 40ft
RE DISCCART  371440.9  3768719.9  55.25
** RCPDESCR  Elev 40ft
RE DISCCART  371465.9  3768719.9  54.87
RE DISCCART  371490.9  3768719.9  54.26
RE DISCCART  371515.9  3768719.9  54.11
RE DISCCART  371540.9  3768719.9  53.53
RE DISCCART  371565.9  3768719.9  53.31
RE DISCCART  371590.9  3768719.9  52.75
RE DISCCART  371615.9  3768719.9  52.61
RE DISCCART  371640.9  3768719.9  52.19
RE DISCCART  371665.9  3768719.9  51.87
RE DISCCART  371690.9  3768719.9  51.42
RE DISCCART  371715.9  3768719.9  51.2
RE DISCCART  371740.9  3768719.9  50.74
RE DISCCART  371765.9  3768719.9  50.61
RE DISCCART  371790.9  3768719.9  50.23
RE DISCCART  371815.9  3768719.9  50.11
RE DISCCART  371840.9  3768719.9  49.7
RE DISCCART  371865.9  3768719.9  49.46
RE DISCCART  371890.9  3768719.9  49.03
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RE DISCCART  371915.9  3768719.9  48.81
RE DISCCART  371940.9  3768719.9  48.07
RE DISCCART  371965.9  3768719.9  47.81
RE DISCCART  371990.9  3768719.9  47.03
RE DISCCART  372015.9  3768719.9  46.61
RE DISCCART  372040.9  3768719.9  46.03
RE DISCCART  372065.9  3768719.9  45.61
RE DISCCART  372090.9  3768719.9  45.03
RE DISCCART  372115.9  3768719.9  44.61
RE DISCCART  372140.9  3768719.9  44.03
RE DISCCART  372165.9  3768719.9  43.64
RE DISCCART  372190.9  3768719.9  43.04
RE DISCCART  372215.9  3768719.9  42.87
RE DISCCART  372240.9  3768719.9  42.25
RE DISCCART  372265.9  3768719.9  41.96
RE DISCCART  372290.9  3768719.9  41.26
RE DISCCART  372315.9  3768719.9  41.08
RE DISCCART  372340.9  3768719.9  40.52
RE DISCCART  372365.9  3768719.9  40.28
RE DISCCART  371340.9  3768744.9  57.82
RE DISCCART  371365.9  3768744.9  57.32
RE DISCCART  371390.9  3768744.9  56.52
RE DISCCART  371415.9  3768744.9  56.1
** RCPDESCR  Elev 40ft
RE DISCCART  371440.9  3768744.9  55.45
** RCPDESCR  Elev 40ft
RE DISCCART  371465.9  3768744.9  55
RE DISCCART  371490.9  3768744.9  54.45
RE DISCCART  371515.9  3768744.9  54.1
RE DISCCART  371540.9  3768744.9  53.6
RE DISCCART  371565.9  3768744.9  53.3
RE DISCCART  371590.9  3768744.9  52.95
RE DISCCART  371615.9  3768744.9  52.6
RE DISCCART  371640.9  3768744.9  52.13
RE DISCCART  371665.9  3768744.9  51.95
RE DISCCART  371690.9  3768744.9  51.45

RE DISCCART  371715.9  3768744.9  51.2
RE DISCCART  371740.9  3768744.9  50.95
RE DISCCART  371765.9  3768744.9  50.7
RE DISCCART  371790.9  3768744.9  50.32
RE DISCCART  371815.9  3768744.9  50.1
RE DISCCART  371840.9  3768744.9  49.8
RE DISCCART  371865.9  3768744.9  49.5
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RE DISCCART  371890.9  3768744.9  49.1
RE DISCCART  371915.9  3768744.9  48.83
RE DISCCART  371940.9  3768744.9  48.3
RE DISCCART  371965.9  3768744.9  47.85
RE DISCCART  371990.9  3768744.9  47.1
RE DISCCART  372015.9  3768744.9  46.8
RE DISCCART  372040.9  3768744.9  46.1
RE DISCCART  372065.9  3768744.9  45.8
RE DISCCART  372090.9  3768744.9  45.1
RE DISCCART  372115.9  3768744.9  44.8
RE DISCCART  372140.9  3768744.9  44.1
RE DISCCART  372165.9  3768744.9  43.8
RE DISCCART  372190.9  3768744.9  43.3
RE DISCCART  372215.9  3768744.9  42.95
RE DISCCART  372240.9  3768744.9  42.45
RE DISCCART  372265.9  3768744.9  42.1
RE DISCCART  372290.9  3768744.9  41.6
RE DISCCART  372315.9  3768744.9  41.15
RE DISCCART  372340.9  3768744.9  40.63
RE DISCCART  372365.9  3768744.9  40.4
RE DISCCART  371340.9  3768769.9  57.52
RE DISCCART  371365.9  3768769.9  57.01
RE DISCCART  371390.9  3768769.9  56.25
RE DISCCART  371415.9  3768769.9  55.96
RE DISCCART  371440.9  3768769.9  55.4
RE DISCCART  371465.9  3768769.9  54.96
RE DISCCART  371490.9  3768769.9  54.42
RE DISCCART  371515.9  3768769.9  54.11
RE DISCCART  371540.9  3768769.9  53.53
RE DISCCART  371565.9  3768769.9  53.33
RE DISCCART  371590.9  3768769.9  52.92
RE DISCCART  371615.9  3768769.9  52.61
RE DISCCART  371640.9  3768769.9  52.2
RE DISCCART  371665.9  3768769.9  51.96
RE DISCCART  371690.9  3768769.9  51.5
RE DISCCART  371715.9  3768769.9  51.31
RE DISCCART  371740.9  3768769.9  50.92
RE DISCCART  371765.9  3768769.9  50.7
RE DISCCART  371790.9  3768769.9  50.42
RE DISCCART  371815.9  3768769.9  50.11
RE DISCCART  371840.9  3768769.9  49.73
RE DISCCART  371865.9  3768769.9  49.5
RE DISCCART  371890.9  3768769.9  49.03
RE DISCCART  371915.9  3768769.9  48.87
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RE DISCCART  371940.9  3768769.9  48.23
RE DISCCART  371965.9  3768769.9  47.87
RE DISCCART  371990.9  3768769.9  47.03
RE DISCCART  372015.9  3768769.9  46.81
RE DISCCART  372040.9  3768769.9  46.03
RE DISCCART  372065.9  3768769.9  45.81
RE DISCCART  372090.9  3768769.9  45.06
RE DISCCART  372115.9  3768769.9  44.85
RE DISCCART  372140.9  3768769.9  44.05
RE DISCCART  372165.9  3768769.9  43.85
RE DISCCART  372190.9  3768769.9  43.23
RE DISCCART  372215.9  3768769.9  42.96
RE DISCCART  372240.9  3768769.9  42.42
RE DISCCART  372265.9  3768769.9  42.11
RE DISCCART  372290.9  3768769.9  41.53
RE DISCCART  372315.9  3768769.9  41.31
RE DISCCART  372340.9  3768769.9  40.73
RE DISCCART  372365.9  3768769.9  40.47
RE DISCCART  371340.9  3768794.9  57.19
RE DISCCART  371365.9  3768794.9  56.46
RE DISCCART  371390.9  3768794.9  56.02
RE DISCCART  371415.9  3768794.9  55.64
RE DISCCART  371440.9  3768794.9  55.17
RE DISCCART  371465.9  3768794.9  54.82
RE DISCCART  371490.9  3768794.9  54.42
RE DISCCART  371515.9  3768794.9  54.1
RE DISCCART  371540.9  3768794.9  53.6
RE DISCCART  371565.9  3768794.9  53.3
RE DISCCART  371590.9  3768794.9  52.95
RE DISCCART  371615.9  3768794.9  52.6
RE DISCCART  371640.9  3768794.9  52.3
RE DISCCART  371665.9  3768794.9  52
RE DISCCART  371690.9  3768794.9  51.6
RE DISCCART  371715.9  3768794.9  51.33
RE DISCCART  371740.9  3768794.9  51
RE DISCCART  371765.9  3768794.9  50.8
RE DISCCART  371790.9  3768794.9  50.45
RE DISCCART  371815.9  3768794.9  50.1
RE DISCCART  371840.9  3768794.9  49.8
RE DISCCART  371865.9  3768794.9  49.5
RE DISCCART  371890.9  3768794.9  49.1
RE DISCCART  371915.9  3768794.9  48.82
RE DISCCART  371940.9  3768794.9  48.3
RE DISCCART  371965.9  3768794.9  47.85
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RE DISCCART  371990.9  3768794.9  47.2
RE DISCCART  372015.9  3768794.9  46.83
RE DISCCART  372040.9  3768794.9  46.3
RE DISCCART  372065.9  3768794.9  45.85
RE DISCCART  372090.9  3768794.9  45.3
RE DISCCART  372115.9  3768794.9  44.85
RE DISCCART  372140.9  3768794.9  44.3
RE DISCCART  372165.9  3768794.9  43.85
RE DISCCART  372190.9  3768794.9  43.35
RE DISCCART  372215.9  3768794.9  42.98
RE DISCCART  372240.9  3768794.9  42.5
RE DISCCART  372265.9  3768794.9  42.15
RE DISCCART  372290.9  3768794.9  41.73
RE DISCCART  372315.9  3768794.9  41.4
RE DISCCART  372340.9  3768794.9  40.88
RE DISCCART  372365.9  3768794.9  40.6
RE DISCCART  371340.9  3768819.9  56.73
RE DISCCART  371365.9  3768819.9  56.09
RE DISCCART  371390.9  3768819.9  55.49
RE DISCCART  371415.9  3768819.9  55.27
** RCPDESCR  Elev 40ft
RE DISCCART  371440.9  3768819.9  54.9
RE DISCCART  371465.9  3768819.9  54.67
RE DISCCART  371490.9  3768819.9  54.23
RE DISCCART  371515.9  3768819.9  54
RE DISCCART  371540.9  3768819.9  53.53
RE DISCCART  371565.9  3768819.9  53.31
RE DISCCART  371590.9  3768819.9  52.92
RE DISCCART  371615.9  3768819.9  52.61
RE DISCCART  371640.9  3768819.9  52.23
RE DISCCART  371665.9  3768819.9  52
RE DISCCART  371690.9  3768819.9  51.53
RE DISCCART  371715.9  3768819.9  51.46
RE DISCCART  371740.9  3768819.9  51
RE DISCCART  371765.9  3768819.9  50.81
RE DISCCART  371790.9  3768819.9  50.42
RE DISCCART  371815.9  3768819.9  50.11
RE DISCCART  371840.9  3768819.9  49.73
RE DISCCART  371865.9  3768819.9  49.5
RE DISCCART  371890.9  3768819.9  49.03
RE DISCCART  371915.9  3768819.9  48.81
RE DISCCART  371940.9  3768819.9  48.23
RE DISCCART  371965.9  3768819.9  47.87
RE DISCCART  371990.9  3768819.9  47.23
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RE DISCCART  372015.9  3768819.9  46.87
RE DISCCART  372040.9  3768819.9  46.23
RE DISCCART  372065.9  3768819.9  45.87
RE DISCCART  372090.9  3768819.9  45.23
RE DISCCART  372115.9  3768819.9  44.87
RE DISCCART  372140.9  3768819.9  44.23
RE DISCCART  372165.9  3768819.9  43.87
RE DISCCART  372190.9  3768819.9  43.25
RE DISCCART  372215.9  3768819.9  43
RE DISCCART  372240.9  3768819.9  42.52
RE DISCCART  372265.9  3768819.9  42.28
RE DISCCART  372290.9  3768819.9  41.73
RE DISCCART  372315.9  3768819.9  41.46
RE DISCCART  372340.9  3768819.9  40.92
RE DISCCART  372365.9  3768819.9  40.64
RE DISCCART  371340.9  3768844.9  56.45
RE DISCCART  371365.9  3768844.9  55.7
RE DISCCART  371390.9  3768844.9  54.8
RE DISCCART  371415.9  3768844.9  54.7
RE DISCCART  371440.9  3768844.9  54.57
RE DISCCART  371465.9  3768844.9  54.37
RE DISCCART  371490.9  3768844.9  54.1
RE DISCCART  371515.9  3768844.9  53.95
RE DISCCART  371540.9  3768844.9  53.6
RE DISCCART  371565.9  3768844.9  53.3
RE DISCCART  371590.9  3768844.9  52.95
RE DISCCART  371615.9  3768844.9  52.65
RE DISCCART  371640.9  3768844.9  52.23
RE DISCCART  371665.9  3768844.9  51.98
RE DISCCART  371690.9  3768844.9  51.6
RE DISCCART  371715.9  3768844.9  51.32
RE DISCCART  371740.9  3768844.9  51
RE DISCCART  371765.9  3768844.9  50.7
RE DISCCART  371790.9  3768844.9  50.3
RE DISCCART  371815.9  3768844.9  50.1
RE DISCCART  371840.9  3768844.9  49.7
RE DISCCART  371865.9  3768844.9  49.47
RE DISCCART  371890.9  3768844.9  49.1
RE DISCCART  371915.9  3768844.9  48.8
RE DISCCART  371940.9  3768844.9  48.3
RE DISCCART  371965.9  3768844.9  47.85
RE DISCCART  371990.9  3768844.9  47.2
RE DISCCART  372015.9  3768844.9  46.8
RE DISCCART  372040.9  3768844.9  46.3
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RE DISCCART  372065.9  3768844.9  45.85
RE DISCCART  372090.9  3768844.9  45.3
RE DISCCART  372115.9  3768844.9  44.85
RE DISCCART  372140.9  3768844.9  44.3
RE DISCCART  372165.9  3768844.9  43.85
RE DISCCART  372190.9  3768844.9  43.35
RE DISCCART  372215.9  3768844.9  43.05
RE DISCCART  372240.9  3768844.9  42.6
RE DISCCART  372265.9  3768844.9  42.3
RE DISCCART  372290.9  3768844.9  41.8
RE DISCCART  372315.9  3768844.9  41.55
RE DISCCART  372340.9  3768844.9  41.1
RE DISCCART  372365.9  3768844.9  40.8
RE DISCCART  371340.9  3768869.9  56.28
RE DISCCART  371365.9  3768869.9  55.72
RE DISCCART  371390.9  3768869.9  54.73
RE DISCCART  371415.9  3768869.9  54.5
** RCPDESCR  Elev 30ft
RE DISCCART  371440.9  3768869.9  54.23
** RCPDESCR  Elev 40ft
RE DISCCART  371465.9  3768869.9  54.2
RE DISCCART  371490.9  3768869.9  54
RE DISCCART  371515.9  3768869.9  53.96
RE DISCCART  371540.9  3768869.9  53.53
RE DISCCART  371565.9  3768869.9  53.46
RE DISCCART  371590.9  3768869.9  53
RE DISCCART  371615.9  3768869.9  52.81
** RCPDESCR  Elev 30ft
RE DISCCART  371640.9  3768869.9  52.23
** RCPDESCR  Elev 40ft
RE DISCCART  371665.9  3768869.9  52.08
** RCPDESCR  Elev 30ft
RE DISCCART  371690.9  3768869.9  51.53
RE DISCCART  371715.9  3768869.9  51.37
** RCPDESCR  Elev 30ft
RE DISCCART  371740.9  3768869.9  50.99
** RCPDESCR  Elev 30ft
RE DISCCART  371765.9  3768869.9  50.7
RE DISCCART  371790.9  3768869.9  50.23
RE DISCCART  371815.9  3768869.9  50.11
RE DISCCART  371840.9  3768869.9  49.7
RE DISCCART  371865.9  3768869.9  49.46
RE DISCCART  371890.9  3768869.9  49.03
RE DISCCART  371915.9  3768869.9  48.81
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RE DISCCART  371940.9  3768869.9  48.23
RE DISCCART  371965.9  3768869.9  47.87
RE DISCCART  371990.9  3768869.9  47.03
RE DISCCART  372015.9  3768869.9  46.81
RE DISCCART  372040.9  3768869.9  46.19
RE DISCCART  372065.9  3768869.9  45.87
RE DISCCART  372090.9  3768869.9  45.23
RE DISCCART  372115.9  3768869.9  44.87
RE DISCCART  372140.9  3768869.9  44.23
RE DISCCART  372165.9  3768869.9  43.87
RE DISCCART  372190.9  3768869.9  43.25
RE DISCCART  372215.9  3768869.9  43
RE DISCCART  372240.9  3768869.9  42.53
RE DISCCART  372265.9  3768869.9  42.31
RE DISCCART  372290.9  3768869.9  41.75
RE DISCCART  372315.9  3768869.9  41.61
RE DISCCART  372340.9  3768869.9  41.2
RE DISCCART  372365.9  3768869.9  40.96
RE DISCCART  371340.9  3768894.9  56.75
RE DISCCART  371365.9  3768894.9  55.9
RE DISCCART  371390.9  3768894.9  54.88
RE DISCCART  371415.9  3768894.9  54.75
** RCPDESCR  Elev 30ft
RE DISCCART  371440.9  3768894.9  54.53
** RCPDESCR  Elev 40ft
RE DISCCART  371465.9  3768894.9  54.45
RE DISCCART  371490.9  3768894.9  54.23
RE DISCCART  371515.9  3768894.9  54.15
RE DISCCART  371540.9  3768894.9  53.8

RE DISCCART  371565.9  3768894.9  53.5
RE DISCCART  371590.9  3768894.9  53.1
RE DISCCART  371615.9  3768894.9  52.8
** RCPDESCR  Elev 30ft
RE DISCCART  371640.9  3768894.9  52.35
** RCPDESCR  Elev 40ft
RE DISCCART  371665.9  3768894.9  52.1
** RCPDESCR  Elev 30ft
RE DISCCART  371690.9  3768894.9  51.6
RE DISCCART  371715.9  3768894.9  51.35
** RCPDESCR  Elev 30ft
RE DISCCART  371740.9  3768894.9  50.95
** RCPDESCR  Elev 30ft
RE DISCCART  371765.9  3768894.9  50.7
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RE DISCCART  371790.9  3768894.9  50.3
RE DISCCART  371815.9  3768894.9  50.05
RE DISCCART  371840.9  3768894.9  49.6
RE DISCCART  371865.9  3768894.9  49.45
** RCPDESCR  Elev 30ft
RE DISCCART  371890.9  3768894.9  49.1
** RCPDESCR  Elev 40ft
RE DISCCART  371915.9  3768894.9  48.8
RE DISCCART  371940.9  3768894.9  48.3
** RCPDESCR  Elev 40ft
RE DISCCART  371965.9  3768894.9  47.82
** RCPDESCR  Elev 40ft
RE DISCCART  371990.9  3768894.9  47.1
** RCPDESCR  Elev 30ft
RE DISCCART  372015.9  3768894.9  46.8
** RCPDESCR  Elev 30ft
RE DISCCART  372040.9  3768894.9  46.1
RE DISCCART  372065.9  3768894.9  45.82
RE DISCCART  372090.9  3768894.9  45.3
RE DISCCART  372115.9  3768894.9  44.85
RE DISCCART  372140.9  3768894.9  44.3
RE DISCCART  372165.9  3768894.9  43.85
RE DISCCART  372190.9  3768894.9  43.35
RE DISCCART  372215.9  3768894.9  42.95
RE DISCCART  372240.9  3768894.9  42.5
RE DISCCART  372265.9  3768894.9  42.3
RE DISCCART  372290.9  3768894.9  41.95
RE DISCCART  372315.9  3768894.9  41.6
RE DISCCART  372340.9  3768894.9  41.3
RE DISCCART  372365.9  3768894.9  41.05
RE DISCCART  371340.9  3768919.9  56.78
RE DISCCART  371365.9  3768919.9  56.17
RE DISCCART  371390.9  3768919.9  55.23
RE DISCCART  371415.9  3768919.9  55.11
RE DISCCART  371440.9  3768919.9  54.73
RE DISCCART  371465.9  3768919.9  54.64
RE DISCCART  371490.9  3768919.9  54.52
RE DISCCART  371515.9  3768919.9  54.35
RE DISCCART  371540.9  3768919.9  53.76
RE DISCCART  371565.9  3768919.9  53.61
RE DISCCART  371590.9  3768919.9  53.03
RE DISCCART  371615.9  3768919.9  52.81
RE DISCCART  371640.9  3768919.9  52.42
RE DISCCART  371665.9  3768919.9  52.11
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** RCPDESCR  Elev 30ft
RE DISCCART  371690.9  3768919.9  51.53
RE DISCCART  371715.9  3768919.9  51.46
RE DISCCART  371740.9  3768919.9  51
RE DISCCART  371765.9  3768919.9  50.7
RE DISCCART  371790.9  3768919.9  50.23
RE DISCCART  371815.9  3768919.9  50
RE DISCCART  371840.9  3768919.9  49.53
RE DISCCART  371865.9  3768919.9  49.33
** RCPDESCR  Elev 30ft
RE DISCCART  371890.9  3768919.9  49
** RCPDESCR  Elev 40ft
RE DISCCART  371915.9  3768919.9  48.73
RE DISCCART  371940.9  3768919.9  48.03
** RCPDESCR  Elev 40ft
RE DISCCART  371965.9  3768919.9  47.81
** RCPDESCR  Elev 40ft
RE DISCCART  371990.9  3768919.9  47.03
** RCPDESCR  Elev 30ft
RE DISCCART  372015.9  3768919.9  46.67
** RCPDESCR  Elev 30ft
RE DISCCART  372040.9  3768919.9  46.03
RE DISCCART  372065.9  3768919.9  45.81
RE DISCCART  372090.9  3768919.9  45.23
RE DISCCART  372115.9  3768919.9  44.87
RE DISCCART  372140.9  3768919.9  44.23
RE DISCCART  372165.9  3768919.9  43.87
RE DISCCART  372190.9  3768919.9  43.25
RE DISCCART  372215.9  3768919.9  42.96
RE DISCCART  372240.9  3768919.9  42.5
RE DISCCART  372265.9  3768919.9  42.31
RE DISCCART  372290.9  3768919.9  41.92
RE DISCCART  372315.9  3768919.9  41.7
RE DISCCART  372340.9  3768919.9  41.25
RE DISCCART  372365.9  3768919.9  41.11
RE DISCCART  371340.9  3768944.9  57.25
RE DISCCART  371365.9  3768944.9  56.49
RE DISCCART  371390.9  3768944.9  55.92
RE DISCCART  371415.9  3768944.9  55.65
RE DISCCART  371440.9  3768944.9  55.28
RE DISCCART  371465.9  3768944.9  55.11
RE DISCCART  371490.9  3768944.9  54.82
RE DISCCART  371515.9  3768944.9  54.48
RE DISCCART  371540.9  3768944.9  54
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RE DISCCART  371565.9  3768944.9  53.6
RE DISCCART  371590.9  3768944.9  53.2
RE DISCCART  371615.9  3768944.9  52.9
RE DISCCART  371640.9  3768944.9  52.45
RE DISCCART  371665.9  3768944.9  52.1
** RCPDESCR  Elev 30ft
RE DISCCART  371690.9  3768944.9  51.7
RE DISCCART  371715.9  3768944.9  51.45
RE DISCCART  371740.9  3768944.9  51
RE DISCCART  371765.9  3768944.9  50.7
RE DISCCART  371790.9  3768944.9  50.3
RE DISCCART  371815.9  3768944.9  50
RE DISCCART  371840.9  3768944.9  49.5
RE DISCCART  371865.9  3768944.9  49.2
RE DISCCART  371890.9  3768944.9  48.7
RE DISCCART  371915.9  3768944.9  48.55
RE DISCCART  371940.9  3768944.9  48.07
RE DISCCART  371965.9  3768944.9  47.6
RE DISCCART  371990.9  3768944.9  47.1
RE DISCCART  372015.9  3768944.9  46.6
RE DISCCART  372040.9  3768944.9  46.1
RE DISCCART  372065.9  3768944.9  45.7
RE DISCCART  372090.9  3768944.9  45.2
RE DISCCART  372115.9  3768944.9  44.85
RE DISCCART  372140.9  3768944.9  44.35
RE DISCCART  372165.9  3768944.9  43.95
RE DISCCART  372190.9  3768944.9  43.38
RE DISCCART  372215.9  3768944.9  43.1
RE DISCCART  372240.9  3768944.9  42.6
RE DISCCART  372265.9  3768944.9  42.33
RE DISCCART  372290.9  3768944.9  42
RE DISCCART  372315.9  3768944.9  41.8
RE DISCCART  372340.9  3768944.9  41.47
RE DISCCART  372365.9  3768944.9  41.25
RE DISCCART  371340.9  3768969.9  57.26
RE DISCCART  371365.9  3768969.9  56.8
RE DISCCART  371390.9  3768969.9  56.06
RE DISCCART  371415.9  3768969.9  55.9
RE DISCCART  371440.9  3768969.9  55.52
RE DISCCART  371465.9  3768969.9  55.35
RE DISCCART  371490.9  3768969.9  54.75
RE DISCCART  371515.9  3768969.9  54.61
RE DISCCART  371540.9  3768969.9  54.02
RE DISCCART  371565.9  3768969.9  53.61
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RE DISCCART  371590.9  3768969.9  53.2
RE DISCCART  371615.9  3768969.9  52.96
RE DISCCART  371640.9  3768969.9  52.42
RE DISCCART  371665.9  3768969.9  52.11
RE DISCCART  371690.9  3768969.9  51.7
RE DISCCART  371715.9  3768969.9  51.46
RE DISCCART  371740.9  3768969.9  51
RE DISCCART  371765.9  3768969.9  50.7
RE DISCCART  371790.9  3768969.9  50.23
RE DISCCART  371815.9  3768969.9  50
RE DISCCART  371840.9  3768969.9  49.5
RE DISCCART  371865.9  3768969.9  49.17
** RCPDESCR  Elev 30ft
RE DISCCART  371890.9  3768969.9  48.7
RE DISCCART  371915.9  3768969.9  48.42
RE DISCCART  371940.9  3768969.9  47.92
RE DISCCART  371965.9  3768969.9  47.61
RE DISCCART  371990.9  3768969.9  47.03
RE DISCCART  372015.9  3768969.9  46.61
RE DISCCART  372040.9  3768969.9  46.03
RE DISCCART  372065.9  3768969.9  45.7
RE DISCCART  372090.9  3768969.9  45.2
RE DISCCART  372115.9  3768969.9  44.87
RE DISCCART  372140.9  3768969.9  44.25
RE DISCCART  372165.9  3768969.9  43.96
RE DISCCART  372190.9  3768969.9  43.42
RE DISCCART  372215.9  3768969.9  43.11
RE DISCCART  372240.9  3768969.9  42.53
RE DISCCART  372265.9  3768969.9  42.46
RE DISCCART  372290.9  3768969.9  42.03
** RCPDESCR  Elev 40ft
RE DISCCART  372315.9  3768969.9  41.85
** RCPDESCR  Elev 40ft
RE DISCCART  372340.9  3768969.9  41.5
RE DISCCART  372365.9  3768969.9  41.31
RE DISCCART  371340.9  3768994.9  57.57
RE DISCCART  371365.9  3768994.9  57.08
RE DISCCART  371390.9  3768994.9  56.42
RE DISCCART  371415.9  3768994.9  56.1
RE DISCCART  371440.9  3768994.9  55.67
RE DISCCART  371465.9  3768994.9  55.35
RE DISCCART  371490.9  3768994.9  54.8
RE DISCCART  371515.9  3768994.9  54.5
RE DISCCART  371540.9  3768994.9  54.1
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RE DISCCART  371565.9  3768994.9  53.7
RE DISCCART  371590.9  3768994.9  53.3
RE DISCCART  371615.9  3768994.9  52.85
RE DISCCART  371640.9  3768994.9  52.45
RE DISCCART  371665.9  3768994.9  52.1
RE DISCCART  371690.9  3768994.9  51.7
RE DISCCART  371715.9  3768994.9  51.45
RE DISCCART  371815.9  3768994.9  49.95
RE DISCCART  371840.9  3768994.9  49.45
RE DISCCART  371865.9  3768994.9  49.1
** RCPDESCR  Elev 30ft
RE DISCCART  371890.9  3768994.9  48.7
RE DISCCART  371915.9  3768994.9  48.35
RE DISCCART  371940.9  3768994.9  47.85
RE DISCCART  371965.9  3768994.9  47.6
RE DISCCART  371990.9  3768994.9  46.95
RE DISCCART  372015.9  3768994.9  46.6
RE DISCCART  372040.9  3768994.9  46.1
RE DISCCART  372065.9  3768994.9  45.65
RE DISCCART  372090.9  3768994.9  45.2
RE DISCCART  372115.9  3768994.9  44.95
RE DISCCART  372140.9  3768994.9  44.45
RE DISCCART  372165.9  3768994.9  44.1
RE DISCCART  372190.9  3768994.9  43.6
RE DISCCART  372215.9  3768994.9  43.25
RE DISCCART  372240.9  3768994.9  42.8
RE DISCCART  372265.9  3768994.9  42.5
RE DISCCART  372290.9  3768994.9  42.2
** RCPDESCR  Elev 40ft
RE DISCCART  372315.9  3768994.9  41.98
** RCPDESCR  Elev 40ft
RE DISCCART  372340.9  3768994.9  41.63
RE DISCCART  372365.9  3768994.9  41.48
RE DISCCART  371340.9  3769019.9  57.56
RE DISCCART  371365.9  3769019.9  57.11
RE DISCCART  371390.9  3769019.9  56.53
RE DISCCART  371415.9  3769019.9  56.14
RE DISCCART  371440.9  3769019.9  55.53
RE DISCCART  371465.9  3769019.9  55.31
RE DISCCART  371490.9  3769019.9  54.7
RE DISCCART  371515.9  3769019.9  54.46
RE DISCCART  371540.9  3769019.9  54
RE DISCCART  371565.9  3769019.9  53.7
RE DISCCART  371590.9  3769019.9  53.23
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RE DISCCART  371615.9  3769019.9  52.96
RE DISCCART  371640.9  3769019.9  52.44
RE DISCCART  371665.9  3769019.9  52.14
RE DISCCART  371690.9  3769019.9  51.7
RE DISCCART  371715.9  3769019.9  51.46
RE DISCCART  371740.9  3769019.9  50.99
RE DISCCART  371765.9  3769019.9  50.67
RE DISCCART  371790.9  3769019.9  50.2
RE DISCCART  371815.9  3769019.9  49.96
RE DISCCART  371840.9  3769019.9  49.42
RE DISCCART  371865.9  3769019.9  49.11
RE DISCCART  371890.9  3769019.9  48.7
RE DISCCART  371915.9  3769019.9  48.37
RE DISCCART  371940.9  3769019.9  47.75
RE DISCCART  371965.9  3769019.9  47.61
RE DISCCART  371990.9  3769019.9  46.92
RE DISCCART  372015.9  3769019.9  46.61
RE DISCCART  372040.9  3769019.9  46.03
RE DISCCART  372065.9  3769019.9  45.78
RE DISCCART  372090.9  3769019.9  45.23
RE DISCCART  372115.9  3769019.9  44.96
RE DISCCART  372140.9  3769019.9  44.42

RE DISCCART  372165.9  3769019.9  44.11
RE DISCCART  372190.9  3769019.9  43.53
RE DISCCART  372215.9  3769019.9  43.35
RE DISCCART  372240.9  3769019.9  42.76
RE DISCCART  372265.9  3769019.9  42.61
RE DISCCART  372290.9  3769019.9  42.22
RE DISCCART  372315.9  3769019.9  42.08
RE DISCCART  372340.9  3769019.9  41.72
RE DISCCART  372365.9  3769019.9  41.58
RE DISCCART  371340.9  3769044.9  57.7
RE DISCCART  371365.9  3769044.9  57.15
RE DISCCART  371390.9  3769044.9  56.6
RE DISCCART  371415.9  3769044.9  56.1
RE DISCCART  371440.9  3769044.9  55.6
RE DISCCART  371465.9  3769044.9  55.1
RE DISCCART  371490.9  3769044.9  54.6
RE DISCCART  371515.9  3769044.9  54.45
RE DISCCART  371540.9  3769044.9  53.98
RE DISCCART  371565.9  3769044.9  53.7
RE DISCCART  371590.9  3769044.9  53.3
RE DISCCART  371615.9  3769044.9  53
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RE DISCCART  371640.9  3769044.9  52.6
** RCPDESCR  Elev 40ft
RE DISCCART  371665.9  3769044.9  52.3
** RCPDESCR  Elev 40ft
RE DISCCART  371690.9  3769044.9  51.84
RE DISCCART  371715.9  3769044.9  51.4
RE DISCCART  371740.9  3769044.9  50.95
RE DISCCART  371765.9  3769044.9  50.7
RE DISCCART  371790.9  3769044.9  50.3
RE DISCCART  371815.9  3769044.9  49.95
** RCPDESCR  Elev 30ft
RE DISCCART  371840.9  3769044.9  49.5
** RCPDESCR  Elev 30ft
RE DISCCART  371865.9  3769044.9  49.2
RE DISCCART  371890.9  3769044.9  48.73
RE DISCCART  371915.9  3769044.9  48.45
RE DISCCART  371940.9  3769044.9  47.95
RE DISCCART  371965.9  3769044.9  47.6
RE DISCCART  371990.9  3769044.9  47.1
RE DISCCART  372015.9  3769044.9  46.6
RE DISCCART  372040.9  3769044.9  46.1
RE DISCCART  372065.9  3769044.9  45.8
RE DISCCART  372090.9  3769044.9  45.3
RE DISCCART  372115.9  3769044.9  45
RE DISCCART  372140.9  3769044.9  44.6
RE DISCCART  372165.9  3769044.9  44.25
RE DISCCART  372190.9  3769044.9  43.8
RE DISCCART  372215.9  3769044.9  43.48
RE DISCCART  372240.9  3769044.9  43.03
RE DISCCART  372265.9  3769044.9  42.75
RE DISCCART  372290.9  3769044.9  42.47
RE DISCCART  372315.9  3769044.9  42.38
RE DISCCART  372340.9  3769044.9  41.97
RE DISCCART  372365.9  3769044.9  41.75
RE DISCCART  371340.9  3769069.9  57.56
RE DISCCART  371365.9  3769069.9  57.22
RE DISCCART  371390.9  3769069.9  56.53
RE DISCCART  371415.9  3769069.9  56.11
RE DISCCART  371440.9  3769069.9  55.53
RE DISCCART  371465.9  3769069.9  55.11
RE DISCCART  371490.9  3769069.9  54.53
RE DISCCART  371515.9  3769069.9  54.42
RE DISCCART  371540.9  3769069.9  53.99
RE DISCCART  371565.9  3769069.9  53.7
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RE DISCCART  371590.9  3769069.9  53.23
RE DISCCART  371615.9  3769069.9  53
RE DISCCART  371640.9  3769069.9  52.53
** RCPDESCR  Elev 40ft
RE DISCCART  371665.9  3769069.9  52.31
** RCPDESCR  Elev 40ft
RE DISCCART  371690.9  3769069.9  51.74
RE DISCCART  371715.9  3769069.9  51.58
RE DISCCART  371740.9  3769069.9  51.03
RE DISCCART  371765.9  3769069.9  50.78
RE DISCCART  371790.9  3769069.9  50.23
RE DISCCART  371815.9  3769069.9  49.96
RE DISCCART  371840.9  3769069.9  49.5
RE DISCCART  371865.9  3769069.9  49.2
RE DISCCART  371890.9  3769069.9  48.73
RE DISCCART  371915.9  3769069.9  48.46
RE DISCCART  371940.9  3769069.9  47.92
RE DISCCART  371965.9  3769069.9  47.61
RE DISCCART  371990.9  3769069.9  47.03
RE DISCCART  372015.9  3769069.9  46.78
RE DISCCART  372040.9  3769069.9  46.03
RE DISCCART  372065.9  3769069.9  45.85
RE DISCCART  372090.9  3769069.9  45.25
RE DISCCART  372115.9  3769069.9  45.11
RE DISCCART  372140.9  3769069.9  44.53
RE DISCCART  372165.9  3769069.9  44.38
RE DISCCART  372190.9  3769069.9  43.76
RE DISCCART  372215.9  3769069.9  43.61
RE DISCCART  372240.9  3769069.9  43.04
RE DISCCART  372265.9  3769069.9  42.9
RE DISCCART  372290.9  3769069.9  42.7
RE DISCCART  372315.9  3769069.9  42.47
RE DISCCART  372340.9  3769069.9  42.03
RE DISCCART  372365.9  3769069.9  41.85
RE DISCCART  371340.9  3769094.9  57.67
RE DISCCART  371365.9  3769094.9  57.1
RE DISCCART  371390.9  3769094.9  56.55
RE DISCCART  371415.9  3769094.9  56.1
RE DISCCART  371440.9  3769094.9  55.52
RE DISCCART  371465.9  3769094.9  55.1
RE DISCCART  371490.9  3769094.9  54.6
RE DISCCART  371515.9  3769094.9  54.35
RE DISCCART  371540.9  3769094.9  53.95
RE DISCCART  371565.9  3769094.9  53.7
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RE DISCCART  371590.9  3769094.9  53.3
RE DISCCART  371615.9  3769094.9  53
RE DISCCART  371640.9  3769094.9  52.6
RE DISCCART  371665.9  3769094.9  52.3
RE DISCCART  371690.9  3769094.9  51.88
RE DISCCART  371715.9  3769094.9  51.6
RE DISCCART  371740.9  3769094.9  51.1
RE DISCCART  371765.9  3769094.9  50.83
RE DISCCART  371790.9  3769094.9  50.38
RE DISCCART  371815.9  3769094.9  50.1
RE DISCCART  371840.9  3769094.9  49.6
RE DISCCART  371865.9  3769094.9  49.25
RE DISCCART  371890.9  3769094.9  48.8
RE DISCCART  371915.9  3769094.9  48.45
RE DISCCART  371940.9  3769094.9  48.03
RE DISCCART  371965.9  3769094.9  47.75
RE DISCCART  371990.9  3769094.9  47.17
RE DISCCART  372015.9  3769094.9  46.83
RE DISCCART  372040.9  3769094.9  46.3
RE DISCCART  372065.9  3769094.9  45.9
RE DISCCART  372090.9  3769094.9  45.45
RE DISCCART  372115.9  3769094.9  45.1
RE DISCCART  372140.9  3769094.9  44.73
RE DISCCART  372165.9  3769094.9  44.48
RE DISCCART  372190.9  3769094.9  44.03
RE DISCCART  372215.9  3769094.9  43.8
RE DISCCART  372240.9  3769094.9  43.38
RE DISCCART  372265.9  3769094.9  43.15
RE DISCCART  372290.9  3769094.9  42.82
RE DISCCART  372315.9  3769094.9  42.6
RE DISCCART  372340.9  3769094.9  42.2
RE DISCCART  372365.9  3769094.9  41.98
RE DISCCART  371340.9  3769119.9  57.53
RE DISCCART  371365.9  3769119.9  57.11
RE DISCCART  371390.9  3769119.9  56.42
RE DISCCART  371415.9  3769119.9  56.11
RE DISCCART  371440.9  3769119.9  55.42
RE DISCCART  371465.9  3769119.9  55.11
RE DISCCART  371490.9  3769119.9  54.53
RE DISCCART  371515.9  3769119.9  54.37
RE DISCCART  371540.9  3769119.9  53.92
RE DISCCART  371565.9  3769119.9  53.7
RE DISCCART  371590.9  3769119.9  53.23
RE DISCCART  371615.9  3769119.9  53
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RE DISCCART  371640.9  3769119.9  52.53
RE DISCCART  371665.9  3769119.9  52.37
RE DISCCART  371690.9  3769119.9  51.92
RE DISCCART  371715.9  3769119.9  51.61
RE DISCCART  371740.9  3769119.9  51.03
** RCPDESCR  Elev 30ft
RE DISCCART  371765.9  3769119.9  50.87
RE DISCCART  371790.9  3769119.9  50.42
RE DISCCART  371815.9  3769119.9  50.11
RE DISCCART  371840.9  3769119.9  49.53
RE DISCCART  371865.9  3769119.9  49.31
RE DISCCART  371890.9  3769119.9  48.73
RE DISCCART  371915.9  3769119.9  48.5
RE DISCCART  371940.9  3769119.9  48.04
RE DISCCART  371965.9  3769119.9  47.85
RE DISCCART  371990.9  3769119.9  47.23
RE DISCCART  372015.9  3769119.9  46.9
RE DISCCART  372040.9  3769119.9  46.25
RE DISCCART  372065.9  3769119.9  45.96
RE DISCCART  372090.9  3769119.9  45.5
RE DISCCART  372115.9  3769119.9  45.2
RE DISCCART  372140.9  3769119.9  44.73
RE DISCCART  372165.9  3769119.9  44.58
RE DISCCART  372190.9  3769119.9  44.04
RE DISCCART  372215.9  3769119.9  43.9
RE DISCCART  372240.9  3769119.9  43.52
RE DISCCART  372265.9  3769119.9  43.31
RE DISCCART  372290.9  3769119.9  42.92
RE DISCCART  372315.9  3769119.9  42.61
RE DISCCART  372340.9  3769119.9  42.23
RE DISCCART  372365.9  3769119.9  42.11
RE DISCCART  371340.9  3769144.9  57.6
RE DISCCART  371365.9  3769144.9  57.1
RE DISCCART  371390.9  3769144.9  56.45
RE DISCCART  371415.9  3769144.9  56.1
RE DISCCART  371440.9  3769144.9  55.45
RE DISCCART  371465.9  3769144.9  55.1
RE DISCCART  371490.9  3769144.9  54.6
RE DISCCART  371515.9  3769144.9  54.4
RE DISCCART  371540.9  3769144.9  54
RE DISCCART  371565.9  3769144.9  53.8
RE DISCCART  371590.9  3769144.9  53.35
RE DISCCART  371615.9  3769144.9  53.1
RE DISCCART  371640.9  3769144.9  52.7
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RE DISCCART  371665.9  3769144.9  52.45
RE DISCCART  371690.9  3769144.9  51.97
RE DISCCART  371715.9  3769144.9  51.6
RE DISCCART  371740.9  3769144.9  51.3
RE DISCCART  371765.9  3769144.9  50.95
RE DISCCART  371790.9  3769144.9  50.5
RE DISCCART  371815.9  3769144.9  50.2
RE DISCCART  371840.9  3769144.9  49.8
RE DISCCART  371865.9  3769144.9  49.45
RE DISCCART  371890.9  3769144.9  48.97
RE DISCCART  371915.9  3769144.9  48.75
RE DISCCART  371940.9  3769144.9  48.35
RE DISCCART  371965.9  3769144.9  47.95
RE DISCCART  371990.9  3769144.9  47.45
RE DISCCART  372015.9  3769144.9  47.1
RE DISCCART  372040.9  3769144.9  46.45
RE DISCCART  372065.9  3769144.9  46.1
RE DISCCART  372090.9  3769144.9  45.6
RE DISCCART  372115.9  3769144.9  45.3
RE DISCCART  372140.9  3769144.9  44.97
RE DISCCART  372165.9  3769144.9  44.75
RE DISCCART  372190.9  3769144.9  44.35
RE DISCCART  372215.9  3769144.9  44.1
RE DISCCART  372240.9  3769144.9  43.63
RE DISCCART  372265.9  3769144.9  43.45
RE DISCCART  372290.9  3769144.9  43.03
RE DISCCART  372315.9  3769144.9  42.8
RE DISCCART  372340.9  3769144.9  42.45
RE DISCCART  372365.9  3769144.9  42.2
RE DISCCART  371340.9  3769169.9  57.52
RE DISCCART  371365.9  3769169.9  57.07
RE DISCCART  371390.9  3769169.9  56.42
RE DISCCART  371415.9  3769169.9  56.11
RE DISCCART  371440.9  3769169.9  55.42
RE DISCCART  371465.9  3769169.9  55.11
RE DISCCART  371490.9  3769169.9  54.53
RE DISCCART  371515.9  3769169.9  54.46
RE DISCCART  371540.9  3769169.9  54.02
RE DISCCART  371565.9  3769169.9  53.81
RE DISCCART  371590.9  3769169.9  53.42
RE DISCCART  371615.9  3769169.9  53.11
RE DISCCART  371640.9  3769169.9  52.7
RE DISCCART  371665.9  3769169.9  52.46
RE DISCCART  371690.9  3769169.9  52.02
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** RCPDESCR  Elev 40ft
RE DISCCART  371715.9  3769169.9  51.78
RE DISCCART  371740.9  3769169.9  51.23
RE DISCCART  371765.9  3769169.9  50.96
RE DISCCART  371790.9  3769169.9  50.5
RE DISCCART  371815.9  3769169.9  50.2
RE DISCCART  371840.9  3769169.9  49.73
RE DISCCART  371865.9  3769169.9  49.58
RE DISCCART  371890.9  3769169.9  49.04
RE DISCCART  371915.9  3769169.9  48.96
RE DISCCART  371940.9  3769169.9  48.42
RE DISCCART  371965.9  3769169.9  48.11
RE DISCCART  371990.9  3769169.9  47.44
RE DISCCART  372015.9  3769169.9  47.11
RE DISCCART  372040.9  3769169.9  46.53

RE DISCCART  372065.9  3769169.9  46.11
RE DISCCART  372090.9  3769169.9  45.53
RE DISCCART  372115.9  3769169.9  45.47
RE DISCCART  372140.9  3769169.9  45.03
RE DISCCART  372165.9  3769169.9  44.85
RE DISCCART  372190.9  3769169.9  44.42
RE DISCCART  372215.9  3769169.9  44.14
RE DISCCART  372240.9  3769169.9  43.73
RE DISCCART  372265.9  3769169.9  43.5
RE DISCCART  372290.9  3769169.9  43.03
RE DISCCART  372315.9  3769169.9  42.85
** RCPDESCR  Elev 40ft
RE DISCCART  372340.9  3769169.9  42.5
RE DISCCART  372365.9  3769169.9  42.31
RE DISCCART  371340.9  3769194.9  57.55
RE DISCCART  371365.9  3769194.9  57.1
RE DISCCART  371390.9  3769194.9  56.45
RE DISCCART  371415.9  3769194.9  56.1
RE DISCCART  371440.9  3769194.9  55.6
RE DISCCART  371465.9  3769194.9  55.25
RE DISCCART  371490.9  3769194.9  54.82
RE DISCCART  371515.9  3769194.9  54.55
RE DISCCART  371540.9  3769194.9  54.1
RE DISCCART  371565.9  3769194.9  53.9
** RCPDESCR  Elev 50ft
RE DISCCART  371590.9  3769194.9  53.47
RE DISCCART  371615.9  3769194.9  53.15
RE DISCCART  371640.9  3769194.9  52.8
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RE DISCCART  371665.9  3769194.9  52.5
RE DISCCART  371690.9  3769194.9  52.1
RE DISCCART  371715.9  3769194.9  51.8
RE DISCCART  371740.9  3769194.9  51.3
RE DISCCART  371765.9  3769194.9  51
RE DISCCART  371790.9  3769194.9  50.6
RE DISCCART  371815.9  3769194.9  50.33
RE DISCCART  371840.9  3769194.9  49.95
RE DISCCART  371865.9  3769194.9  49.65
RE DISCCART  371890.9  3769194.9  49.3
RE DISCCART  371915.9  3769194.9  48.98
RE DISCCART  371940.9  3769194.9  48.53
RE DISCCART  371965.9  3769194.9  48.21
RE DISCCART  371990.9  3769194.9  47.6
RE DISCCART  372015.9  3769194.9  47.33
RE DISCCART  372040.9  3769194.9  46.67
RE DISCCART  372065.9  3769194.9  46.33
RE DISCCART  372090.9  3769194.9  45.97
RE DISCCART  372115.9  3769194.9  45.75
RE DISCCART  372140.9  3769194.9  45.3
RE DISCCART  372165.9  3769194.9  45.05
RE DISCCART  372190.9  3769194.9  44.6
RE DISCCART  372215.9  3769194.9  44.38
RE DISCCART  372240.9  3769194.9  43.95
RE DISCCART  372265.9  3769194.9  43.65
RE DISCCART  372290.9  3769194.9  43.3
RE DISCCART  372315.9  3769194.9  43.05
RE DISCCART  372340.9  3769194.9  42.7
RE DISCCART  372365.9  3769194.9  42.5
RE DISCCART  371340.9  3769219.9  57.42
RE DISCCART  371365.9  3769219.9  57.11
RE DISCCART  371390.9  3769219.9  56.42
RE DISCCART  371415.9  3769219.9  56.11
RE DISCCART  371440.9  3769219.9  55.53
RE DISCCART  371465.9  3769219.9  55.35
RE DISCCART  371490.9  3769219.9  54.76
RE DISCCART  371515.9  3769219.9  54.61
RE DISCCART  371540.9  3769219.9  54.2
RE DISCCART  371565.9  3769219.9  53.96
** RCPDESCR  Elev 50ft
RE DISCCART  371590.9  3769219.9  53.5
RE DISCCART  371615.9  3769219.9  53.28
RE DISCCART  371640.9  3769219.9  52.73
RE DISCCART  371665.9  3769219.9  52.5
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RE DISCCART  371690.9  3769219.9  52.03
RE DISCCART  371715.9  3769219.9  51.81
RE DISCCART  371740.9  3769219.9  51.26
RE DISCCART  371765.9  3769219.9  51.11
RE DISCCART  371790.9  3769219.9  50.53
RE DISCCART  371815.9  3769219.9  50.4
RE DISCCART  371840.9  3769219.9  50
RE DISCCART  371865.9  3769219.9  49.7
RE DISCCART  371890.9  3769219.9  49.24
RE DISCCART  371915.9  3769219.9  49.11
RE DISCCART  371940.9  3769219.9  48.53
RE DISCCART  371965.9  3769219.9  48.31
RE DISCCART  371990.9  3769219.9  47.73
RE DISCCART  372015.9  3769219.9  47.37
RE DISCCART  372040.9  3769219.9  46.74
RE DISCCART  372065.9  3769219.9  46.55
RE DISCCART  372090.9  3769219.9  46.03
RE DISCCART  372115.9  3769219.9  45.81
RE DISCCART  372140.9  3769219.9  45.26
RE DISCCART  372165.9  3769219.9  45.11
RE DISCCART  372190.9  3769219.9  44.7
RE DISCCART  372215.9  3769219.9  44.46
RE DISCCART  372240.9  3769219.9  44.02
RE DISCCART  372265.9  3769219.9  43.78
RE DISCCART  372290.9  3769219.9  43.26
RE DISCCART  372315.9  3769219.9  43.14
RE DISCCART  372340.9  3769219.9  42.74
RE DISCCART  372365.9  3769219.9  42.61
RE DISCCART  371340.9  3769244.9  57.35
RE DISCCART  371365.9  3769244.9  57.1
RE DISCCART  371390.9  3769244.9  56.6
RE DISCCART  371415.9  3769244.9  56.2
RE DISCCART  371440.9  3769244.9  55.8
RE DISCCART  371465.9  3769244.9  55.45
RE DISCCART  371490.9  3769244.9  55
RE DISCCART  371515.9  3769244.9  54.7
RE DISCCART  371540.9  3769244.9  54.3
RE DISCCART  371565.9  3769244.9  54
RE DISCCART  371590.9  3769244.9  53.6
RE DISCCART  371615.9  3769244.9  53.3
RE DISCCART  371640.9  3769244.9  52.85
RE DISCCART  371665.9  3769244.9  52.6
RE DISCCART  371690.9  3769244.9  52.1
** RCPDESCR  Elev 40ft
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RE DISCCART  371715.9  3769244.9  51.95
RE DISCCART  371740.9  3769244.9  51.45
RE DISCCART  371765.9  3769244.9  51.1
RE DISCCART  371790.9  3769244.9  50.7
RE DISCCART  371815.9  3769244.9  50.45
RE DISCCART  371840.9  3769244.9  50.03
RE DISCCART  371865.9  3769244.9  49.8
RE DISCCART  371890.9  3769244.9  49.45
RE DISCCART  371915.9  3769244.9  49.1
RE DISCCART  371940.9  3769244.9  48.63
RE DISCCART  371965.9  3769244.9  48.35
RE DISCCART  371990.9  3769244.9  47.85
RE DISCCART  372015.9  3769244.9  47.48
RE DISCCART  372040.9  3769244.9  46.95
RE DISCCART  372065.9  3769244.9  46.6
RE DISCCART  372090.9  3769244.9  46.2
RE DISCCART  372115.9  3769244.9  45.95
RE DISCCART  372140.9  3769244.9  45.5
RE DISCCART  372165.9  3769244.9  45.25
RE DISCCART  372190.9  3769244.9  44.85
RE DISCCART  372215.9  3769244.9  44.6
RE DISCCART  372240.9  3769244.9  44.13
RE DISCCART  372265.9  3769244.9  43.9
RE DISCCART  372290.9  3769244.9  43.53
RE DISCCART  372315.9  3769244.9  43.33
RE DISCCART  372340.9  3769244.9  43
RE DISCCART  372365.9  3769244.9  42.8
RE DISCCART  371340.9  3769269.9  57.25
RE DISCCART  371365.9  3769269.9  57.03
RE DISCCART  371390.9  3769269.9  56.53
RE DISCCART  371415.9  3769269.9  56.31
RE DISCCART  371440.9  3769269.9  55.73
RE DISCCART  371465.9  3769269.9  55.5
RE DISCCART  371490.9  3769269.9  55.03
RE DISCCART  371515.9  3769269.9  54.81
RE DISCCART  371540.9  3769269.9  54.24
RE DISCCART  371565.9  3769269.9  54.11
RE DISCCART  371590.9  3769269.9  53.53
RE DISCCART  371615.9  3769269.9  53.35
RE DISCCART  371640.9  3769269.9  52.76
RE DISCCART  371665.9  3769269.9  52.61
RE DISCCART  371690.9  3769269.9  52.2
RE DISCCART  371715.9  3769269.9  51.96
RE DISCCART  371740.9  3769269.9  51.42
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RE DISCCART  371765.9  3769269.9  51.11
RE DISCCART  371790.9  3769269.9  50.73
RE DISCCART  371815.9  3769269.9  50.47
RE DISCCART  371840.9  3769269.9  50.03
RE DISCCART  371865.9  3769269.9  49.85
RE DISCCART  371890.9  3769269.9  49.42
RE DISCCART  371915.9  3769269.9  49.11
RE DISCCART  371940.9  3769269.9  48.72
RE DISCCART  371965.9  3769269.9  48.46
RE DISCCART  371990.9  3769269.9  47.76
RE DISCCART  372015.9  3769269.9  47.61
RE DISCCART  372040.9  3769269.9  47.02
RE DISCCART  372065.9  3769269.9  46.78
RE DISCCART  372090.9  3769269.9  46.23
RE DISCCART  372115.9  3769269.9  46
RE DISCCART  372140.9  3769269.9  45.53
RE DISCCART  372165.9  3769269.9  45.35
RE DISCCART  372190.9  3769269.9  44.92
RE DISCCART  372215.9  3769269.9  44.64
RE DISCCART  372240.9  3769269.9  44.23
RE DISCCART  372265.9  3769269.9  44
RE DISCCART  372290.9  3769269.9  43.53
RE DISCCART  372315.9  3769269.9  43.46
RE DISCCART  372340.9  3769269.9  43.03
RE DISCCART  372365.9  3769269.9  42.97
RE DISCCART  371340.9  3769294.9  57.35
RE DISCCART  371365.9  3769294.9  57
RE DISCCART  371390.9  3769294.9  56.6
RE DISCCART  371415.9  3769294.9  56.3
RE DISCCART  371440.9  3769294.9  55.85
RE DISCCART  371465.9  3769294.9  55.6
RE DISCCART  371490.9  3769294.9  55.1
RE DISCCART  371515.9  3769294.9  54.85
RE DISCCART  371540.9  3769294.9  54.45
RE DISCCART  371565.9  3769294.9  54.1
RE DISCCART  371590.9  3769294.9  53.63
RE DISCCART  371615.9  3769294.9  53.4
RE DISCCART  371640.9  3769294.9  52.95
RE DISCCART  371665.9  3769294.9  52.6
RE DISCCART  371690.9  3769294.9  52.23
RE DISCCART  371715.9  3769294.9  51.95
RE DISCCART  371740.9  3769294.9  51.5
RE DISCCART  371765.9  3769294.9  51.25
RE DISCCART  371790.9  3769294.9  50.8
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RE DISCCART  371815.9  3769294.9  50.6
RE DISCCART  371840.9  3769294.9  50.1
RE DISCCART  371865.9  3769294.9  49.9
RE DISCCART  371890.9  3769294.9  49.47
RE DISCCART  371915.9  3769294.9  49.2
RE DISCCART  371940.9  3769294.9  48.8
RE DISCCART  371965.9  3769294.9  48.45
RE DISCCART  371990.9  3769294.9  47.95
RE DISCCART  372015.9  3769294.9  47.6
RE DISCCART  372040.9  3769294.9  47.1
RE DISCCART  372065.9  3769294.9  46.83
RE DISCCART  372090.9  3769294.9  46.38
RE DISCCART  372115.9  3769294.9  46.1
RE DISCCART  372140.9  3769294.9  45.63
RE DISCCART  372165.9  3769294.9  45.45
RE DISCCART  372190.9  3769294.9  45.03
RE DISCCART  372215.9  3769294.9  44.8
RE DISCCART  372240.9  3769294.9  44.38
RE DISCCART  372265.9  3769294.9  44.1
RE DISCCART  372290.9  3769294.9  43.73
RE DISCCART  372315.9  3769294.9  43.55
RE DISCCART  372340.9  3769294.9  43.23
RE DISCCART  372365.9  3769294.9  43.05
RE DISCCART  371340.9  3769319.9  57.25
RE DISCCART  371365.9  3769319.9  57.08
RE DISCCART  371390.9  3769319.9  56.53
RE DISCCART  371415.9  3769319.9  56.31
RE DISCCART  371440.9  3769319.9  55.92
RE DISCCART  371465.9  3769319.9  55.61
RE DISCCART  371490.9  3769319.9  55.2
RE DISCCART  371515.9  3769319.9  54.96
RE DISCCART  371540.9  3769319.9  54.42
RE DISCCART  371565.9  3769319.9  54.11
RE DISCCART  371590.9  3769319.9  53.7
RE DISCCART  371615.9  3769319.9  53.46
RE DISCCART  371640.9  3769319.9  52.92
RE DISCCART  371665.9  3769319.9  52.7
RE DISCCART  371690.9  3769319.9  52.23
RE DISCCART  371715.9  3769319.9  51.97
RE DISCCART  371740.9  3769319.9  51.53
RE DISCCART  371765.9  3769319.9  51.31
RE DISCCART  371790.9  3769319.9  50.75
RE DISCCART  371815.9  3769319.9  50.61
RE DISCCART  371840.9  3769319.9  50.2
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RE DISCCART  371865.9  3769319.9  49.96
RE DISCCART  371890.9  3769319.9  49.5
RE DISCCART  371915.9  3769319.9  49.2
RE DISCCART  371940.9  3769319.9  48.73
RE DISCCART  371965.9  3769319.9  48.46
RE DISCCART  371990.9  3769319.9  47.92
RE DISCCART  372015.9  3769319.9  47.61
RE DISCCART  372040.9  3769319.9  47.04

RE DISCCART  372065.9  3769319.9  46.9
RE DISCCART  372090.9  3769319.9  46.42
RE DISCCART  372115.9  3769319.9  46.14
RE DISCCART  372140.9  3769319.9  45.73
RE DISCCART  372165.9  3769319.9  45.5
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** RCPDESCR  Elev 30ft
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RE DISCCART  371840.9  3769369.9  50.23
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RE DISCCART  372015.9  3769369.9  47.7
RE DISCCART  372040.9  3769369.9  47.23
RE DISCCART  372065.9  3769369.9  46.96
** RCPDESCR  Elev 30ft
RE DISCCART  372090.9  3769369.9  46.53
** RCPDESCR  Elev 30ft
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RE DISCCART  371390.9  3769394.9  56.7
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RE DISCCART  371940.9  3769419.9  48.73
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RE DISCCART  372115.9  3769519.9  46.61
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RE DISCCART  371990.9  3769544.9  48.47
RE DISCCART  372015.9  3769544.9  48.15
RE DISCCART  372040.9  3769544.9  47.73
RE DISCCART  372065.9  3769544.9  47.45
RE DISCCART  372090.9  3769544.9  46.97
RE DISCCART  372115.9  3769544.9  46.7
RE DISCCART  372140.9  3769544.9  46.3
RE DISCCART  372165.9  3769544.9  46
```

```
RE DISCCART  372190.9  3769544.9  45.6
RE DISCCART  372215.9  3769544.9  45.45
RE DISCCART  372240.9  3769544.9  45.1
RE DISCCART  372265.9  3769544.9  44.95
RE DISCCART  372290.9  3769544.9  44.6
RE DISCCART  372315.9  3769544.9  44.38
RE DISCCART  372340.9  3769544.9  44.03
RE DISCCART  372365.9  3769544.9  43.88
RE DISCCART  371340.9  3769569.9  57.92
RE DISCCART  371365.9  3769569.9  57.61
RE DISCCART  371390.9  3769569.9  57.22
RE DISCCART  371415.9  3769569.9  56.96
RE DISCCART  371440.9  3769569.9  56.5
RE DISCCART  371465.9  3769569.9  56.28
RE DISCCART  371490.9  3769569.9  55.73
RE DISCCART  371515.9  3769569.9  55.47
RE DISCCART  371540.9  3769569.9  55.04
RE DISCCART  371565.9  3769569.9  54.9
RE DISCCART  371590.9  3769569.9  54.42
RE DISCCART  371615.9  3769569.9  54.14
RE DISCCART  371640.9  3769569.9  53.73
RE DISCCART  371665.9  3769569.9  53.47
RE DISCCART  371690.9  3769569.9  53.03
RE DISCCART  371715.9  3769569.9  52.81
RE DISCCART  371740.9  3769569.9  52.25
RE DISCCART  371765.9  3769569.9  52.11
RE DISCCART  371790.9  3769569.9  51.53
RE DISCCART  371815.9  3769569.9  51.31
RE DISCCART  371840.9  3769569.9  50.74
RE DISCCART  371865.9  3769569.9  50.58
RE DISCCART  371890.9  3769569.9  50.03
RE DISCCART  371915.9  3769569.9  49.81
RE DISCCART  371940.9  3769569.9  49.23
RE DISCCART  371965.9  3769569.9  48.97
RE DISCCART  371990.9  3769569.9  48.52
RE DISCCART  372015.9  3769569.9  48.31
RE DISCCART  372040.9  3769569.9  47.73
RE DISCCART  372065.9  3769569.9  47.47
RE DISCCART  372090.9  3769569.9  47.03
RE DISCCART  372115.9  3769569.9  46.81
RE DISCCART  372140.9  3769569.9  46.24
RE DISCCART  372165.9  3769569.9  46.11
RE DISCCART  372190.9  3769569.9  45.54
RE DISCCART  372215.9  3769569.9  45.47
```

```
RE DISCCART  372240.9  3769569.9  45.04
RE DISCCART  372265.9  3769569.9  44.97
RE DISCCART  372290.9  3769569.9  44.54
RE DISCCART  372315.9  3769569.9  44.47
RE DISCCART  372340.9  3769569.9  44.04
RE DISCCART  372365.9  3769569.9  43.97
RE DISCCART  371340.9  3769594.9  58.1
RE DISCCART  371365.9  3769594.9  57.8
RE DISCCART  371390.9  3769594.9  57.38
RE DISCCART  371415.9  3769594.9  57.1
RE DISCCART  371440.9  3769594.9  56.63
RE DISCCART  371465.9  3769594.9  56.45
RE DISCCART  371490.9  3769594.9  55.97
RE DISCCART  371515.9  3769594.9  55.75
RE DISCCART  371540.9  3769594.9  55.35
RE DISCCART  371565.9  3769594.9  55.1
RE DISCCART  371590.9  3769594.9  54.6
RE DISCCART  371615.9  3769594.9  54.38
RE DISCCART  371640.9  3769594.9  53.95
RE DISCCART  371665.9  3769594.9  53.6
RE DISCCART  371690.9  3769594.9  53.13
RE DISCCART  371715.9  3769594.9  52.95
RE DISCCART  371740.9  3769594.9  52.47
RE DISCCART  371765.9  3769594.9  52.15
RE DISCCART  371790.9  3769594.9  51.73
RE DISCCART  371815.9  3769594.9  51.45
RE DISCCART  371840.9  3769594.9  50.95
RE DISCCART  371865.9  3769594.9  50.6
RE DISCCART  371890.9  3769594.9  50.13
RE DISCCART  371915.9  3769594.9  49.9
RE DISCCART  371940.9  3769594.9  49.45
RE DISCCART  371965.9  3769594.9  49.1
RE DISCCART  371990.9  3769594.9  48.6
RE DISCCART  372015.9  3769594.9  48.35
RE DISCCART  372040.9  3769594.9  47.95
RE DISCCART  372065.9  3769594.9  47.6
RE DISCCART  372090.9  3769594.9  47.13
RE DISCCART  372115.9  3769594.9  46.9
RE DISCCART  372140.9  3769594.9  46.47
RE DISCCART  372165.9  3769594.9  46.15
RE DISCCART  372190.9  3769594.9  45.73
RE DISCCART  372215.9  3769594.9  45.5
RE DISCCART  372240.9  3769594.9  45.3
RE DISCCART  372265.9  3769594.9  45.1
```

```
RE DISCCART  372290.9  3769594.9  44.8
RE DISCCART  372315.9  3769594.9  44.6
RE DISCCART  372340.9  3769594.9  44.3
RE DISCCART  372365.9  3769594.9  44.1
RE DISCCART  372390.9  3769169.9  42
** RCPDESCR  Elev 30ft
RE DISCCART  372415.9  3769169.9  41.78
** RCPDESCR  Elev 30ft
RE DISCCART  372390.9  3769194.9  42.2
** RCPDESCR  Elev 30ft
RE DISCCART  372415.9  3769194.9  41.98
** RCPDESCR  Elev 30ft
RE DISCCART  372324.64  3768512.49  39.91
** RCPDESCR  1536 SRobertson
RE DISCCART  372240.64  3768308.43  39.09
** RCPDESCR  1653 SRobertson
RE DISCCART  373073.12  3769249.93  38.1
** RCPDESCR  1056 SLaCienega
RE DISCCART  370888.15  3768916.91  72.32
** RCPDESCR  9717 WPico
RE DISCCART  373073.79  3769299.83  38.31
** RCPDESCR  1039 SLaCienega
RE DISCCART  373076.32  3768939.33  36.7
** RCPDESCR  1210 SLaCienega
RE DISCCART  372601.4  3768361.23  34.02
** RCPDESCR  1601 SBedford
RE DISCCART  372301.83  3768327.57  38.29
** RCPDESCR  1641 Preuss
RE DISCCART  371747.22  3768345.08  49.22
** RCPDESCR  9233 Airdrome
RE DISCCART  372389.24  3769329.03  42.98
** RCPDESCR  1030 SRobertson
RE DISCCART  371296.73  3768889.14  58.88
** RCPDESCR  1419 SBeverly
RE DISCCART  372959.98  3768868.81  36.65
** RCPDESCR  1241 SCorning
** BOUNDARY
RE DISCCART  371735.92  3768977.86  51.11

RE DISCCART  371738.65  3768975.04  51.1
RE DISCCART  371763.65  3768974.6  50.7
RE DISCCART  371788.64  3768974.16  50.45
RE DISCCART  371791.46  3768974.11  50.31
RE DISCCART  371794.09  3768976.83  50.29
```

```
 RE DISCCART  371794.52  3769001.83  50.2
 RE DISCCART  371794.63  3769008.02  50.2
 RE DISCCART  371769.63  3769008.46  50.7
 RE DISCCART  371744.64  3769008.91  51
 RE DISCCART  371736.47  3769009.05  51.12
 RE DISCCART  371736.03  3768984.05  51.1
 RE DISCCART  371735.92  3768977.86  51.11
 RE FINISHED

 ME STARTING
 ME INPUTFIL  "I:\Project\9000s\9195\Air Modeling\WESTLA.ASC"
 ME ANEMHGHT  10  METERS
 ME SURFDATA  52158  1981
 ME UAIRDATA  91919  1981
 ME STARTEND  1981  01  01  1  1981  12  31  24
 ME FINISHED

 OU STARTING
 OU PLOTFILE  ANNUAL  ALL  "B:\Air Modeling\HHRA\9195_cellars.PLT"
 OU FINISHED

 ** PROJECTN  0 104 7 -177 0 0.9996 500000 0
 ** OUTFILE  "B:\Air Modeling\HHRA\9195_cellars.LST"
 ** RAWFILE  "B:\Air Modeling\HHRA\9195_cellars.RAW"
 ** RAWFMT  2
 ** TERRFILE  C:\DOCUME~1\CKELLY\MYDOCU~1\BREITB~1\DEM\BEVHILLS.DEM 2 4 1 11 10 361469 3762976 361672 3776837 373201
3776675 373014 3762814
 ** HILLBOUN  370775.8 3768252.9 373096.4 3769866.5

 ** BUILDING BLD  0  0  50  13.7  15
 ** BUILDING IDN  SUPBLD
 ** BUILDING NAM  Support Building
 ** BUILDING CRN  371787.19  3769008.15
 ** BUILDING CRN  371742.36  3769008.94
 ** BUILDING CRN  371736.47  3769009.05
 ** BUILDING CRN  371736.3  3768999.06
 ** BUILDING CRN  371736.24  3768995.73
 ** BUILDING CRN  371742.12  3768995.62
 ** BUILDING CRN  371742.18  3768998.95
 ** BUILDING CRN  371787.02  3768998.16
 ** BUILDING CRN  371787.0  3768997.17
 ** BUILDING CRN  371791.22  3768997.09
 ** BUILDING CRN  371794.39  3768994.48
 ** BUILDING CRN  371794.44  3768997.03
```

```
 ** BUILDING CRN  371794.46  3768998.03
 ** BUILDING CRN  371794.63  3769008.02
 ** BUILDING CRN  371787.19  3769008.15
 ** BUILDING BLD  0  0  50  6.1  7
 ** BUILDING IDN  MHBLD
 ** BUILDING NAM  Mud House
 ** BUILDING CRN  371791.22  3768997.09
 ** BUILDING CRN  371790.96  3768982.44
 ** BUILDING CRN  371785.19  3768982.54
 ** BUILDING CRN  371785.09  3768976.99
 ** BUILDING CRN  371792.71  3768976.83
 ** BUILDING CRN  371792.92  3768995.7
 ** BUILDING CRN  371791.22  3768997.09
 ** BUILDING BLD  0  0  50  39  5
 ** BUILDING IDN  Tower
 ** BUILDING NAM  Drilling Tower
 ** BUILDING CRN  371768.4  3768981.6
 ** BUILDING CRN  371758.3  3768981.78
 ** BUILDING CRN  371758.48  3768991.76
 ** BUILDING CRN  371768.58  3768991.59
 ** BUILDING CRN  371768.4  3768981.6
 ** BUILDING BLD  0  0  51  7.62  12
 ** BUILDING IDN  BLD1
 ** BUILDING NAM  Outer Wall
 ** BUILDING CRN  371737.6  3768995.73
 ** BUILDING CRN  371737.5  3768978.3
 ** BUILDING CRN  371739.0  3768976.61
 ** BUILDING CRN  371790.79  3768975.6
 ** BUILDING CRN  371792.71  3768976.83
 ** BUILDING CRN  371792.92  3768995.7
 ** BUILDING CRN  371794.3  3768994.6
 ** BUILDING CRN  371794.09  3768976.83
 ** BUILDING CRN  371791.46  3768974.11
 ** BUILDING CRN  371738.65  3768975.04
 ** BUILDING CRN  371735.92  3768977.86
 ** BUILDING CRN  371736.18  3768995.73

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************
```

***

```
 **Model Set To Continue RUNning After the Setup Testing.

 **Output Options Selected:
         Model Outputs Tables of ANNUAL Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and Missing Hours

 **Misc. Inputs:  Anem. Hgt. (m) =    10.00 ;    Decay Coef. =       0.0000 ;    Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC                                ;  Emission Rate Unit Factor =
0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =     1.3 MB of RAM.

 **Input Runstream File:          B:\AIR MODELING\HHRA\9195_CELLARS.DAT
 **Output Print File:             B:\AIR MODELING\HHRA\9195_CELLARS.LST
 **Detailed Error/Message File:   C:\DOCUMENTS AND SETTINGS\CKELLY\MY DOCUMENTS\BREIT BURN\MODELING\9195_ISC_POINT
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                                  ***
07/07/05
                                    ***                                                                       ***
13:26:49
 **MODELOPTs:
PAGE   2
 CONC                    URBAN ELEV                        NOSTD
HE>ZI



                                              *** POINT SOURCE DATA ***


             NUMBER EMISSION RATE                    BASE     STACK   STACK    STACK     STACK    BUILDING EMISSION
RATE
    SOURCE     PART.  (GRAMS/SEC)     X        Y      ELEV.    HEIGHT  TEMP.   EXIT VEL. DIAMETER   EXISTS   SCALAR
VARY
      ID       CATS.               (METERS) (METERS) (METERS) (METERS) (DEG.K)  (M/SEC)  (METERS)               BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- -

   SRC4          0   0.10000E+01  371756.6 3768989.8    50.0     7.62   293.00     0.10     8.30      YES
```

```
   SRC3          0   0.10000E+01  371747.8 3768990.0    50.0     7.62   293.00     0.10     8.30      YES
   SRC5          0   0.10000E+01  371770.5 3768989.5    50.0     7.62   293.00     0.10     8.30      YES
   SRC6          0   0.10000E+01  371779.1 3768989.5    50.0     7.62   293.00     0.10     8.30      YES
   SRC7          0   0.10000E+01  371755.4 3768981.5    50.0     7.62   293.00     0.10     8.20      YES
   SRC8          0   0.10000E+01  371777.8 3768981.2    50.0     7.62   293.00     0.10     8.20      YES
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                              ***
07/07/05
                                    ***                                                                   ***
13:26:49
 **MODELOPTs:
PAGE   3
 CONC                    URBAN ELEV                        NOSTD
HE>ZI



                                        *** SOURCE IDs DEFINING SOURCE GROUPS ***

 GROUP ID                                                  SOURCE IDs



  ALL       SRC4    , SRC3    , SRC5    , SRC6    , SRC7    , SRC8    ,
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                              ***
07/07/05
                                    ***                                                                   ***
13:26:49
 **MODELOPTs:
PAGE   4
 CONC                    URBAN ELEV                        NOSTD
HE>ZI

                                        *** DIRECTION SPECIFIC BUILDING DIMENSIONS ***


 SOURCE ID: SRC4
  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV
BH     BW  WAK
    1  39.0,  11.5, 0     2  39.0,  12.8, 0     3  39.0,  13.7, 0     4  39.0,  14.1, 0     5  39.0,  14.2, 0     6
39.0,  13.8, 0
    7  39.0,  12.9, 0     8  39.0,  11.7, 0     9  39.0,  10.2, 0    10  39.0,  11.4, 0    11  39.0,  12.7, 0    12
39.0,  13.6, 0
   13  39.0,  14.1, 0    14  39.0,  14.2, 0    15  39.0,  13.8, 0    16  39.0,  13.0, 0    17  39.0,  11.8, 0    18
39.0,  10.3, 0
```

19 39.0, 11.5, 0 20 39.0, 12.8, 0 21 39.0, 13.7, 0 22 39.0, 14.1, 0 23 39.0, 14.2, 0 24 39.0, 13.8, 0
25 39.0, 12.9, 0 26 39.0, 11.7, 0 27 39.0, 10.2, 0 28 39.0, 11.4, 0 29 39.0, 12.7, 0 30 39.0, 13.6, 0
31 39.0, 14.1, 0 32 39.0, 14.2, 0 33 39.0, 13.8, 0 34 39.0, 13.0, 0 35 39.0, 11.8, 0 36 39.0, 10.3, 0

SOURCE ID: SRC3

IFV BH BW WAK IFV BH BW WAK IFV BH BW WAK IFV BH BW WAK IFV BH BW WAK IFV BH BW WAK
1 13.7, 59.6, 0 2 13.7, 59.4, 0 3 13.7, 57.5, 0 4 39.0, 14.1, 0 5 39.0, 14.1, 0 6 39.0, 13.8, 0
7 39.0, 12.9, 0 8 39.0, 11.7, 0 9 39.0, 10.2, 0 10 39.0, 11.4, 0 11 39.0, 12.7, 0 12 39.0, 13.6, 0
13 39.0, 14.1, 0 14 39.0, 14.1, 0 15 39.0, 13.8, 0 16 13.7, 59.1, 0 17 13.7, 59.6, 0 18 13.7, 58.4, 0
19 13.7, 59.6, 0 20 13.7, 59.4, 0 21 13.7, 57.5, 0 22 39.0, 14.1, 0 23 39.0, 14.1, 0 24 39.0, 13.8, 0
25 39.0, 12.9, 0 26 39.0, 11.7, 0 27 39.0, 10.2, 0 28 39.0, 11.4, 0 29 39.0, 12.7, 0 30 39.0, 13.6, 0
31 39.0, 14.1, 0 32 39.0, 14.1, 0 33 39.0, 13.8, 0 34 13.7, 59.1, 0 35 13.7, 59.6, 0 36 13.7, 58.4, 0

SOURCE ID: SRC5

IFV BH BW WAK IFV BH BW WAK IFV BH BW WAK IFV BH BW WAK IFV BH BW WAK IFV BH BW WAK
1 39.0, 11.5, 0 2 39.0, 12.8, 0 3 39.0, 13.7, 0 4 39.0, 14.1, 0 5 39.0, 14.2, 0 6 39.0, 13.8, 0
7 39.0, 12.9, 0 8 39.0, 11.7, 0 9 39.0, 10.2, 0 10 39.0, 11.4, 0 11 39.0, 12.7, 0 12 39.0, 13.6, 0
13 39.0, 14.1, 0 14 39.0, 14.2, 0 15 39.0, 13.8, 0 16 39.0, 13.0, 0 17 39.0, 11.8, 0 18 39.0, 10.3, 0
19 39.0, 11.5, 0 20 39.0, 12.8, 0 21 39.0, 13.7, 0 22 39.0, 14.1, 0 23 39.0, 14.2, 0 24 39.0, 13.8, 0
25 39.0, 12.9, 0 26 39.0, 11.7, 0 27 39.0, 10.2, 0 28 39.0, 11.4, 0 29 39.0, 12.7, 0 30 39.0, 13.6, 0
31 39.0, 14.1, 0 32 39.0, 14.2, 0 33 39.0, 13.8, 0 34 39.0, 13.0, 0 35 39.0, 11.8, 0 36 39.0, 10.3, 0

```
 SOURCE ID: SRC6
  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV
BH     BW  WAK
    1  13.7,  59.6, 0     2  13.7,  59.4, 0     3  39.0,  13.7, 0     4  39.0,  14.1, 0     5  39.0,  14.1, 0     6
39.0,  13.8, 0
    7  39.0,  12.9, 0     8  39.0,  11.7, 0     9  39.0,  10.2, 0    10  39.0,  11.4, 0    11  39.0,  12.7, 0    12
39.0,  13.6, 0
   13  39.0,  14.1, 0    14  39.0,  14.1, 0    15  13.7,  56.7, 0    16  13.7,  59.1, 0    17  13.7,  59.6, 0    18
13.7,  58.4, 0
   19  13.7,  59.6, 0    20  13.7,  59.4, 0    21  39.0,  13.7, 0    22  39.0,  14.1, 0    23  39.0,  14.1, 0    24
39.0,  13.8, 0
   25  39.0,  12.9, 0    26  39.0,  11.7, 0    27  39.0,  10.2, 0    28  39.0,  11.4, 0    29  39.0,  12.7, 0    30
39.0,  13.6, 0
   31  39.0,  14.1, 0    32  39.0,  14.1, 0    33  13.7,  56.7, 0    34  13.7,  59.1, 0    35  13.7,  59.6, 0    36
13.7,  58.4, 0


1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                                  ***
07/07/05
                                    ***                                                                       ***
13:26:49
 **MODELOPTs:
PAGE   5
 CONC                    URBAN ELEV                        NOSTD
HE>ZI

                                        *** DIRECTION SPECIFIC BUILDING DIMENSIONS ***


 SOURCE ID: SRC7
  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV
BH     BW  WAK
    1  39.0,  11.5, 0     2  39.0,  12.8, 0     3  39.0,  13.7, 0     4  39.0,  14.1, 0     5  39.0,  14.2, 0     6
39.0,  13.8, 0
    7  39.0,  12.9, 0     8  39.0,  11.7, 0     9  39.0,  10.2, 0    10  39.0,  11.4, 0    11  39.0,  12.7, 0    12
39.0,  13.6, 0
   13  39.0,  14.1, 0    14  39.0,  14.2, 0    15  39.0,  13.8, 0    16  39.0,  13.0, 0    17  39.0,  11.8, 0    18
39.0,  10.3, 0
   19  39.0,  11.5, 0    20  39.0,  12.8, 0    21  39.0,  13.7, 0    22  39.0,  14.1, 0    23  39.0,  14.2, 0    24
39.0,  13.8, 0
   25  39.0,  12.9, 0    26  39.0,  11.7, 0    27  39.0,  10.2, 0    28  39.0,  11.4, 0    29  39.0,  12.7, 0    30
39.0,  13.6, 0
```

```
   31  39.0,  14.1, 0    32  39.0,  14.2, 0    33  39.0,  13.8, 0    34  39.0,  13.0, 0    35  39.0,  11.8, 0    36
39.0,  10.3, 0


 SOURCE ID: SRC8
  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV   BH     BW  WAK  IFV
BH     BW  WAK
    1  13.7,  59.6, 0     2  13.7,  59.4, 0     3  13.7,  57.5, 0     4  13.7,  53.7, 0     5  39.0,  14.2, 0     6
39.0,  13.8, 0
    7  39.0,  12.9, 0     8  39.0,  11.7, 0     9  39.0,  10.2, 0    10  39.0,  11.4, 0    11  39.0,  12.7, 0    12
39.0,  13.6, 0
   13  39.0,  14.1, 0    14  39.0,  14.2, 0    15  39.0,  13.8, 0    16  39.0,  13.0, 0    17  13.7,  59.6, 0    18
13.7,  58.4, 0
   19  13.7,  59.6, 0    20  13.7,  59.4, 0    21  13.7,  57.5, 0    22  13.7,  53.7, 0    23  39.0,  14.2, 0    24
39.0,  13.8, 0
   25  39.0,  12.9, 0    26  39.0,  11.7, 0    27  39.0,  10.2, 0    28  39.0,  11.4, 0    29  39.0,  12.7, 0    30
39.0,  13.6, 0
   31  39.0,  14.1, 0    32  39.0,  14.2, 0    33  39.0,  13.8, 0    34  39.0,  13.0, 0    35  13.7,  59.6, 0    36
13.7,  58.4, 0


1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                                    ***
07/07/05
                                    ***                                                                         ***
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 **MODELOPTs:
PAGE   6
 CONC                    URBAN ELEV                      NOSTD
HE>ZI


                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                          (X-COORD, Y-COORD, ZELEV, ZFLAG)
                                                    (METERS)

     ( 371340.9, 3768570.0,      60.5,       0.0);          ( 371365.9, 3768570.0,      59.5,       0.0);

     ( 371390.9, 3768570.0,      57.3,       0.0);          ( 371415.9, 3768570.0,      56.5,       0.0);
     ( 371440.9, 3768570.0,      55.1,       0.0);          ( 371465.9, 3768570.0,      54.6,       0.0);
     ( 371490.9, 3768570.0,      54.2,       0.0);          ( 371515.9, 3768570.0,      54.0,       0.0);
     ( 371540.9, 3768570.0,      53.4,       0.0);          ( 371565.9, 3768570.0,      53.2,       0.0);
     ( 371590.9, 3768570.0,      52.5,       0.0);          ( 371615.9, 3768570.0,      52.3,       0.0);
     ( 371640.9, 3768570.0,      51.7,       0.0);          ( 371665.9, 3768570.0,      51.6,       0.0);
```

```
    ( 371690.9, 3768570.0,      51.0,       0.0);          ( 371715.9, 3768570.0,      50.8,       0.0);
    ( 371740.9, 3768570.0,      50.4,       0.0);          ( 371765.9, 3768570.0,      50.1,       0.0);
    ( 371790.9, 3768570.0,      49.7,       0.0);          ( 371815.9, 3768570.0,      49.6,       0.0);
    ( 371840.9, 3768570.0,      49.2,       0.0);          ( 371865.9, 3768570.0,      49.0,       0.0);
    ( 371890.9, 3768570.0,      48.4,       0.0);          ( 371915.9, 3768570.0,      48.1,       0.0);
    ( 371940.9, 3768570.0,      47.2,       0.0);          ( 371965.9, 3768570.0,      46.9,       0.0);
    ( 371990.9, 3768570.0,      46.0,       0.0);          ( 372015.9, 3768570.0,      45.7,       0.0);
    ( 372040.9, 3768570.0,      45.0,       0.0);          ( 372065.9, 3768570.0,      44.8,       0.0);
    ( 372090.9, 3768570.0,      44.2,       0.0);          ( 372115.9, 3768570.0,      43.9,       0.0);
    ( 372140.9, 3768570.0,      43.2,       0.0);          ( 372165.9, 3768570.0,      42.9,       0.0);
    ( 372190.9, 3768570.0,      42.2,       0.0);          ( 372215.9, 3768570.0,      42.0,       0.0);
    ( 372240.9, 3768570.0,      41.4,       0.0);          ( 372265.9, 3768570.0,      41.1,       0.0);
    ( 372290.9, 3768570.0,      40.5,       0.0);          ( 372315.9, 3768570.0,      40.3,       0.0);
    ( 372340.9, 3768570.0,      39.7,       0.0);          ( 372365.9, 3768570.0,      39.5,       0.0);
    ( 371340.9, 3768595.0,      60.1,       0.0);          ( 371365.9, 3768595.0,      58.9,       0.0);
    ( 371390.9, 3768595.0,      57.2,       0.0);          ( 371415.9, 3768595.0,      56.2,       0.0);
    ( 371440.9, 3768595.0,      55.2,       0.0);          ( 371465.9, 3768595.0,      54.6,       0.0);
    ( 371490.9, 3768595.0,      54.2,       0.0);          ( 371515.9, 3768595.0,      53.9,       0.0);
    ( 371540.9, 3768595.0,      53.5,       0.0);          ( 371565.9, 3768595.0,      53.1,       0.0);
    ( 371590.9, 3768595.0,      52.7,       0.0);          ( 371615.9, 3768595.0,      52.4,       0.0);
    ( 371640.9, 3768595.0,      52.0,       0.0);          ( 371665.9, 3768595.0,      51.8,       0.0);
    ( 371690.9, 3768595.0,      51.1,       0.0);          ( 371715.9, 3768595.0,      51.0,       0.0);
    ( 371740.9, 3768595.0,      50.5,       0.0);          ( 371765.9, 3768595.0,      50.3,       0.0);
    ( 371790.9, 3768595.0,      50.0,       0.0);          ( 371815.9, 3768595.0,      49.8,       0.0);
    ( 371840.9, 3768595.0,      49.3,       0.0);          ( 371865.9, 3768595.0,      49.1,       0.0);
    ( 371890.9, 3768595.0,      48.6,       0.0);          ( 371915.9, 3768595.0,      48.3,       0.0);
    ( 371940.9, 3768595.0,      47.6,       0.0);          ( 371965.9, 3768595.0,      47.1,       0.0);
    ( 371990.9, 3768595.0,      46.2,       0.0);          ( 372015.9, 3768595.0,      45.8,       0.0);
    ( 372040.9, 3768595.0,      45.1,       0.0);          ( 372065.9, 3768595.0,      44.9,       0.0);
    ( 372090.9, 3768595.0,      44.4,       0.0);          ( 372115.9, 3768595.0,      44.0,       0.0);
    ( 372140.9, 3768595.0,      43.5,       0.0);          ( 372165.9, 3768595.0,      43.1,       0.0);
    ( 372190.9, 3768595.0,      42.5,       0.0);          ( 372215.9, 3768595.0,      42.2,       0.0);
    ( 372240.9, 3768595.0,      41.6,       0.0);          ( 372265.9, 3768595.0,      41.3,       0.0);
    ( 372290.9, 3768595.0,      40.7,       0.0);          ( 372315.9, 3768595.0,      40.3,       0.0);
    ( 372340.9, 3768595.0,      39.8,       0.0);          ( 372365.9, 3768595.0,      39.5,       0.0);
    ( 371340.9, 3768620.0,      59.6,       0.0);          ( 371365.9, 3768620.0,      58.7,       0.0);
    ( 371390.9, 3768620.0,      56.8,       0.0);          ( 371415.9, 3768620.0,      56.1,       0.0);
    ( 371440.9, 3768620.0,      54.9,       0.0);          ( 371465.9, 3768620.0,      54.6,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05                            ***                                                               ***
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 **MODELOPTs:
PAGE   7
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CONC URBAN ELEV NOSTD
HE>ZI

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(	371490.9,	3768620.0,	54.0, 0.0);	(	371515.9,	3768620.0,	53.8, 0.0);
(	371540.9,	3768620.0,	53.4, 0.0);	(	371565.9,	3768620.0,	53.1, 0.0);
(	371590.9,	3768620.0,	52.7, 0.0);	(	371615.9,	3768620.0,	52.5, 0.0);
(	371640.9,	3768620.0,	52.0, 0.0);	(	371665.9,	3768620.0,	51.6, 0.0);
(	371690.9,	3768620.0,	51.2, 0.0);	(	371715.9,	3768620.0,	51.0, 0.0);
(	371740.9,	3768620.0,	50.5, 0.0);	(	371765.9,	3768620.0,	50.4, 0.0);
(	371790.9,	3768620.0,	50.0, 0.0);	(	371815.9,	3768620.0,	49.8, 0.0);
(	371840.9,	3768620.0,	49.4, 0.0);	(	371865.9,	3768620.0,	49.1, 0.0);
(	371890.9,	3768620.0,	48.7, 0.0);	(	371915.9,	3768620.0,	48.4, 0.0);
(	371940.9,	3768620.0,	47.5, 0.0);	(	371965.9,	3768620.0,	47.1, 0.0);
(	371990.9,	3768620.0,	46.2, 0.0);	(	372015.9,	3768620.0,	45.8, 0.0);
(	372040.9,	3768620.0,	45.2, 0.0);	(	372065.9,	3768620.0,	45.1, 0.0);
(	372090.9,	3768620.0,	44.5, 0.0);	(	372115.9,	3768620.0,	44.1, 0.0);
(	372140.9,	3768620.0,	43.5, 0.0);	(	372165.9,	3768620.0,	43.2, 0.0);
(	372190.9,	3768620.0,	42.5, 0.0);	(	372215.9,	3768620.0,	42.3, 0.0);
(	372240.9,	3768620.0,	41.7, 0.0);	(	372265.9,	3768620.0,	41.4, 0.0);
(	372290.9,	3768620.0,	40.7, 0.0);	(	372315.9,	3768620.0,	40.5, 0.0);
(	372340.9,	3768620.0,	39.9, 0.0);	(	372365.9,	3768620.0,	39.6, 0.0);
(	371340.9,	3768645.0,	59.2, 0.0);	(	371365.9,	3768645.0,	58.3, 0.0);
(	371390.9,	3768645.0,	56.8, 0.0);	(	371415.9,	3768645.0,	55.8, 0.0);
(	371440.9,	3768645.0,	54.8, 0.0);	(	371465.9,	3768645.0,	54.5, 0.0);
(	371490.9,	3768645.0,	54.1, 0.0);	(	371515.9,	3768645.0,	53.8, 0.0);
(	371540.9,	3768645.0,	53.5, 0.0);	(	371565.9,	3768645.0,	53.2, 0.0);
(	371590.9,	3768645.0,	52.8, 0.0);	(	371615.9,	3768645.0,	52.6, 0.0);
(	371640.9,	3768645.0,	52.0, 0.0);	(	371665.9,	3768645.0,	51.7, 0.0);
(	371690.9,	3768645.0,	51.3, 0.0);	(	371715.9,	3768645.0,	51.1, 0.0);
(	371740.9,	3768645.0,	50.7, 0.0);	(	371765.9,	3768645.0,	50.5, 0.0);
(	371790.9,	3768645.0,	50.1, 0.0);	(	371815.9,	3768645.0,	49.9, 0.0);
(	371840.9,	3768645.0,	49.5, 0.0);	(	371865.9,	3768645.0,	49.2, 0.0);
(	371890.9,	3768645.0,	48.8, 0.0);	(	371915.9,	3768645.0,	48.5, 0.0);
(	371940.9,	3768645.0,	47.8, 0.0);	(	371965.9,	3768645.0,	47.4, 0.0);
(	371990.9,	3768645.0,	46.6, 0.0);	(	372015.9,	3768645.0,	46.2, 0.0);
(	372040.9,	3768645.0,	45.8, 0.0);	(	372065.9,	3768645.0,	45.3, 0.0);
(	372090.9,	3768645.0,	44.7, 0.0);	(	372115.9,	3768645.0,	44.3, 0.0);
(	372140.9,	3768645.0,	43.8, 0.0);	(	372165.9,	3768645.0,	43.3, 0.0);
(	372190.9,	3768645.0,	42.8, 0.0);	(	372215.9,	3768645.0,	42.5, 0.0);

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    ( 372240.9, 3768645.0,      41.9,       0.0);          ( 372265.9, 3768645.0,      41.6,       0.0);
    ( 372290.9, 3768645.0,      41.0,       0.0);          ( 372315.9, 3768645.0,      40.6,       0.0);
    ( 372340.9, 3768645.0,      40.1,       0.0);          ( 372365.9, 3768645.0,      39.8,       0.0);
    ( 371340.9, 3768670.0,      58.7,       0.0);          ( 371365.9, 3768670.0,      58.1,       0.0);
    ( 371390.9, 3768670.0,      56.6,       0.0);          ( 371415.9, 3768670.0,      55.9,       0.0);
    ( 371440.9, 3768670.0,      54.8,       0.0);          ( 371465.9, 3768670.0,      54.6,       0.0);
    ( 371490.9, 3768670.0,      54.0,       0.0);          ( 371515.9, 3768670.0,      54.0,       0.0);
    ( 371540.9, 3768670.0,      53.5,       0.0);          ( 371565.9, 3768670.0,      53.3,       0.0);
    ( 371590.9, 3768670.0,      52.9,       0.0);          ( 371615.9, 3768670.0,      52.5,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                              ***
07/07/05
                                    ***                                                                   ***
13:26:49
 **MODELOPTs:
PAGE   8
 CONC                    URBAN ELEV                      NOSTD
HE>ZI


                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                    (X-COORD, Y-COORD, ZELEV, ZFLAG)
                                             (METERS)

    ( 371640.9, 3768670.0,      52.0,       0.0);          ( 371665.9, 3768670.0,      51.8,       0.0);
    ( 371690.9, 3768670.0,      51.4,       0.0);          ( 371715.9, 3768670.0,      51.2,       0.0);
    ( 371740.9, 3768670.0,      50.7,       0.0);          ( 371765.9, 3768670.0,      50.5,       0.0);
    ( 371790.9, 3768670.0,      50.0,       0.0);          ( 371815.9, 3768670.0,      50.0,       0.0);
    ( 371840.9, 3768670.0,      49.5,       0.0);          ( 371865.9, 3768670.0,      49.3,       0.0);
    ( 371890.9, 3768670.0,      48.8,       0.0);          ( 371915.9, 3768670.0,      48.6,       0.0);
    ( 371940.9, 3768670.0,      47.9,       0.0);          ( 371965.9, 3768670.0,      47.6,       0.0);
    ( 371990.9, 3768670.0,      46.7,       0.0);          ( 372015.9, 3768670.0,      46.4,       0.0);
    ( 372040.9, 3768670.0,      45.7,       0.0);          ( 372065.9, 3768670.0,      45.4,       0.0);
    ( 372090.9, 3768670.0,      44.8,       0.0);          ( 372115.9, 3768670.0,      44.4,       0.0);
    ( 372140.9, 3768670.0,      43.8,       0.0);          ( 372165.9, 3768670.0,      43.5,       0.0);
    ( 372190.9, 3768670.0,      42.8,       0.0);          ( 372215.9, 3768670.0,      42.6,       0.0);
    ( 372240.9, 3768670.0,      42.0,       0.0);          ( 372265.9, 3768670.0,      41.7,       0.0);
    ( 372290.9, 3768670.0,      41.0,       0.0);          ( 372315.9, 3768670.0,      40.8,       0.0);
    ( 372340.9, 3768670.0,      40.2,       0.0);          ( 372365.9, 3768670.0,      40.0,       0.0);
    ( 371340.9, 3768695.0,      58.5,       0.0);          ( 371365.9, 3768695.0,      57.7,       0.0);
    ( 371390.9, 3768695.0,      56.6,       0.0);          ( 371415.9, 3768695.0,      56.0,       0.0);
    ( 371440.9, 3768695.0,      55.2,       0.0);          ( 371465.9, 3768695.0,      54.8,       0.0);
    ( 371490.9, 3768695.0,      54.3,       0.0);          ( 371515.9, 3768695.0,      54.0,       0.0);
    ( 371540.9, 3768695.0,      53.6,       0.0);          ( 371565.9, 3768695.0,      53.3,       0.0);
    ( 371590.9, 3768695.0,      52.8,       0.0);          ( 371615.9, 3768695.0,      52.6,       0.0);
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    ( 371640.9, 3768695.0,      52.1,       0.0);         ( 371665.9, 3768695.0,      51.8,       0.0);
    ( 371690.9, 3768695.0,      51.5,       0.0);         ( 371715.9, 3768695.0,      51.1,       0.0);
    ( 371740.9, 3768695.0,      50.8,       0.0);         ( 371765.9, 3768695.0,      50.6,       0.0);
    ( 371790.9, 3768695.0,      50.2,       0.0);         ( 371815.9, 3768695.0,      50.0,       0.0);
    ( 371840.9, 3768695.0,      49.6,       0.0);         ( 371865.9, 3768695.0,      49.4,       0.0);

    ( 371890.9, 3768695.0,      49.0,       0.0);         ( 371915.9, 3768695.0,      48.8,       0.0);
    ( 371940.9, 3768695.0,      48.1,       0.0);         ( 371965.9, 3768695.0,      47.7,       0.0);
    ( 371990.9, 3768695.0,      47.0,       0.0);         ( 372015.9, 3768695.0,      46.6,       0.0);
    ( 372040.9, 3768695.0,      46.0,       0.0);         ( 372065.9, 3768695.0,      45.6,       0.0);
    ( 372090.9, 3768695.0,      45.0,       0.0);         ( 372115.9, 3768695.0,      44.6,       0.0);
    ( 372140.9, 3768695.0,      44.0,       0.0);         ( 372165.9, 3768695.0,      43.6,       0.0);
    ( 372190.9, 3768695.0,      43.1,       0.0);         ( 372215.9, 3768695.0,      42.8,       0.0);
    ( 372240.9, 3768695.0,      42.3,       0.0);         ( 372265.9, 3768695.0,      41.9,       0.0);
    ( 372290.9, 3768695.0,      41.3,       0.0);         ( 372315.9, 3768695.0,      41.0,       0.0);
    ( 372340.9, 3768695.0,      40.5,       0.0);         ( 372365.9, 3768695.0,      40.1,       0.0);
    ( 371340.9, 3768720.0,      58.0,       0.0);         ( 371365.9, 3768720.0,      57.6,       0.0);
    ( 371390.9, 3768720.0,      56.5,       0.0);         ( 371415.9, 3768720.0,      56.1,       0.0);
    ( 371440.9, 3768720.0,      55.2,       0.0);         ( 371465.9, 3768720.0,      54.9,       0.0);
    ( 371490.9, 3768720.0,      54.3,       0.0);         ( 371515.9, 3768720.0,      54.1,       0.0);
    ( 371540.9, 3768720.0,      53.5,       0.0);         ( 371565.9, 3768720.0,      53.3,       0.0);
    ( 371590.9, 3768720.0,      52.8,       0.0);         ( 371615.9, 3768720.0,      52.6,       0.0);
    ( 371640.9, 3768720.0,      52.2,       0.0);         ( 371665.9, 3768720.0,      51.9,       0.0);
    ( 371690.9, 3768720.0,      51.4,       0.0);         ( 371715.9, 3768720.0,      51.2,       0.0);
    ( 371740.9, 3768720.0,      50.7,       0.0);         ( 371765.9, 3768720.0,      50.6,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05
                                    ***                                                               ***
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 **MODELOPTs:
PAGE   9
 CONC                    URBAN ELEV                      NOSTD
HE>ZI


                                    *** DISCRETE CARTESIAN RECEPTORS ***
                                      (X-COORD, Y-COORD, ZELEV, ZFLAG)
                                                (METERS)

    ( 371790.9, 3768720.0,      50.2,       0.0);         ( 371815.9, 3768720.0,      50.1,       0.0);
    ( 371840.9, 3768720.0,      49.7,       0.0);         ( 371865.9, 3768720.0,      49.5,       0.0);
    ( 371890.9, 3768720.0,      49.0,       0.0);         ( 371915.9, 3768720.0,      48.8,       0.0);
    ( 371940.9, 3768720.0,      48.1,       0.0);         ( 371965.9, 3768720.0,      47.8,       0.0);
```

```
    ( 371990.9, 3768720.0,      47.0,       0.0);         ( 372015.9, 3768720.0,      46.6,       0.0);
    ( 372040.9, 3768720.0,      46.0,       0.0);         ( 372065.9, 3768720.0,      45.6,       0.0);
    ( 372090.9, 3768720.0,      45.0,       0.0);         ( 372115.9, 3768720.0,      44.6,       0.0);
    ( 372140.9, 3768720.0,      44.0,       0.0);         ( 372165.9, 3768720.0,      43.6,       0.0);
    ( 372190.9, 3768720.0,      43.0,       0.0);         ( 372215.9, 3768720.0,      42.9,       0.0);
    ( 372240.9, 3768720.0,      42.2,       0.0);         ( 372265.9, 3768720.0,      42.0,       0.0);
    ( 372290.9, 3768720.0,      41.3,       0.0);         ( 372315.9, 3768720.0,      41.1,       0.0);
    ( 372340.9, 3768720.0,      40.5,       0.0);         ( 372365.9, 3768720.0,      40.3,       0.0);
    ( 371340.9, 3768745.0,      57.8,       0.0);         ( 371365.9, 3768745.0,      57.3,       0.0);
    ( 371390.9, 3768745.0,      56.5,       0.0);         ( 371415.9, 3768745.0,      56.1,       0.0);
    ( 371440.9, 3768745.0,      55.5,       0.0);         ( 371465.9, 3768745.0,      55.0,       0.0);
    ( 371490.9, 3768745.0,      54.5,       0.0);         ( 371515.9, 3768745.0,      54.1,       0.0);
    ( 371540.9, 3768745.0,      53.6,       0.0);         ( 371565.9, 3768745.0,      53.3,       0.0);
    ( 371590.9, 3768745.0,      53.0,       0.0);         ( 371615.9, 3768745.0,      52.6,       0.0);
    ( 371640.9, 3768745.0,      52.1,       0.0);         ( 371665.9, 3768745.0,      52.0,       0.0);
    ( 371690.9, 3768745.0,      51.5,       0.0);         ( 371715.9, 3768745.0,      51.2,       0.0);
    ( 371740.9, 3768745.0,      51.0,       0.0);         ( 371765.9, 3768745.0,      50.7,       0.0);
    ( 371790.9, 3768745.0,      50.3,       0.0);         ( 371815.9, 3768745.0,      50.1,       0.0);
    ( 371840.9, 3768745.0,      49.8,       0.0);         ( 371865.9, 3768745.0,      49.5,       0.0);
    ( 371890.9, 3768745.0,      49.1,       0.0);         ( 371915.9, 3768745.0,      48.8,       0.0);
    ( 371940.9, 3768745.0,      48.3,       0.0);         ( 371965.9, 3768745.0,      47.8,       0.0);
    ( 371990.9, 3768745.0,      47.1,       0.0);         ( 372015.9, 3768745.0,      46.8,       0.0);
    ( 372040.9, 3768745.0,      46.1,       0.0);         ( 372065.9, 3768745.0,      45.8,       0.0);
    ( 372090.9, 3768745.0,      45.1,       0.0);         ( 372115.9, 3768745.0,      44.8,       0.0);
    ( 372140.9, 3768745.0,      44.1,       0.0);         ( 372165.9, 3768745.0,      43.8,       0.0);
    ( 372190.9, 3768745.0,      43.3,       0.0);         ( 372215.9, 3768745.0,      43.0,       0.0);
    ( 372240.9, 3768745.0,      42.5,       0.0);         ( 372265.9, 3768745.0,      42.1,       0.0);
    ( 372290.9, 3768745.0,      41.6,       0.0);         ( 372315.9, 3768745.0,      41.2,       0.0);
    ( 372340.9, 3768745.0,      40.6,       0.0);         ( 372365.9, 3768745.0,      40.4,       0.0);
    ( 371340.9, 3768770.0,      57.5,       0.0);         ( 371365.9, 3768770.0,      57.0,       0.0);
    ( 371390.9, 3768770.0,      56.2,       0.0);         ( 371415.9, 3768770.0,      56.0,       0.0);
    ( 371440.9, 3768770.0,      55.4,       0.0);         ( 371465.9, 3768770.0,      55.0,       0.0);
    ( 371490.9, 3768770.0,      54.4,       0.0);         ( 371515.9, 3768770.0,      54.1,       0.0);
    ( 371540.9, 3768770.0,      53.5,       0.0);         ( 371565.9, 3768770.0,      53.3,       0.0);
    ( 371590.9, 3768770.0,      52.9,       0.0);         ( 371615.9, 3768770.0,      52.6,       0.0);
    ( 371640.9, 3768770.0,      52.2,       0.0);         ( 371665.9, 3768770.0,      52.0,       0.0);
    ( 371690.9, 3768770.0,      51.5,       0.0);         ( 371715.9, 3768770.0,      51.3,       0.0);
    ( 371740.9, 3768770.0,      50.9,       0.0);         ( 371765.9, 3768770.0,      50.7,       0.0);
    ( 371790.9, 3768770.0,      50.4,       0.0);         ( 371815.9, 3768770.0,      50.1,       0.0);
    ( 371840.9, 3768770.0,      49.7,       0.0);         ( 371865.9, 3768770.0,      49.5,       0.0);
    ( 371890.9, 3768770.0,      49.0,       0.0);         ( 371915.9, 3768770.0,      48.9,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(	371940.9,	3768770.0,	48.2,	0.0);	(371965.9,	3768770.0,	47.9,	0.0);
(	371990.9,	3768770.0,	47.0,	0.0);	(372015.9,	3768770.0,	46.8,	0.0);
(	372040.9,	3768770.0,	46.0,	0.0);	(372065.9,	3768770.0,	45.8,	0.0);
(	372090.9,	3768770.0,	45.1,	0.0);	(372115.9,	3768770.0,	44.8,	0.0);
(	372140.9,	3768770.0,	44.0,	0.0);	(372165.9,	3768770.0,	43.8,	0.0);
(	372190.9,	3768770.0,	43.2,	0.0);	(372215.9,	3768770.0,	43.0,	0.0);
(	372240.9,	3768770.0,	42.4,	0.0);	(372265.9,	3768770.0,	42.1,	0.0);
(	372290.9,	3768770.0,	41.5,	0.0);	(372315.9,	3768770.0,	41.3,	0.0);
(	372340.9,	3768770.0,	40.7,	0.0);	(372365.9,	3768770.0,	40.5,	0.0);
(	371340.9,	3768795.0,	57.2,	0.0);	(371365.9,	3768795.0,	56.5,	0.0);
(	371390.9,	3768795.0,	56.0,	0.0);	(371415.9,	3768795.0,	55.6,	0.0);
(	371440.9,	3768795.0,	55.2,	0.0);	(371465.9,	3768795.0,	54.8,	0.0);
(	371490.9,	3768795.0,	54.4,	0.0);	(371515.9,	3768795.0,	54.1,	0.0);
(	371540.9,	3768795.0,	53.6,	0.0);	(371565.9,	3768795.0,	53.3,	0.0);
(	371590.9,	3768795.0,	53.0,	0.0);	(371615.9,	3768795.0,	52.6,	0.0);
(	371640.9,	3768795.0,	52.3,	0.0);	(371665.9,	3768795.0,	52.0,	0.0);
(	371690.9,	3768795.0,	51.6,	0.0);	(371715.9,	3768795.0,	51.3,	0.0);
(	371740.9,	3768795.0,	51.0,	0.0);	(371765.9,	3768795.0,	50.8,	0.0);
(	371790.9,	3768795.0,	50.5,	0.0);	(371815.9,	3768795.0,	50.1,	0.0);
(	371840.9,	3768795.0,	49.8,	0.0);	(371865.9,	3768795.0,	49.5,	0.0);
(	371890.9,	3768795.0,	49.1,	0.0);	(371915.9,	3768795.0,	48.8,	0.0);
(	371940.9,	3768795.0,	48.3,	0.0);	(371965.9,	3768795.0,	47.8,	0.0);
(	371990.9,	3768795.0,	47.2,	0.0);	(372015.9,	3768795.0,	46.8,	0.0);
(	372040.9,	3768795.0,	46.3,	0.0);	(372065.9,	3768795.0,	45.8,	0.0);
(	372090.9,	3768795.0,	45.3,	0.0);	(372115.9,	3768795.0,	44.8,	0.0);
(	372140.9,	3768795.0,	44.3,	0.0);	(372165.9,	3768795.0,	43.8,	0.0);
(	372190.9,	3768795.0,	43.3,	0.0);	(372215.9,	3768795.0,	43.0,	0.0);
(	372240.9,	3768795.0,	42.5,	0.0);	(372265.9,	3768795.0,	42.2,	0.0);
(	372290.9,	3768795.0,	41.7,	0.0);	(372315.9,	3768795.0,	41.4,	0.0);
(	372340.9,	3768795.0,	40.9,	0.0);	(372365.9,	3768795.0,	40.6,	0.0);
(	371340.9,	3768820.0,	56.7,	0.0);	(371365.9,	3768820.0,	56.1,	0.0);
(	371390.9,	3768820.0,	55.5,	0.0);	(371415.9,	3768820.0,	55.3,	0.0);

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     ( 371440.9, 3768820.0,      54.9,       0.0);          ( 371465.9, 3768820.0,      54.7,       0.0);
     ( 371490.9, 3768820.0,      54.2,       0.0);          ( 371515.9, 3768820.0,      54.0,       0.0);
     ( 371540.9, 3768820.0,      53.5,       0.0);          ( 371565.9, 3768820.0,      53.3,       0.0);
     ( 371590.9, 3768820.0,      52.9,       0.0);          ( 371615.9, 3768820.0,      52.6,       0.0);
     ( 371640.9, 3768820.0,      52.2,       0.0);          ( 371665.9, 3768820.0,      52.0,       0.0);
     ( 371690.9, 3768820.0,      51.5,       0.0);          ( 371715.9, 3768820.0,      51.5,       0.0);
     ( 371740.9, 3768820.0,      51.0,       0.0);          ( 371765.9, 3768820.0,      50.8,       0.0);
     ( 371790.9, 3768820.0,      50.4,       0.0);          ( 371815.9, 3768820.0,      50.1,       0.0);
     ( 371840.9, 3768820.0,      49.7,       0.0);          ( 371865.9, 3768820.0,      49.5,       0.0);
     ( 371890.9, 3768820.0,      49.0,       0.0);          ( 371915.9, 3768820.0,      48.8,       0.0);
     ( 371940.9, 3768820.0,      48.2,       0.0);          ( 371965.9, 3768820.0,      47.9,       0.0);
     ( 371990.9, 3768820.0,      47.2,       0.0);          ( 372015.9, 3768820.0,      46.9,       0.0);
     ( 372040.9, 3768820.0,      46.2,       0.0);          ( 372065.9, 3768820.0,      45.9,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                              ***
07/07/05
                                    ***                                                                   ***
13:26:49
 **MODELOPTs:
PAGE  11
 CONC                    URBAN ELEV                      NOSTD
HE>ZI


                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                    (X-COORD, Y-COORD, ZELEV, ZFLAG)
                                              (METERS)

     ( 372090.9, 3768820.0,      45.2,       0.0);          ( 372115.9, 3768820.0,      44.9,       0.0);
     ( 372140.9, 3768820.0,      44.2,       0.0);          ( 372165.9, 3768820.0,      43.9,       0.0);
     ( 372190.9, 3768820.0,      43.2,       0.0);          ( 372215.9, 3768820.0,      43.0,       0.0);
     ( 372240.9, 3768820.0,      42.5,       0.0);          ( 372265.9, 3768820.0,      42.3,       0.0);
     ( 372290.9, 3768820.0,      41.7,       0.0);          ( 372315.9, 3768820.0,      41.5,       0.0);
     ( 372340.9, 3768820.0,      40.9,       0.0);          ( 372365.9, 3768820.0,      40.6,       0.0);
     ( 371340.9, 3768845.0,      56.5,       0.0);          ( 371365.9, 3768845.0,      55.7,       0.0);
     ( 371390.9, 3768845.0,      54.8,       0.0);          ( 371415.9, 3768845.0,      54.7,       0.0);
     ( 371440.9, 3768845.0,      54.6,       0.0);          ( 371465.9, 3768845.0,      54.4,       0.0);
     ( 371490.9, 3768845.0,      54.1,       0.0);          ( 371515.9, 3768845.0,      54.0,       0.0);
     ( 371540.9, 3768845.0,      53.6,       0.0);          ( 371565.9, 3768845.0,      53.3,       0.0);
     ( 371590.9, 3768845.0,      53.0,       0.0);          ( 371615.9, 3768845.0,      52.7,       0.0);
     ( 371640.9, 3768845.0,      52.2,       0.0);          ( 371665.9, 3768845.0,      52.0,       0.0);
     ( 371690.9, 3768845.0,      51.6,       0.0);          ( 371715.9, 3768845.0,      51.3,       0.0);
     ( 371740.9, 3768845.0,      51.0,       0.0);          ( 371765.9, 3768845.0,      50.7,       0.0);
     ( 371790.9, 3768845.0,      50.3,       0.0);          ( 371815.9, 3768845.0,      50.1,       0.0);
     ( 371840.9, 3768845.0,      49.7,       0.0);          ( 371865.9, 3768845.0,      49.5,       0.0);
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```
    ( 371890.9, 3768845.0,      49.1,       0.0);          ( 371915.9, 3768845.0,      48.8,       0.0);
    ( 371940.9, 3768845.0,      48.3,       0.0);          ( 371965.9, 3768845.0,      47.8,       0.0);
    ( 371990.9, 3768845.0,      47.2,       0.0);          ( 372015.9, 3768845.0,      46.8,       0.0);
    ( 372040.9, 3768845.0,      46.3,       0.0);          ( 372065.9, 3768845.0,      45.8,       0.0);
    ( 372090.9, 3768845.0,      45.3,       0.0);          ( 372115.9, 3768845.0,      44.8,       0.0);
    ( 372140.9, 3768845.0,      44.3,       0.0);          ( 372165.9, 3768845.0,      43.8,       0.0);
    ( 372190.9, 3768845.0,      43.3,       0.0);          ( 372215.9, 3768845.0,      43.0,       0.0);
    ( 372240.9, 3768845.0,      42.6,       0.0);          ( 372265.9, 3768845.0,      42.3,       0.0);
    ( 372290.9, 3768845.0,      41.8,       0.0);          ( 372315.9, 3768845.0,      41.5,       0.0);
    ( 372340.9, 3768845.0,      41.1,       0.0);          ( 372365.9, 3768845.0,      40.8,       0.0);
    ( 371340.9, 3768870.0,      56.3,       0.0);          ( 371365.9, 3768870.0,      55.7,       0.0);
    ( 371390.9, 3768870.0,      54.7,       0.0);          ( 371415.9, 3768870.0,      54.5,       0.0);
    ( 371440.9, 3768870.0,      54.2,       0.0);          ( 371465.9, 3768870.0,      54.2,       0.0);
    ( 371490.9, 3768870.0,      54.0,       0.0);          ( 371515.9, 3768870.0,      54.0,       0.0);
    ( 371540.9, 3768870.0,      53.5,       0.0);          ( 371565.9, 3768870.0,      53.5,       0.0);
    ( 371590.9, 3768870.0,      53.0,       0.0);          ( 371615.9, 3768870.0,      52.8,       0.0);
    ( 371640.9, 3768870.0,      52.2,       0.0);          ( 371665.9, 3768870.0,      52.1,       0.0);
    ( 371690.9, 3768870.0,      51.5,       0.0);          ( 371715.9, 3768870.0,      51.4,       0.0);
    ( 371740.9, 3768870.0,      51.0,       0.0);          ( 371765.9, 3768870.0,      50.7,       0.0);
    ( 371790.9, 3768870.0,      50.2,       0.0);          ( 371815.9, 3768870.0,      50.1,       0.0);
    ( 371840.9, 3768870.0,      49.7,       0.0);          ( 371865.9, 3768870.0,      49.5,       0.0);
    ( 371890.9, 3768870.0,      49.0,       0.0);          ( 371915.9, 3768870.0,      48.8,       0.0);
    ( 371940.9, 3768870.0,      48.2,       0.0);          ( 371965.9, 3768870.0,      47.9,       0.0);
    ( 371990.9, 3768870.0,      47.0,       0.0);          ( 372015.9, 3768870.0,      46.8,       0.0);
    ( 372040.9, 3768870.0,      46.2,       0.0);          ( 372065.9, 3768870.0,      45.9,       0.0);
    ( 372090.9, 3768870.0,      45.2,       0.0);          ( 372115.9, 3768870.0,      44.9,       0.0);
    ( 372140.9, 3768870.0,      44.2,       0.0);          ( 372165.9, 3768870.0,      43.9,       0.0);
    ( 372190.9, 3768870.0,      43.2,       0.0);          ( 372215.9, 3768870.0,      43.0,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05

                                    ***                                                               ***
13:26:49
 **MODELOPTs:
PAGE  12
 CONC                    URBAN ELEV                      NOSTD
HE>ZI


                                   *** DISCRETE CARTESIAN RECEPTORS ***
                                     (X-COORD, Y-COORD, ZELEV, ZFLAG)
                                                (METERS)

    ( 372240.9, 3768870.0,      42.5,       0.0);          ( 372265.9, 3768870.0,      42.3,       0.0);
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( 372290.9, 3768870.0,      41.8,       0.0);         ( 372315.9, 3768870.0,      41.6,       0.0);
( 372340.9, 3768870.0,      41.2,       0.0);         ( 372365.9, 3768870.0,      41.0,       0.0);
( 371340.9, 3768895.0,      56.8,       0.0);         ( 371365.9, 3768895.0,      55.9,       0.0);
( 371390.9, 3768895.0,      54.9,       0.0);         ( 371415.9, 3768895.0,      54.8,       0.0);
( 371440.9, 3768895.0,      54.5,       0.0);         ( 371465.9, 3768895.0,      54.5,       0.0);
( 371490.9, 3768895.0,      54.2,       0.0);         ( 371515.9, 3768895.0,      54.2,       0.0);
( 371540.9, 3768895.0,      53.8,       0.0);         ( 371565.9, 3768895.0,      53.5,       0.0);
( 371590.9, 3768895.0,      53.1,       0.0);         ( 371615.9, 3768895.0,      52.8,       0.0);
( 371640.9, 3768895.0,      52.3,       0.0);         ( 371665.9, 3768895.0,      52.1,       0.0);
( 371690.9, 3768895.0,      51.6,       0.0);         ( 371715.9, 3768895.0,      51.3,       0.0);
( 371740.9, 3768895.0,      51.0,       0.0);         ( 371765.9, 3768895.0,      50.7,       0.0);
( 371790.9, 3768895.0,      50.3,       0.0);         ( 371815.9, 3768895.0,      50.0,       0.0);
( 371840.9, 3768895.0,      49.6,       0.0);         ( 371865.9, 3768895.0,      49.5,       0.0);
( 371890.9, 3768895.0,      49.1,       0.0);         ( 371915.9, 3768895.0,      48.8,       0.0);
( 371940.9, 3768895.0,      48.3,       0.0);         ( 371965.9, 3768895.0,      47.8,       0.0);
( 371990.9, 3768895.0,      47.1,       0.0);         ( 372015.9, 3768895.0,      46.8,       0.0);
( 372040.9, 3768895.0,      46.1,       0.0);         ( 372065.9, 3768895.0,      45.8,       0.0);
( 372090.9, 3768895.0,      45.3,       0.0);         ( 372115.9, 3768895.0,      44.8,       0.0);
( 372140.9, 3768895.0,      44.3,       0.0);         ( 372165.9, 3768895.0,      43.8,       0.0);
( 372190.9, 3768895.0,      43.3,       0.0);         ( 372215.9, 3768895.0,      43.0,       0.0);
( 372240.9, 3768895.0,      42.5,       0.0);         ( 372265.9, 3768895.0,      42.3,       0.0);
( 372290.9, 3768895.0,      42.0,       0.0);         ( 372315.9, 3768895.0,      41.6,       0.0);
( 372340.9, 3768895.0,      41.3,       0.0);         ( 372365.9, 3768895.0,      41.0,       0.0);
( 371340.9, 3768920.0,      56.8,       0.0);         ( 371365.9, 3768920.0,      56.2,       0.0);
( 371390.9, 3768920.0,      55.2,       0.0);         ( 371415.9, 3768920.0,      55.1,       0.0);
( 371440.9, 3768920.0,      54.7,       0.0);         ( 371465.9, 3768920.0,      54.6,       0.0);
( 371490.9, 3768920.0,      54.5,       0.0);         ( 371515.9, 3768920.0,      54.3,       0.0);
( 371540.9, 3768920.0,      53.8,       0.0);         ( 371565.9, 3768920.0,      53.6,       0.0);
( 371590.9, 3768920.0,      53.0,       0.0);         ( 371615.9, 3768920.0,      52.8,       0.0);
( 371640.9, 3768920.0,      52.4,       0.0);         ( 371665.9, 3768920.0,      52.1,       0.0);
( 371690.9, 3768920.0,      51.5,       0.0);         ( 371715.9, 3768920.0,      51.5,       0.0);
( 371740.9, 3768920.0,      51.0,       0.0);         ( 371765.9, 3768920.0,      50.7,       0.0);
( 371790.9, 3768920.0,      50.2,       0.0);         ( 371815.9, 3768920.0,      50.0,       0.0);
( 371840.9, 3768920.0,      49.5,       0.0);         ( 371865.9, 3768920.0,      49.3,       0.0);
( 371890.9, 3768920.0,      49.0,       0.0);         ( 371915.9, 3768920.0,      48.7,       0.0);
( 371940.9, 3768920.0,      48.0,       0.0);         ( 371965.9, 3768920.0,      47.8,       0.0);
( 371990.9, 3768920.0,      47.0,       0.0);         ( 372015.9, 3768920.0,      46.7,       0.0);
( 372040.9, 3768920.0,      46.0,       0.0);         ( 372065.9, 3768920.0,      45.8,       0.0);
( 372090.9, 3768920.0,      45.2,       0.0);         ( 372115.9, 3768920.0,      44.9,       0.0);
( 372140.9, 3768920.0,      44.2,       0.0);         ( 372165.9, 3768920.0,      43.9,       0.0);
( 372190.9, 3768920.0,      43.2,       0.0);         ( 372215.9, 3768920.0,      43.0,       0.0);
( 372240.9, 3768920.0,      42.5,       0.0);         ( 372265.9, 3768920.0,      42.3,       0.0);
( 372290.9, 3768920.0,      41.9,       0.0);         ( 372315.9, 3768920.0,      41.7,       0.0);
( 372340.9, 3768920.0,      41.2,       0.0);         ( 372365.9, 3768920.0,      41.1,       0.0);
```

 CONC URBAN ELEV NOSTD
HE>ZI

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(	371340.9,	3768945.0,	57.2,	0.0);	(371365.9,	3768945.0,	56.5,	0.0);
(	371390.9,	3768945.0,	55.9,	0.0);	(371415.9,	3768945.0,	55.7,	0.0);
(	371440.9,	3768945.0,	55.3,	0.0);	(371465.9,	3768945.0,	55.1,	0.0);
(	371490.9,	3768945.0,	54.8,	0.0);	(371515.9,	3768945.0,	54.5,	0.0);
(	371540.9,	3768945.0,	54.0,	0.0);	(371565.9,	3768945.0,	53.6,	0.0);
(	371590.9,	3768945.0,	53.2,	0.0);	(371615.9,	3768945.0,	52.9,	0.0);
(	371640.9,	3768945.0,	52.5,	0.0);	(371665.9,	3768945.0,	52.1,	0.0);
(	371690.9,	3768945.0,	51.7,	0.0);	(371715.9,	3768945.0,	51.5,	0.0);
(	371740.9,	3768945.0,	51.0,	0.0);	(371765.9,	3768945.0,	50.7,	0.0);
(	371790.9,	3768945.0,	50.3,	0.0);	(371815.9,	3768945.0,	50.0,	0.0);
(	371840.9,	3768945.0,	49.5,	0.0);	(371865.9,	3768945.0,	49.2,	0.0);
(	371890.9,	3768945.0,	48.7,	0.0);	(371915.9,	3768945.0,	48.5,	0.0);
(	371940.9,	3768945.0,	48.1,	0.0);	(371965.9,	3768945.0,	47.6,	0.0);
(	371990.9,	3768945.0,	47.1,	0.0);	(372015.9,	3768945.0,	46.6,	0.0);
(	372040.9,	3768945.0,	46.1,	0.0);	(372065.9,	3768945.0,	45.7,	0.0);
(	372090.9,	3768945.0,	45.2,	0.0);	(372115.9,	3768945.0,	44.8,	0.0);
(	372140.9,	3768945.0,	44.3,	0.0);	(372165.9,	3768945.0,	44.0,	0.0);
(	372190.9,	3768945.0,	43.4,	0.0);	(372215.9,	3768945.0,	43.1,	0.0);
(	372240.9,	3768945.0,	42.6,	0.0);	(372265.9,	3768945.0,	42.3,	0.0);
(	372290.9,	3768945.0,	42.0,	0.0);	(372315.9,	3768945.0,	41.8,	0.0);
(	372340.9,	3768945.0,	41.5,	0.0);	(372365.9,	3768945.0,	41.2,	0.0);
(	371340.9,	3768970.0,	57.3,	0.0);	(371365.9,	3768970.0,	56.8,	0.0);
(	371390.9,	3768970.0,	56.1,	0.0);	(371415.9,	3768970.0,	55.9,	0.0);
(	371440.9,	3768970.0,	55.5,	0.0);	(371465.9,	3768970.0,	55.3,	0.0);
(	371490.9,	3768970.0,	54.8,	0.0);	(371515.9,	3768970.0,	54.6,	0.0);
(	371540.9,	3768970.0,	54.0,	0.0);	(371565.9,	3768970.0,	53.6,	0.0);
(	371590.9,	3768970.0,	53.2,	0.0);	(371615.9,	3768970.0,	53.0,	0.0);
(	371640.9,	3768970.0,	52.4,	0.0);	(371665.9,	3768970.0,	52.1,	0.0);
(	371690.9,	3768970.0,	51.7,	0.0);	(371715.9,	3768970.0,	51.5,	0.0);
(	371740.9,	3768970.0,	51.0,	0.0);	(371765.9,	3768970.0,	50.7,	0.0);

(371790.9, 3768970.0, 50.2, 0.0); (371815.9, 3768970.0, 50.0, 0.0);
(371840.9, 3768970.0, 49.5, 0.0); (371865.9, 3768970.0, 49.2, 0.0);
(371890.9, 3768970.0, 48.7, 0.0); (371915.9, 3768970.0, 48.4, 0.0);
(371940.9, 3768970.0, 47.9, 0.0); (371965.9, 3768970.0, 47.6, 0.0);
(371990.9, 3768970.0, 47.0, 0.0); (372015.9, 3768970.0, 46.6, 0.0);
(372040.9, 3768970.0, 46.0, 0.0); (372065.9, 3768970.0, 45.7, 0.0);
(372090.9, 3768970.0, 45.2, 0.0); (372115.9, 3768970.0, 44.9, 0.0);
(372140.9, 3768970.0, 44.2, 0.0); (372165.9, 3768970.0, 44.0, 0.0);
(372190.9, 3768970.0, 43.4, 0.0); (372215.9, 3768970.0, 43.1, 0.0);
(372240.9, 3768970.0, 42.5, 0.0); (372265.9, 3768970.0, 42.5, 0.0);
(372290.9, 3768970.0, 42.0, 0.0); (372315.9, 3768970.0, 41.8, 0.0);
(372340.9, 3768970.0, 41.5, 0.0); (372365.9, 3768970.0, 41.3, 0.0);
(371340.9, 3768995.0, 57.6, 0.0); (371365.9, 3768995.0, 57.1, 0.0);
(371390.9, 3768995.0, 56.4, 0.0); (371415.9, 3768995.0, 56.1, 0.0);

(371440.9, 3768995.0, 55.7, 0.0); (371465.9, 3768995.0, 55.3, 0.0);

**MODELOPTs:
PAGE 14
CONC URBAN ELEV NOSTD HE>ZI

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(371490.9, 3768995.0, 54.8, 0.0); (371515.9, 3768995.0, 54.5, 0.0);
(371540.9, 3768995.0, 54.1, 0.0); (371565.9, 3768995.0, 53.7, 0.0);
(371590.9, 3768995.0, 53.3, 0.0); (371615.9, 3768995.0, 52.8, 0.0);
(371640.9, 3768995.0, 52.5, 0.0); (371665.9, 3768995.0, 52.1, 0.0);
(371690.9, 3768995.0, 51.7, 0.0); (371715.9, 3768995.0, 51.5, 0.0);
(371815.9, 3768995.0, 50.0, 0.0); (371840.9, 3768995.0, 49.5, 0.0);
(371865.9, 3768995.0, 49.1, 0.0); (371890.9, 3768995.0, 48.7, 0.0);
(371915.9, 3768995.0, 48.3, 0.0); (371940.9, 3768995.0, 47.8, 0.0);
(371965.9, 3768995.0, 47.6, 0.0); (371990.9, 3768995.0, 47.0, 0.0);
(372015.9, 3768995.0, 46.6, 0.0); (372040.9, 3768995.0, 46.1, 0.0);
(372065.9, 3768995.0, 45.7, 0.0); (372090.9, 3768995.0, 45.2, 0.0);
(372115.9, 3768995.0, 45.0, 0.0); (372140.9, 3768995.0, 44.5, 0.0);
(372165.9, 3768995.0, 44.1, 0.0); (372190.9, 3768995.0, 43.6, 0.0);
(372215.9, 3768995.0, 43.2, 0.0); (372240.9, 3768995.0, 42.8, 0.0);

```
    ( 372265.9, 3768995.0,      42.5,       0.0);         ( 372290.9, 3768995.0,      42.2,       0.0);
    ( 372315.9, 3768995.0,      42.0,       0.0);         ( 372340.9, 3768995.0,      41.6,       0.0);
    ( 372365.9, 3768995.0,      41.5,       0.0);         ( 371340.9, 3769020.0,      57.6,       0.0);
    ( 371365.9, 3769020.0,      57.1,       0.0);         ( 371390.9, 3769020.0,      56.5,       0.0);
    ( 371415.9, 3769020.0,      56.1,       0.0);         ( 371440.9, 3769020.0,      55.5,       0.0);
    ( 371465.9, 3769020.0,      55.3,       0.0);         ( 371490.9, 3769020.0,      54.7,       0.0);
    ( 371515.9, 3769020.0,      54.5,       0.0);         ( 371540.9, 3769020.0,      54.0,       0.0);
    ( 371565.9, 3769020.0,      53.7,       0.0);         ( 371590.9, 3769020.0,      53.2,       0.0);

    ( 371615.9, 3769020.0,      53.0,       0.0);         ( 371640.9, 3769020.0,      52.4,       0.0);
    ( 371665.9, 3769020.0,      52.1,       0.0);         ( 371690.9, 3769020.0,      51.7,       0.0);
    ( 371715.9, 3769020.0,      51.5,       0.0);         ( 371740.9, 3769020.0,      51.0,       0.0);
    ( 371765.9, 3769020.0,      50.7,       0.0);         ( 371790.9, 3769020.0,      50.2,       0.0);
    ( 371815.9, 3769020.0,      50.0,       0.0);         ( 371840.9, 3769020.0,      49.4,       0.0);
    ( 371865.9, 3769020.0,      49.1,       0.0);         ( 371890.9, 3769020.0,      48.7,       0.0);
    ( 371915.9, 3769020.0,      48.4,       0.0);         ( 371940.9, 3769020.0,      47.8,       0.0);
    ( 371965.9, 3769020.0,      47.6,       0.0);         ( 371990.9, 3769020.0,      46.9,       0.0);
    ( 372015.9, 3769020.0,      46.6,       0.0);         ( 372040.9, 3769020.0,      46.0,       0.0);
    ( 372065.9, 3769020.0,      45.8,       0.0);         ( 372090.9, 3769020.0,      45.2,       0.0);
    ( 372115.9, 3769020.0,      45.0,       0.0);         ( 372140.9, 3769020.0,      44.4,       0.0);
    ( 372165.9, 3769020.0,      44.1,       0.0);         ( 372190.9, 3769020.0,      43.5,       0.0);
    ( 372215.9, 3769020.0,      43.3,       0.0);         ( 372240.9, 3769020.0,      42.8,       0.0);
    ( 372265.9, 3769020.0,      42.6,       0.0);         ( 372290.9, 3769020.0,      42.2,       0.0);
    ( 372315.9, 3769020.0,      42.1,       0.0);         ( 372340.9, 3769020.0,      41.7,       0.0);
    ( 372365.9, 3769020.0,      41.6,       0.0);         ( 371340.9, 3769045.0,      57.7,       0.0);
    ( 371365.9, 3769045.0,      57.2,       0.0);         ( 371390.9, 3769045.0,      56.6,       0.0);
    ( 371415.9, 3769045.0,      56.1,       0.0);         ( 371440.9, 3769045.0,      55.6,       0.0);
    ( 371465.9, 3769045.0,      55.1,       0.0);         ( 371490.9, 3769045.0,      54.6,       0.0);
    ( 371515.9, 3769045.0,      54.5,       0.0);         ( 371540.9, 3769045.0,      54.0,       0.0);
    ( 371565.9, 3769045.0,      53.7,       0.0);         ( 371590.9, 3769045.0,      53.3,       0.0);
    ( 371615.9, 3769045.0,      53.0,       0.0);         ( 371640.9, 3769045.0,      52.6,       0.0);
    ( 371665.9, 3769045.0,      52.3,       0.0);         ( 371690.9, 3769045.0,      51.8,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05
                                    ***                                                               ***
13:26:49
 **MODELOPTs:
PAGE  15
 CONC                    URBAN ELEV                      NOSTD
HE>ZI


                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                    (X-COORD, Y-COORD, ZELEV, ZFLAG)
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(METERS)

(371715.9,	3769045.0,	51.4,	0.0);	(371740.9,	3769045.0,	51.0,	0.0);
(371765.9,	3769045.0,	50.7,	0.0);	(371790.9,	3769045.0,	50.3,	0.0);
(371815.9,	3769045.0,	50.0,	0.0);	(371840.9,	3769045.0,	49.5,	0.0);
(371865.9,	3769045.0,	49.2,	0.0);	(371890.9,	3769045.0,	48.7,	0.0);
(371915.9,	3769045.0,	48.5,	0.0);	(371940.9,	3769045.0,	48.0,	0.0);
(371965.9,	3769045.0,	47.6,	0.0);	(371990.9,	3769045.0,	47.1,	0.0);
(372015.9,	3769045.0,	46.6,	0.0);	(372040.9,	3769045.0,	46.1,	0.0);
(372065.9,	3769045.0,	45.8,	0.0);	(372090.9,	3769045.0,	45.3,	0.0);
(372115.9,	3769045.0,	45.0,	0.0);	(372140.9,	3769045.0,	44.6,	0.0);
(372165.9,	3769045.0,	44.2,	0.0);	(372190.9,	3769045.0,	43.8,	0.0);
(372215.9,	3769045.0,	43.5,	0.0);	(372240.9,	3769045.0,	43.0,	0.0);
(372265.9,	3769045.0,	42.8,	0.0);	(372290.9,	3769045.0,	42.5,	0.0);
(372315.9,	3769045.0,	42.4,	0.0);	(372340.9,	3769045.0,	42.0,	0.0);
(372365.9,	3769045.0,	41.8,	0.0);	(371340.9,	3769070.0,	57.6,	0.0);
(371365.9,	3769070.0,	57.2,	0.0);	(371390.9,	3769070.0,	56.5,	0.0);
(371415.9,	3769070.0,	56.1,	0.0);	(371440.9,	3769070.0,	55.5,	0.0);
(371465.9,	3769070.0,	55.1,	0.0);	(371490.9,	3769070.0,	54.5,	0.0);
(371515.9,	3769070.0,	54.4,	0.0);	(371540.9,	3769070.0,	54.0,	0.0);
(371565.9,	3769070.0,	53.7,	0.0);	(371590.9,	3769070.0,	53.2,	0.0);
(371615.9,	3769070.0,	53.0,	0.0);	(371640.9,	3769070.0,	52.5,	0.0);
(371665.9,	3769070.0,	52.3,	0.0);	(371690.9,	3769070.0,	51.7,	0.0);
(371715.9,	3769070.0,	51.6,	0.0);	(371740.9,	3769070.0,	51.0,	0.0);
(371765.9,	3769070.0,	50.8,	0.0);	(371790.9,	3769070.0,	50.2,	0.0);
(371815.9,	3769070.0,	50.0,	0.0);	(371840.9,	3769070.0,	49.5,	0.0);
(371865.9,	3769070.0,	49.2,	0.0);	(371890.9,	3769070.0,	48.7,	0.0);
(371915.9,	3769070.0,	48.5,	0.0);	(371940.9,	3769070.0,	47.9,	0.0);
(371965.9,	3769070.0,	47.6,	0.0);	(371990.9,	3769070.0,	47.0,	0.0);
(372015.9,	3769070.0,	46.8,	0.0);	(372040.9,	3769070.0,	46.0,	0.0);
(372065.9,	3769070.0,	45.8,	0.0);	(372090.9,	3769070.0,	45.2,	0.0);
(372115.9,	3769070.0,	45.1,	0.0);	(372140.9,	3769070.0,	44.5,	0.0);
(372165.9,	3769070.0,	44.4,	0.0);	(372190.9,	3769070.0,	43.8,	0.0);
(372215.9,	3769070.0,	43.6,	0.0);	(372240.9,	3769070.0,	43.0,	0.0);
(372265.9,	3769070.0,	42.9,	0.0);	(372290.9,	3769070.0,	42.7,	0.0);
(372315.9,	3769070.0,	42.5,	0.0);	(372340.9,	3769070.0,	42.0,	0.0);
(372365.9,	3769070.0,	41.8,	0.0);	(371340.9,	3769095.0,	57.7,	0.0);
(371365.9,	3769095.0,	57.1,	0.0);	(371390.9,	3769095.0,	56.5,	0.0);
(371415.9,	3769095.0,	56.1,	0.0);	(371440.9,	3769095.0,	55.5,	0.0);
(371465.9,	3769095.0,	55.1,	0.0);	(371490.9,	3769095.0,	54.6,	0.0);
(371515.9,	3769095.0,	54.3,	0.0);	(371540.9,	3769095.0,	54.0,	0.0);
(371565.9,	3769095.0,	53.7,	0.0);	(371590.9,	3769095.0,	53.3,	0.0);
(371615.9,	3769095.0,	53.0,	0.0);	(371640.9,	3769095.0,	52.6,	0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(	371665.9,	3769095.0,	52.3,	0.0);	(371690.9,	3769095.0,	51.9,	0.0);
(	371715.9,	3769095.0,	51.6,	0.0);	(371740.9,	3769095.0,	51.1,	0.0);
(	371765.9,	3769095.0,	50.8,	0.0);	(371790.9,	3769095.0,	50.4,	0.0);
(	371815.9,	3769095.0,	50.1,	0.0);	(371840.9,	3769095.0,	49.6,	0.0);
(	371865.9,	3769095.0,	49.2,	0.0);	(371890.9,	3769095.0,	48.8,	0.0);
(	371915.9,	3769095.0,	48.5,	0.0);	(371940.9,	3769095.0,	48.0,	0.0);
(	371965.9,	3769095.0,	47.8,	0.0);	(371990.9,	3769095.0,	47.2,	0.0);
(	372015.9,	3769095.0,	46.8,	0.0);	(372040.9,	3769095.0,	46.3,	0.0);
(	372065.9,	3769095.0,	45.9,	0.0);	(372090.9,	3769095.0,	45.5,	0.0);
(	372115.9,	3769095.0,	45.1,	0.0);	(372140.9,	3769095.0,	44.7,	0.0);
(	372165.9,	3769095.0,	44.5,	0.0);	(372190.9,	3769095.0,	44.0,	0.0);
(	372215.9,	3769095.0,	43.8,	0.0);	(372240.9,	3769095.0,	43.4,	0.0);
(	372265.9,	3769095.0,	43.2,	0.0);	(372290.9,	3769095.0,	42.8,	0.0);
(	372315.9,	3769095.0,	42.6,	0.0);	(372340.9,	3769095.0,	42.2,	0.0);
(	372365.9,	3769095.0,	42.0,	0.0);	(371340.9,	3769120.0,	57.5,	0.0);
(	371365.9,	3769120.0,	57.1,	0.0);	(371390.9,	3769120.0,	56.4,	0.0);
(	371415.9,	3769120.0,	56.1,	0.0);	(371440.9,	3769120.0,	55.4,	0.0);
(	371465.9,	3769120.0,	55.1,	0.0);	(371490.9,	3769120.0,	54.5,	0.0);
(	371515.9,	3769120.0,	54.4,	0.0);	(371540.9,	3769120.0,	53.9,	0.0);
(	371565.9,	3769120.0,	53.7,	0.0);	(371590.9,	3769120.0,	53.2,	0.0);
(	371615.9,	3769120.0,	53.0,	0.0);	(371640.9,	3769120.0,	52.5,	0.0);
(	371665.9,	3769120.0,	52.4,	0.0);	(371690.9,	3769120.0,	51.9,	0.0);
(	371715.9,	3769120.0,	51.6,	0.0);	(371740.9,	3769120.0,	51.0,	0.0);
(	371765.9,	3769120.0,	50.9,	0.0);	(371790.9,	3769120.0,	50.4,	0.0);
(	371815.9,	3769120.0,	50.1,	0.0);	(371840.9,	3769120.0,	49.5,	0.0);
(	371865.9,	3769120.0,	49.3,	0.0);	(371890.9,	3769120.0,	48.7,	0.0);
(	371915.9,	3769120.0,	48.5,	0.0);	(371940.9,	3769120.0,	48.0,	0.0);
(	371965.9,	3769120.0,	47.8,	0.0);	(371990.9,	3769120.0,	47.2,	0.0);
(	372015.9,	3769120.0,	46.9,	0.0);	(372040.9,	3769120.0,	46.2,	0.0);
(	372065.9,	3769120.0,	46.0,	0.0);	(372090.9,	3769120.0,	45.5,	0.0);

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    ( 372115.9, 3769120.0,      45.2,       0.0);         ( 372140.9, 3769120.0,      44.7,       0.0);
    ( 372165.9, 3769120.0,      44.6,       0.0);         ( 372190.9, 3769120.0,      44.0,       0.0);
    ( 372215.9, 3769120.0,      43.9,       0.0);         ( 372240.9, 3769120.0,      43.5,       0.0);
    ( 372265.9, 3769120.0,      43.3,       0.0);         ( 372290.9, 3769120.0,      42.9,       0.0);
    ( 372315.9, 3769120.0,      42.6,       0.0);         ( 372340.9, 3769120.0,      42.2,       0.0);
    ( 372365.9, 3769120.0,      42.1,       0.0);         ( 371340.9, 3769145.0,      57.6,       0.0);
    ( 371365.9, 3769145.0,      57.1,       0.0);         ( 371390.9, 3769145.0,      56.5,       0.0);
    ( 371415.9, 3769145.0,      56.1,       0.0);         ( 371440.9, 3769145.0,      55.5,       0.0);
    ( 371465.9, 3769145.0,      55.1,       0.0);         ( 371490.9, 3769145.0,      54.6,       0.0);
    ( 371515.9, 3769145.0,      54.4,       0.0);         ( 371540.9, 3769145.0,      54.0,       0.0);
    ( 371565.9, 3769145.0,      53.8,       0.0);         ( 371590.9, 3769145.0,      53.3,       0.0);
    ( 371615.9, 3769145.0,      53.1,       0.0);         ( 371640.9, 3769145.0,      52.7,       0.0);
    ( 371665.9, 3769145.0,      52.5,       0.0);         ( 371690.9, 3769145.0,      52.0,       0.0);
    ( 371715.9, 3769145.0,      51.6,       0.0);         ( 371740.9, 3769145.0,      51.3,       0.0);
    ( 371765.9, 3769145.0,      51.0,       0.0);         ( 371790.9, 3769145.0,      50.5,       0.0);
    ( 371815.9, 3769145.0,      50.2,       0.0);         ( 371840.9, 3769145.0,      49.8,       0.0);
    ( 371865.9, 3769145.0,      49.5,       0.0);         ( 371890.9, 3769145.0,      49.0,       0.0);
    ( 371915.9, 3769145.0,      48.8,       0.0);         ( 371940.9, 3769145.0,      48.3,       0.0);
    ( 371965.9, 3769145.0,      48.0,       0.0);         ( 371990.9, 3769145.0,      47.5,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05
                                    ***                                                               ***
13:26:49
 **MODELOPTs:
PAGE  17
 CONC                    URBAN ELEV                      NOSTD
HE>ZI


                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                    (X-COORD, Y-COORD, ZELEV, ZFLAG)
                                              (METERS)

    ( 372015.9, 3769145.0,      47.1,       0.0);         ( 372040.9, 3769145.0,      46.5,       0.0);
    ( 372065.9, 3769145.0,      46.1,       0.0);         ( 372090.9, 3769145.0,      45.6,       0.0);
    ( 372115.9, 3769145.0,      45.3,       0.0);         ( 372140.9, 3769145.0,      45.0,       0.0);
    ( 372165.9, 3769145.0,      44.8,       0.0);         ( 372190.9, 3769145.0,      44.3,       0.0);
    ( 372215.9, 3769145.0,      44.1,       0.0);         ( 372240.9, 3769145.0,      43.6,       0.0);
    ( 372265.9, 3769145.0,      43.5,       0.0);         ( 372290.9, 3769145.0,      43.0,       0.0);
    ( 372315.9, 3769145.0,      42.8,       0.0);         ( 372340.9, 3769145.0,      42.5,       0.0);
    ( 372365.9, 3769145.0,      42.2,       0.0);         ( 371340.9, 3769170.0,      57.5,       0.0);
    ( 371365.9, 3769170.0,      57.1,       0.0);         ( 371390.9, 3769170.0,      56.4,       0.0);
    ( 371415.9, 3769170.0,      56.1,       0.0);         ( 371440.9, 3769170.0,      55.4,       0.0);
    ( 371465.9, 3769170.0,      55.1,       0.0);         ( 371490.9, 3769170.0,      54.5,       0.0);
```

```
    ( 371515.9, 3769170.0,      54.5,       0.0);          ( 371540.9, 3769170.0,      54.0,       0.0);
    ( 371565.9, 3769170.0,      53.8,       0.0);          ( 371590.9, 3769170.0,      53.4,       0.0);
    ( 371615.9, 3769170.0,      53.1,       0.0);          ( 371640.9, 3769170.0,      52.7,       0.0);
    ( 371665.9, 3769170.0,      52.5,       0.0);          ( 371690.9, 3769170.0,      52.0,       0.0);
    ( 371715.9, 3769170.0,      51.8,       0.0);          ( 371740.9, 3769170.0,      51.2,       0.0);
    ( 371765.9, 3769170.0,      51.0,       0.0);          ( 371790.9, 3769170.0,      50.5,       0.0);
    ( 371815.9, 3769170.0,      50.2,       0.0);          ( 371840.9, 3769170.0,      49.7,       0.0);
    ( 371865.9, 3769170.0,      49.6,       0.0);          ( 371890.9, 3769170.0,      49.0,       0.0);
    ( 371915.9, 3769170.0,      49.0,       0.0);          ( 371940.9, 3769170.0,      48.4,       0.0);
    ( 371965.9, 3769170.0,      48.1,       0.0);          ( 371990.9, 3769170.0,      47.4,       0.0);
    ( 372015.9, 3769170.0,      47.1,       0.0);          ( 372040.9, 3769170.0,      46.5,       0.0);
    ( 372065.9, 3769170.0,      46.1,       0.0);          ( 372090.9, 3769170.0,      45.5,       0.0);
    ( 372115.9, 3769170.0,      45.5,       0.0);          ( 372140.9, 3769170.0,      45.0,       0.0);
    ( 372165.9, 3769170.0,      44.8,       0.0);          ( 372190.9, 3769170.0,      44.4,       0.0);
    ( 372215.9, 3769170.0,      44.1,       0.0);          ( 372240.9, 3769170.0,      43.7,       0.0);
    ( 372265.9, 3769170.0,      43.5,       0.0);          ( 372290.9, 3769170.0,      43.0,       0.0);
    ( 372315.9, 3769170.0,      42.8,       0.0);          ( 372340.9, 3769170.0,      42.5,       0.0);
    ( 372365.9, 3769170.0,      42.3,       0.0);          ( 371340.9, 3769195.0,      57.5,       0.0);
    ( 371365.9, 3769195.0,      57.1,       0.0);          ( 371390.9, 3769195.0,      56.5,       0.0);
    ( 371415.9, 3769195.0,      56.1,       0.0);          ( 371440.9, 3769195.0,      55.6,       0.0);
    ( 371465.9, 3769195.0,      55.2,       0.0);          ( 371490.9, 3769195.0,      54.8,       0.0);
    ( 371515.9, 3769195.0,      54.5,       0.0);          ( 371540.9, 3769195.0,      54.1,       0.0);
    ( 371565.9, 3769195.0,      53.9,       0.0);          ( 371590.9, 3769195.0,      53.5,       0.0);
    ( 371615.9, 3769195.0,      53.2,       0.0);          ( 371640.9, 3769195.0,      52.8,       0.0);
    ( 371665.9, 3769195.0,      52.5,       0.0);          ( 371690.9, 3769195.0,      52.1,       0.0);
    ( 371715.9, 3769195.0,      51.8,       0.0);          ( 371740.9, 3769195.0,      51.3,       0.0);
    ( 371765.9, 3769195.0,      51.0,       0.0);          ( 371790.9, 3769195.0,      50.6,       0.0);
    ( 371815.9, 3769195.0,      50.3,       0.0);          ( 371840.9, 3769195.0,      50.0,       0.0);
    ( 371865.9, 3769195.0,      49.7,       0.0);          ( 371890.9, 3769195.0,      49.3,       0.0);
    ( 371915.9, 3769195.0,      49.0,       0.0);          ( 371940.9, 3769195.0,      48.5,       0.0);
    ( 371965.9, 3769195.0,      48.2,       0.0);          ( 371990.9, 3769195.0,      47.6,       0.0);
    ( 372015.9, 3769195.0,      47.3,       0.0);          ( 372040.9, 3769195.0,      46.7,       0.0);
    ( 372065.9, 3769195.0,      46.3,       0.0);          ( 372090.9, 3769195.0,      46.0,       0.0);
    ( 372115.9, 3769195.0,      45.8,       0.0);          ( 372140.9, 3769195.0,      45.3,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05                            ***                                                               ***
13:26:49
 **MODELOPTs:
PAGE  18
 CONC                    URBAN ELEV                      NOSTD
HE>ZI
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(372165.9,	3769195.0,	45.0,	0.0);	(372190.9,	3769195.0,	44.6,	0.0);
(372215.9,	3769195.0,	44.4,	0.0);	(372240.9,	3769195.0,	44.0,	0.0);
(372265.9,	3769195.0,	43.7,	0.0);	(372290.9,	3769195.0,	43.3,	0.0);
(372315.9,	3769195.0,	43.0,	0.0);	(372340.9,	3769195.0,	42.7,	0.0);
(372365.9,	3769195.0,	42.5,	0.0);	(371340.9,	3769220.0,	57.4,	0.0);
(371365.9,	3769220.0,	57.1,	0.0);	(371390.9,	3769220.0,	56.4,	0.0);
(371415.9,	3769220.0,	56.1,	0.0);	(371440.9,	3769220.0,	55.5,	0.0);
(371465.9,	3769220.0,	55.3,	0.0);	(371490.9,	3769220.0,	54.8,	0.0);
(371515.9,	3769220.0,	54.6,	0.0);	(371540.9,	3769220.0,	54.2,	0.0);
(371565.9,	3769220.0,	54.0,	0.0);	(371590.9,	3769220.0,	53.5,	0.0);
(371615.9,	3769220.0,	53.3,	0.0);	(371640.9,	3769220.0,	52.7,	0.0);
(371665.9,	3769220.0,	52.5,	0.0);	(371690.9,	3769220.0,	52.0,	0.0);
(371715.9,	3769220.0,	51.8,	0.0);	(371740.9,	3769220.0,	51.3,	0.0);
(371765.9,	3769220.0,	51.1,	0.0);	(371790.9,	3769220.0,	50.5,	0.0);
(371815.9,	3769220.0,	50.4,	0.0);	(371840.9,	3769220.0,	50.0,	0.0);
(371865.9,	3769220.0,	49.7,	0.0);	(371890.9,	3769220.0,	49.2,	0.0);
(371915.9,	3769220.0,	49.1,	0.0);	(371940.9,	3769220.0,	48.5,	0.0);
(371965.9,	3769220.0,	48.3,	0.0);	(371990.9,	3769220.0,	47.7,	0.0);
(372015.9,	3769220.0,	47.4,	0.0);	(372040.9,	3769220.0,	46.7,	0.0);
(372065.9,	3769220.0,	46.5,	0.0);	(372090.9,	3769220.0,	46.0,	0.0);
(372115.9,	3769220.0,	45.8,	0.0);	(372140.9,	3769220.0,	45.3,	0.0);
(372165.9,	3769220.0,	45.1,	0.0);	(372190.9,	3769220.0,	44.7,	0.0);
(372215.9,	3769220.0,	44.5,	0.0);	(372240.9,	3769220.0,	44.0,	0.0);
(372265.9,	3769220.0,	43.8,	0.0);	(372290.9,	3769220.0,	43.3,	0.0);
(372315.9,	3769220.0,	43.1,	0.0);	(372340.9,	3769220.0,	42.7,	0.0);
(372365.9,	3769220.0,	42.6,	0.0);	(371340.9,	3769245.0,	57.3,	0.0);
(371365.9,	3769245.0,	57.1,	0.0);	(371390.9,	3769245.0,	56.6,	0.0);
(371415.9,	3769245.0,	56.2,	0.0);	(371440.9,	3769245.0,	55.8,	0.0);
(371465.9,	3769245.0,	55.5,	0.0);	(371490.9,	3769245.0,	55.0,	0.0);
(371515.9,	3769245.0,	54.7,	0.0);	(371540.9,	3769245.0,	54.3,	0.0);
(371565.9,	3769245.0,	54.0,	0.0);	(371590.9,	3769245.0,	53.6,	0.0);
(371615.9,	3769245.0,	53.3,	0.0);	(371640.9,	3769245.0,	52.8,	0.0);
(371665.9,	3769245.0,	52.6,	0.0);	(371690.9,	3769245.0,	52.1,	0.0);
(371715.9,	3769245.0,	52.0,	0.0);	(371740.9,	3769245.0,	51.5,	0.0);
(371765.9,	3769245.0,	51.1,	0.0);	(371790.9,	3769245.0,	50.7,	0.0);
(371815.9,	3769245.0,	50.5,	0.0);	(371840.9,	3769245.0,	50.0,	0.0);
(371865.9,	3769245.0,	49.8,	0.0);	(371890.9,	3769245.0,	49.5,	0.0);
(371915.9,	3769245.0,	49.1,	0.0);	(371940.9,	3769245.0,	48.6,	0.0);
(371965.9,	3769245.0,	48.3,	0.0);	(371990.9,	3769245.0,	47.8,	0.0);
(372015.9,	3769245.0,	47.5,	0.0);	(372040.9,	3769245.0,	47.0,	0.0);

(372065.9, 3769245.0, 46.6, 0.0); (372090.9, 3769245.0, 46.2, 0.0);
(372115.9, 3769245.0, 46.0, 0.0); (372140.9, 3769245.0, 45.5, 0.0);
(372165.9, 3769245.0, 45.2, 0.0); (372190.9, 3769245.0, 44.8, 0.0);
(372215.9, 3769245.0, 44.6, 0.0); (372240.9, 3769245.0, 44.1, 0.0);
(372265.9, 3769245.0, 43.9, 0.0); (372290.9, 3769245.0, 43.5, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(372315.9, 3769245.0, 43.3, 0.0); (372340.9, 3769245.0, 43.0, 0.0);
(372365.9, 3769245.0, 42.8, 0.0); (371340.9, 3769270.0, 57.2, 0.0);
(371365.9, 3769270.0, 57.0, 0.0); (371390.9, 3769270.0, 56.5, 0.0);
(371415.9, 3769270.0, 56.3, 0.0); (371440.9, 3769270.0, 55.7, 0.0);
(371465.9, 3769270.0, 55.5, 0.0); (371490.9, 3769270.0, 55.0, 0.0);
(371515.9, 3769270.0, 54.8, 0.0); (371540.9, 3769270.0, 54.2, 0.0);
(371565.9, 3769270.0, 54.1, 0.0); (371590.9, 3769270.0, 53.5, 0.0);
(371615.9, 3769270.0, 53.3, 0.0); (371640.9, 3769270.0, 52.8, 0.0);
(371665.9, 3769270.0, 52.6, 0.0); (371690.9, 3769270.0, 52.2, 0.0);
(371715.9, 3769270.0, 52.0, 0.0); (371740.9, 3769270.0, 51.4, 0.0);
(371765.9, 3769270.0, 51.1, 0.0); (371790.9, 3769270.0, 50.7, 0.0);
(371815.9, 3769270.0, 50.5, 0.0); (371840.9, 3769270.0, 50.0, 0.0);
(371865.9, 3769270.0, 49.8, 0.0); (371890.9, 3769270.0, 49.4, 0.0);
(371915.9, 3769270.0, 49.1, 0.0); (371940.9, 3769270.0, 48.7, 0.0);
(371965.9, 3769270.0, 48.5, 0.0); (371990.9, 3769270.0, 47.8, 0.0);
(372015.9, 3769270.0, 47.6, 0.0); (372040.9, 3769270.0, 47.0, 0.0);
(372065.9, 3769270.0, 46.8, 0.0); (372090.9, 3769270.0, 46.2, 0.0);
(372115.9, 3769270.0, 46.0, 0.0); (372140.9, 3769270.0, 45.5, 0.0);
(372165.9, 3769270.0, 45.3, 0.0); (372190.9, 3769270.0, 44.9, 0.0);
(372215.9, 3769270.0, 44.6, 0.0); (372240.9, 3769270.0, 44.2, 0.0);
(372265.9, 3769270.0, 44.0, 0.0); (372290.9, 3769270.0, 43.5, 0.0);
(372315.9, 3769270.0, 43.5, 0.0); (372340.9, 3769270.0, 43.0, 0.0);
(372365.9, 3769270.0, 43.0, 0.0); (371340.9, 3769295.0, 57.3, 0.0);
(371365.9, 3769295.0, 57.0, 0.0); (371390.9, 3769295.0, 56.6, 0.0);
(371415.9, 3769295.0, 56.3, 0.0); (371440.9, 3769295.0, 55.8, 0.0);

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    ( 371465.9, 3769295.0,      55.6,       0.0);         ( 371490.9, 3769295.0,      55.1,       0.0);
    ( 371515.9, 3769295.0,      54.8,       0.0);         ( 371540.9, 3769295.0,      54.5,       0.0);
    ( 371565.9, 3769295.0,      54.1,       0.0);         ( 371590.9, 3769295.0,      53.6,       0.0);
    ( 371615.9, 3769295.0,      53.4,       0.0);         ( 371640.9, 3769295.0,      53.0,       0.0);
    ( 371665.9, 3769295.0,      52.6,       0.0);         ( 371690.9, 3769295.0,      52.2,       0.0);
    ( 371715.9, 3769295.0,      52.0,       0.0);         ( 371740.9, 3769295.0,      51.5,       0.0);
    ( 371765.9, 3769295.0,      51.2,       0.0);         ( 371790.9, 3769295.0,      50.8,       0.0);
    ( 371815.9, 3769295.0,      50.6,       0.0);         ( 371840.9, 3769295.0,      50.1,       0.0);
    ( 371865.9, 3769295.0,      49.9,       0.0);         ( 371890.9, 3769295.0,      49.5,       0.0);
    ( 371915.9, 3769295.0,      49.2,       0.0);         ( 371940.9, 3769295.0,      48.8,       0.0);
    ( 371965.9, 3769295.0,      48.5,       0.0);         ( 371990.9, 3769295.0,      48.0,       0.0);
    ( 372015.9, 3769295.0,      47.6,       0.0);         ( 372040.9, 3769295.0,      47.1,       0.0);
    ( 372065.9, 3769295.0,      46.8,       0.0);         ( 372090.9, 3769295.0,      46.4,       0.0);
    ( 372115.9, 3769295.0,      46.1,       0.0);         ( 372140.9, 3769295.0,      45.6,       0.0);
    ( 372165.9, 3769295.0,      45.5,       0.0);         ( 372190.9, 3769295.0,      45.0,       0.0);

    ( 372215.9, 3769295.0,      44.8,       0.0);         ( 372240.9, 3769295.0,      44.4,       0.0);
    ( 372265.9, 3769295.0,      44.1,       0.0);         ( 372290.9, 3769295.0,      43.7,       0.0);
    ( 372315.9, 3769295.0,      43.5,       0.0);         ( 372340.9, 3769295.0,      43.2,       0.0);
    ( 372365.9, 3769295.0,      43.0,       0.0);         ( 371340.9, 3769320.0,      57.2,       0.0);
    ( 371365.9, 3769320.0,      57.1,       0.0);         ( 371390.9, 3769320.0,      56.5,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05
                                   ***                                                               ***
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 **MODELOPTs:
PAGE  20
 CONC                    URBAN ELEV                     NOSTD
HE>ZI


                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                    (X-COORD, Y-COORD, ZELEV, ZFLAG)
                                              (METERS)

    ( 371415.9, 3769320.0,      56.3,       0.0);         ( 371440.9, 3769320.0,      55.9,       0.0);
    ( 371465.9, 3769320.0,      55.6,       0.0);         ( 371490.9, 3769320.0,      55.2,       0.0);
    ( 371515.9, 3769320.0,      55.0,       0.0);         ( 371540.9, 3769320.0,      54.4,       0.0);
    ( 371565.9, 3769320.0,      54.1,       0.0);         ( 371590.9, 3769320.0,      53.7,       0.0);
    ( 371615.9, 3769320.0,      53.5,       0.0);         ( 371640.9, 3769320.0,      52.9,       0.0);
    ( 371665.9, 3769320.0,      52.7,       0.0);         ( 371690.9, 3769320.0,      52.2,       0.0);
    ( 371715.9, 3769320.0,      52.0,       0.0);         ( 371740.9, 3769320.0,      51.5,       0.0);
    ( 371765.9, 3769320.0,      51.3,       0.0);         ( 371790.9, 3769320.0,      50.8,       0.0);
    ( 371815.9, 3769320.0,      50.6,       0.0);         ( 371840.9, 3769320.0,      50.2,       0.0);
```

```
    ( 371865.9, 3769320.0,      50.0,       0.0);         ( 371890.9, 3769320.0,      49.5,       0.0);
    ( 371915.9, 3769320.0,      49.2,       0.0);         ( 371940.9, 3769320.0,      48.7,       0.0);
    ( 371965.9, 3769320.0,      48.5,       0.0);         ( 371990.9, 3769320.0,      47.9,       0.0);
    ( 372015.9, 3769320.0,      47.6,       0.0);         ( 372040.9, 3769320.0,      47.0,       0.0);
    ( 372065.9, 3769320.0,      46.9,       0.0);         ( 372090.9, 3769320.0,      46.4,       0.0);
    ( 372115.9, 3769320.0,      46.1,       0.0);         ( 372140.9, 3769320.0,      45.7,       0.0);
    ( 372165.9, 3769320.0,      45.5,       0.0);         ( 372190.9, 3769320.0,      45.0,       0.0);
    ( 372215.9, 3769320.0,      44.8,       0.0);         ( 372240.9, 3769320.0,      44.4,       0.0);
    ( 372265.9, 3769320.0,      44.2,       0.0);         ( 372290.9, 3769320.0,      43.7,       0.0);

    ( 372315.9, 3769320.0,      43.6,       0.0);         ( 372340.9, 3769320.0,      43.2,       0.0);
    ( 372365.9, 3769320.0,      43.1,       0.0);         ( 371340.9, 3769345.0,      57.3,       0.0);
    ( 371365.9, 3769345.0,      57.1,       0.0);         ( 371390.9, 3769345.0,      56.6,       0.0);
    ( 371415.9, 3769345.0,      56.3,       0.0);         ( 371440.9, 3769345.0,      56.0,       0.0);
    ( 371465.9, 3769345.0,      55.6,       0.0);         ( 371490.9, 3769345.0,      55.3,       0.0);
    ( 371515.9, 3769345.0,      55.0,       0.0);         ( 371540.9, 3769345.0,      54.5,       0.0);
    ( 371565.9, 3769345.0,      54.2,       0.0);         ( 371590.9, 3769345.0,      53.8,       0.0);
    ( 371615.9, 3769345.0,      53.5,       0.0);         ( 371640.9, 3769345.0,      53.0,       0.0);
    ( 371665.9, 3769345.0,      52.8,       0.0);         ( 371690.9, 3769345.0,      52.3,       0.0);
    ( 371715.9, 3769345.0,      52.0,       0.0);         ( 371740.9, 3769345.0,      51.6,       0.0);
    ( 371765.9, 3769345.0,      51.3,       0.0);         ( 371790.9, 3769345.0,      51.0,       0.0);
    ( 371815.9, 3769345.0,      50.6,       0.0);         ( 371840.9, 3769345.0,      50.2,       0.0);
    ( 371865.9, 3769345.0,      50.0,       0.0);         ( 371890.9, 3769345.0,      49.5,       0.0);
    ( 371915.9, 3769345.0,      49.2,       0.0);         ( 371940.9, 3769345.0,      48.8,       0.0);
    ( 371965.9, 3769345.0,      48.5,       0.0);         ( 371990.9, 3769345.0,      48.0,       0.0);
    ( 372015.9, 3769345.0,      47.7,       0.0);         ( 372040.9, 3769345.0,      47.2,       0.0);
    ( 372065.9, 3769345.0,      47.0,       0.0);         ( 372090.9, 3769345.0,      46.5,       0.0);
    ( 372115.9, 3769345.0,      46.3,       0.0);         ( 372140.9, 3769345.0,      45.8,       0.0);
    ( 372165.9, 3769345.0,      45.6,       0.0);         ( 372190.9, 3769345.0,      45.2,       0.0);
    ( 372215.9, 3769345.0,      45.0,       0.0);         ( 372240.9, 3769345.0,      44.5,       0.0);
    ( 372265.9, 3769345.0,      44.3,       0.0);         ( 372290.9, 3769345.0,      44.0,       0.0);
    ( 372315.9, 3769345.0,      43.7,       0.0);         ( 372340.9, 3769345.0,      43.4,       0.0);
    ( 372365.9, 3769345.0,      43.1,       0.0);         ( 371340.9, 3769370.0,      57.3,       0.0);
    ( 371365.9, 3769370.0,      57.1,       0.0);         ( 371390.9, 3769370.0,      56.5,       0.0);
    ( 371415.9, 3769370.0,      56.4,       0.0);         ( 371440.9, 3769370.0,      55.9,       0.0);
    ( 371465.9, 3769370.0,      55.6,       0.0);         ( 371490.9, 3769370.0,      55.2,       0.0);
    ( 371515.9, 3769370.0,      55.0,       0.0);         ( 371540.9, 3769370.0,      54.5,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05
                                    ***                                                               ***
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 **MODELOPTs:
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CONC URBAN ELEV NOSTD
HE>ZI

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(	371565.9,	3769370.0,	54.2,	0.0);	(371590.9,	3769370.0,	53.7, 0.0);
(	371615.9,	3769370.0,	53.5,	0.0);	(371640.9,	3769370.0,	53.0, 0.0);
(	371665.9,	3769370.0,	52.8,	0.0);	(371690.9,	3769370.0,	52.2, 0.0);
(	371715.9,	3769370.0,	52.1,	0.0);	(371740.9,	3769370.0,	51.5, 0.0);
(	371765.9,	3769370.0,	51.5,	0.0);	(371790.9,	3769370.0,	50.9, 0.0);
(	371815.9,	3769370.0,	50.6,	0.0);	(371840.9,	3769370.0,	50.2, 0.0);
(	371865.9,	3769370.0,	50.0,	0.0);	(371890.9,	3769370.0,	49.5, 0.0);
(	371915.9,	3769370.0,	49.3,	0.0);	(371940.9,	3769370.0,	48.7, 0.0);
(	371965.9,	3769370.0,	48.5,	0.0);	(371990.9,	3769370.0,	48.0, 0.0);
(	372015.9,	3769370.0,	47.7,	0.0);	(372040.9,	3769370.0,	47.2, 0.0);
(	372065.9,	3769370.0,	47.0,	0.0);	(372090.9,	3769370.0,	46.5, 0.0);
(	372115.9,	3769370.0,	46.3,	0.0);	(372140.9,	3769370.0,	45.9, 0.0);
(	372165.9,	3769370.0,	45.6,	0.0);	(372190.9,	3769370.0,	45.2, 0.0);
(	372215.9,	3769370.0,	45.0,	0.0);	(372240.9,	3769370.0,	44.5, 0.0);
(	372265.9,	3769370.0,	44.4,	0.0);	(372290.9,	3769370.0,	43.9, 0.0);
(	372315.9,	3769370.0,	43.8,	0.0);	(372340.9,	3769370.0,	43.4, 0.0);
(	372365.9,	3769370.0,	43.2,	0.0);	(371340.9,	3769395.0,	57.5, 0.0);
(	371365.9,	3769395.0,	57.1,	0.0);	(371390.9,	3769395.0,	56.7, 0.0);
(	371415.9,	3769395.0,	56.5,	0.0);	(371440.9,	3769395.0,	56.0, 0.0);
(	371465.9,	3769395.0,	55.6,	0.0);	(371490.9,	3769395.0,	55.2, 0.0);
(	371515.9,	3769395.0,	54.9,	0.0);	(371540.9,	3769395.0,	54.5, 0.0);
(	371565.9,	3769395.0,	54.2,	0.0);	(371590.9,	3769395.0,	53.8, 0.0);
(	371615.9,	3769395.0,	53.5,	0.0);	(371640.9,	3769395.0,	53.1, 0.0);
(	371665.9,	3769395.0,	52.8,	0.0);	(371690.9,	3769395.0,	52.5, 0.0);
(	371715.9,	3769395.0,	52.2,	0.0);	(371740.9,	3769395.0,	51.7, 0.0);
(	371765.9,	3769395.0,	51.5,	0.0);	(371790.9,	3769395.0,	51.0, 0.0);
(	371815.9,	3769395.0,	50.8,	0.0);	(371840.9,	3769395.0,	50.3, 0.0);
(	371865.9,	3769395.0,	50.0,	0.0);	(371890.9,	3769395.0,	49.6, 0.0);
(	371915.9,	3769395.0,	49.3,	0.0);	(371940.9,	3769395.0,	48.8, 0.0);
(	371965.9,	3769395.0,	48.5,	0.0);	(371990.9,	3769395.0,	48.1, 0.0);
(	372015.9,	3769395.0,	47.8,	0.0);	(372040.9,	3769395.0,	47.3, 0.0);
(	372065.9,	3769395.0,	47.0,	0.0);	(372090.9,	3769395.0,	46.6, 0.0);
(	372115.9,	3769395.0,	46.3,	0.0);	(372140.9,	3769395.0,	46.0, 0.0);
(	372165.9,	3769395.0,	45.6,	0.0);	(372190.9,	3769395.0,	45.3, 0.0);
(	372215.9,	3769395.0,	45.0,	0.0);	(372240.9,	3769395.0,	44.7, 0.0);
(	372265.9,	3769395.0,	44.5,	0.0);	(372290.9,	3769395.0,	44.1, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(	372315.9,	3769395.0,	43.9,	0.0);	(372340.9,	3769395.0,	43.5,	0.0);
(	372365.9,	3769395.0,	43.3,	0.0);	(371340.9,	3769420.0,	57.4,	0.0);
(	371365.9,	3769420.0,	57.1,	0.0);	(371390.9,	3769420.0,	56.7,	0.0);
(	371415.9,	3769420.0,	56.5,	0.0);	(371440.9,	3769420.0,	55.9,	0.0);
(	371465.9,	3769420.0,	55.6,	0.0);	(371490.9,	3769420.0,	55.2,	0.0);
(	371515.9,	3769420.0,	54.9,	0.0);	(371540.9,	3769420.0,	54.4,	0.0);
(	371565.9,	3769420.0,	54.2,	0.0);	(371590.9,	3769420.0,	53.7,	0.0);
(	371615.9,	3769420.0,	53.6,	0.0);	(371640.9,	3769420.0,	53.0,	0.0);
(	371665.9,	3769420.0,	52.9,	0.0);	(371690.9,	3769420.0,	52.5,	0.0);
(	371715.9,	3769420.0,	52.2,	0.0);	(371740.9,	3769420.0,	51.7,	0.0);
(	371765.9,	3769420.0,	51.5,	0.0);	(371790.9,	3769420.0,	51.0,	0.0);
(	371815.9,	3769420.0,	50.8,	0.0);	(371840.9,	3769420.0,	50.2,	0.0);
(	371865.9,	3769420.0,	50.1,	0.0);	(371890.9,	3769420.0,	49.5,	0.0);
(	371915.9,	3769420.0,	49.3,	0.0);	(371940.9,	3769420.0,	48.7,	0.0);
(	371965.9,	3769420.0,	48.5,	0.0);	(371990.9,	3769420.0,	48.0,	0.0);
(	372015.9,	3769420.0,	47.8,	0.0);	(372040.9,	3769420.0,	47.2,	0.0);
(	372065.9,	3769420.0,	47.1,	0.0);	(372090.9,	3769420.0,	46.5,	0.0);
(	372115.9,	3769420.0,	46.4,	0.0);	(372140.9,	3769420.0,	45.9,	0.0);
(	372165.9,	3769420.0,	45.6,	0.0);	(372190.9,	3769420.0,	45.2,	0.0);
(	372215.9,	3769420.0,	45.1,	0.0);	(372240.9,	3769420.0,	44.7,	0.0);
(	372265.9,	3769420.0,	44.5,	0.0);	(372290.9,	3769420.0,	44.0,	0.0);
(	372315.9,	3769420.0,	44.0,	0.0);	(372340.9,	3769420.0,	43.5,	0.0);
(	372365.9,	3769420.0,	43.3,	0.0);	(371340.9,	3769445.0,	57.5,	0.0);
(	371365.9,	3769445.0,	57.2,	0.0);	(371390.9,	3769445.0,	56.8,	0.0);
(	371415.9,	3769445.0,	56.5,	0.0);	(371440.9,	3769445.0,	56.0,	0.0);
(	371465.9,	3769445.0,	55.7,	0.0);	(371490.9,	3769445.0,	55.2,	0.0);
(	371515.9,	3769445.0,	55.0,	0.0);	(371540.9,	3769445.0,	54.5,	0.0);
(	371565.9,	3769445.0,	54.2,	0.0);	(371590.9,	3769445.0,	53.8,	0.0);
(	371615.9,	3769445.0,	53.6,	0.0);	(371640.9,	3769445.0,	53.2,	0.0);
(	371665.9,	3769445.0,	53.0,	0.0);	(371690.9,	3769445.0,	52.6,	0.0);

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    ( 371715.9, 3769445.0,      52.3,       0.0);          ( 371740.9, 3769445.0,      51.9,       0.0);
    ( 371765.9, 3769445.0,      51.6,       0.0);          ( 371790.9, 3769445.0,      51.1,       0.0);
    ( 371815.9, 3769445.0,      50.9,       0.0);          ( 371840.9, 3769445.0,      50.5,       0.0);
    ( 371865.9, 3769445.0,      50.1,       0.0);          ( 371890.9, 3769445.0,      49.6,       0.0);
    ( 371915.9, 3769445.0,      49.3,       0.0);          ( 371940.9, 3769445.0,      48.9,       0.0);
    ( 371965.9, 3769445.0,      48.6,       0.0);          ( 371990.9, 3769445.0,      48.1,       0.0);
    ( 372015.9, 3769445.0,      47.8,       0.0);          ( 372040.9, 3769445.0,      47.5,       0.0);
    ( 372065.9, 3769445.0,      47.1,       0.0);          ( 372090.9, 3769445.0,      46.7,       0.0);
    ( 372115.9, 3769445.0,      46.5,       0.0);          ( 372140.9, 3769445.0,      46.0,       0.0);
    ( 372165.9, 3769445.0,      45.7,       0.0);          ( 372190.9, 3769445.0,      45.4,       0.0);
    ( 372215.9, 3769445.0,      45.1,       0.0);          ( 372240.9, 3769445.0,      44.8,       0.0);
    ( 372265.9, 3769445.0,      44.6,       0.0);          ( 372290.9, 3769445.0,      44.2,       0.0);
    ( 372315.9, 3769445.0,      44.0,       0.0);          ( 372340.9, 3769445.0,      43.6,       0.0);
    ( 372365.9, 3769445.0,      43.5,       0.0);          ( 371340.9, 3769470.0,      57.5,       0.0);
    ( 371365.9, 3769470.0,      57.3,       0.0);          ( 371390.9, 3769470.0,      56.7,       0.0);
    ( 371415.9, 3769470.0,      56.5,       0.0);          ( 371440.9, 3769470.0,      56.0,       0.0);
    ( 371465.9, 3769470.0,      55.8,       0.0);          ( 371490.9, 3769470.0,      55.2,       0.0);
    ( 371515.9, 3769470.0,      55.0,       0.0);          ( 371540.9, 3769470.0,      54.5,       0.0);
    ( 371565.9, 3769470.0,      54.3,       0.0);          ( 371590.9, 3769470.0,      53.9,       0.0);
    ( 371615.9, 3769470.0,      53.6,       0.0);          ( 371640.9, 3769470.0,      53.2,       0.0);
    ( 371665.9, 3769470.0,      53.0,       0.0);          ( 371690.9, 3769470.0,      52.5,       0.0);
    ( 371715.9, 3769470.0,      52.4,       0.0);          ( 371740.9, 3769470.0,      51.9,       0.0);
    ( 371765.9, 3769470.0,      51.6,       0.0);          ( 371790.9, 3769470.0,      51.2,       0.0);
    ( 371815.9, 3769470.0,      51.0,       0.0);          ( 371840.9, 3769470.0,      50.4,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05
                                    ***                                                               ***
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 **MODELOPTs:
PAGE  23
 CONC                    URBAN ELEV                      NOSTD
HE>ZI


                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                    (X-COORD, Y-COORD, ZELEV, ZFLAG)
                                              (METERS)

    ( 371865.9, 3769470.0,      50.1,       0.0);          ( 371890.9, 3769470.0,      49.7,       0.0);
    ( 371915.9, 3769470.0,      49.5,       0.0);          ( 371940.9, 3769470.0,      48.9,       0.0);
    ( 371965.9, 3769470.0,      48.6,       0.0);          ( 371990.9, 3769470.0,      48.2,       0.0);
    ( 372015.9, 3769470.0,      48.0,       0.0);          ( 372040.9, 3769470.0,      47.4,       0.0);
    ( 372065.9, 3769470.0,      47.1,       0.0);          ( 372090.9, 3769470.0,      46.7,       0.0);
    ( 372115.9, 3769470.0,      46.5,       0.0);          ( 372140.9, 3769470.0,      46.0,       0.0);
```

```
    ( 372165.9, 3769470.0,      45.8,       0.0);         ( 372190.9, 3769470.0,      45.4,       0.0);
    ( 372215.9, 3769470.0,      45.2,       0.0);         ( 372240.9, 3769470.0,      44.8,       0.0);
    ( 372265.9, 3769470.0,      44.6,       0.0);         ( 372290.9, 3769470.0,      44.2,       0.0);
    ( 372315.9, 3769470.0,      44.1,       0.0);         ( 372340.9, 3769470.0,      43.7,       0.0);
    ( 372365.9, 3769470.0,      43.5,       0.0);         ( 371340.9, 3769495.0,      57.6,       0.0);
    ( 371365.9, 3769495.0,      57.3,       0.0);         ( 371390.9, 3769495.0,      57.0,       0.0);
    ( 371415.9, 3769495.0,      56.6,       0.0);         ( 371440.9, 3769495.0,      56.1,       0.0);
    ( 371465.9, 3769495.0,      55.8,       0.0);         ( 371490.9, 3769495.0,      55.4,       0.0);
    ( 371515.9, 3769495.0,      55.1,       0.0);         ( 371540.9, 3769495.0,      54.6,       0.0);
    ( 371565.9, 3769495.0,      54.4,       0.0);         ( 371590.9, 3769495.0,      54.0,       0.0);
    ( 371615.9, 3769495.0,      53.8,       0.0);         ( 371640.9, 3769495.0,      53.4,       0.0);
    ( 371665.9, 3769495.0,      53.2,       0.0);         ( 371690.9, 3769495.0,      52.8,       0.0);
    ( 371715.9, 3769495.0,      52.5,       0.0);         ( 371740.9, 3769495.0,      52.1,       0.0);
    ( 371765.9, 3769495.0,      51.8,       0.0);         ( 371790.9, 3769495.0,      51.3,       0.0);
    ( 371815.9, 3769495.0,      51.0,       0.0);         ( 371840.9, 3769495.0,      50.6,       0.0);
    ( 371865.9, 3769495.0,      50.3,       0.0);         ( 371890.9, 3769495.0,      49.8,       0.0);
    ( 371915.9, 3769495.0,      49.5,       0.0);         ( 371940.9, 3769495.0,      49.1,       0.0);
    ( 371965.9, 3769495.0,      48.8,       0.0);         ( 371990.9, 3769495.0,      48.3,       0.0);
    ( 372015.9, 3769495.0,      48.0,       0.0);         ( 372040.9, 3769495.0,      47.6,       0.0);
    ( 372065.9, 3769495.0,      47.3,       0.0);         ( 372090.9, 3769495.0,      46.8,       0.0);
    ( 372115.9, 3769495.0,      46.5,       0.0);         ( 372140.9, 3769495.0,      46.1,       0.0);
    ( 372165.9, 3769495.0,      45.9,       0.0);         ( 372190.9, 3769495.0,      45.5,       0.0);
    ( 372215.9, 3769495.0,      45.3,       0.0);         ( 372240.9, 3769495.0,      45.0,       0.0);
    ( 372265.9, 3769495.0,      44.7,       0.0);         ( 372290.9, 3769495.0,      44.5,       0.0);
    ( 372315.9, 3769495.0,      44.2,       0.0);         ( 372340.9, 3769495.0,      43.8,       0.0);
    ( 372365.9, 3769495.0,      43.7,       0.0);         ( 371340.9, 3769520.0,      57.5,       0.0);
    ( 371365.9, 3769520.0,      57.4,       0.0);         ( 371390.9, 3769520.0,      56.9,       0.0);
    ( 371415.9, 3769520.0,      56.6,       0.0);         ( 371440.9, 3769520.0,      56.2,       0.0);
    ( 371465.9, 3769520.0,      56.0,       0.0);         ( 371490.9, 3769520.0,      55.4,       0.0);
    ( 371515.9, 3769520.0,      55.1,       0.0);         ( 371540.9, 3769520.0,      54.7,       0.0);
    ( 371565.9, 3769520.0,      54.5,       0.0);         ( 371590.9, 3769520.0,      54.0,       0.0);
    ( 371615.9, 3769520.0,      54.0,       0.0);         ( 371640.9, 3769520.0,      53.5,       0.0);
    ( 371665.9, 3769520.0,      53.3,       0.0);         ( 371690.9, 3769520.0,      52.7,       0.0);
    ( 371715.9, 3769520.0,      52.6,       0.0);         ( 371740.9, 3769520.0,      52.0,       0.0);
    ( 371765.9, 3769520.0,      51.8,       0.0);         ( 371790.9, 3769520.0,      51.3,       0.0);
    ( 371815.9, 3769520.0,      51.1,       0.0);         ( 371840.9, 3769520.0,      50.5,       0.0);
    ( 371865.9, 3769520.0,      50.3,       0.0);         ( 371890.9, 3769520.0,      49.8,       0.0);
    ( 371915.9, 3769520.0,      49.6,       0.0);         ( 371940.9, 3769520.0,      49.0,       0.0);
    ( 371965.9, 3769520.0,      48.8,       0.0);         ( 371990.9, 3769520.0,      48.3,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05                            ***                                                               ***
13:26:49
```

CONC URBAN ELEV NOSTD
HE>ZI

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(372015.9,	3769520.0,	48.1,	0.0);	(372040.9,	3769520.0,	47.5,	0.0);
(372065.9,	3769520.0,	47.3,	0.0);	(372090.9,	3769520.0,	46.9,	0.0);
(372115.9,	3769520.0,	46.6,	0.0);	(372140.9,	3769520.0,	46.2,	0.0);
(372165.9,	3769520.0,	46.0,	0.0);	(372190.9,	3769520.0,	45.5,	0.0);
(372215.9,	3769520.0,	45.3,	0.0);	(372240.9,	3769520.0,	45.0,	0.0);
(372265.9,	3769520.0,	44.8,	0.0);	(372290.9,	3769520.0,	44.4,	0.0);
(372315.9,	3769520.0,	44.3,	0.0);	(372340.9,	3769520.0,	43.9,	0.0);
(372365.9,	3769520.0,	43.8,	0.0);	(371340.9,	3769545.0,	57.8,	0.0);
(371365.9,	3769545.0,	57.5,	0.0);	(371390.9,	3769545.0,	57.1,	0.0);
(371415.9,	3769545.0,	56.8,	0.0);	(371440.9,	3769545.0,	56.3,	0.0);
(371465.9,	3769545.0,	56.0,	0.0);	(371490.9,	3769545.0,	55.6,	0.0);
(371515.9,	3769545.0,	55.3,	0.0);	(371540.9,	3769545.0,	54.9,	0.0);
(371565.9,	3769545.0,	54.8,	0.0);	(371590.9,	3769545.0,	54.3,	0.0);
(371615.9,	3769545.0,	54.0,	0.0);	(371640.9,	3769545.0,	53.6,	0.0);
(371665.9,	3769545.0,	53.4,	0.0);	(371690.9,	3769545.0,	53.0,	0.0);
(371715.9,	3769545.0,	52.7,	0.0);	(371740.9,	3769545.0,	52.2,	0.0);
(371765.9,	3769545.0,	52.0,	0.0);	(371790.9,	3769545.0,	51.5,	0.0);
(371815.9,	3769545.0,	51.2,	0.0);	(371840.9,	3769545.0,	50.7,	0.0);
(371865.9,	3769545.0,	50.5,	0.0);	(371890.9,	3769545.0,	50.0,	0.0);
(371915.9,	3769545.0,	49.7,	0.0);	(371940.9,	3769545.0,	49.2,	0.0);
(371965.9,	3769545.0,	49.0,	0.0);	(371990.9,	3769545.0,	48.5,	0.0);
(372015.9,	3769545.0,	48.2,	0.0);	(372040.9,	3769545.0,	47.7,	0.0);
(372065.9,	3769545.0,	47.5,	0.0);	(372090.9,	3769545.0,	47.0,	0.0);
(372115.9,	3769545.0,	46.7,	0.0);	(372140.9,	3769545.0,	46.3,	0.0);
(372165.9,	3769545.0,	46.0,	0.0);	(372190.9,	3769545.0,	45.6,	0.0);
(372215.9,	3769545.0,	45.5,	0.0);	(372240.9,	3769545.0,	45.1,	0.0);
(372265.9,	3769545.0,	45.0,	0.0);	(372290.9,	3769545.0,	44.6,	0.0);
(372315.9,	3769545.0,	44.4,	0.0);	(372340.9,	3769545.0,	44.0,	0.0);
(372365.9,	3769545.0,	43.9,	0.0);	(371340.9,	3769570.0,	57.9,	0.0);
(371365.9,	3769570.0,	57.6,	0.0);	(371390.9,	3769570.0,	57.2,	0.0);
(371415.9,	3769570.0,	57.0,	0.0);	(371440.9,	3769570.0,	56.5,	0.0);
(371465.9,	3769570.0,	56.3,	0.0);	(371490.9,	3769570.0,	55.7,	0.0);
(371515.9,	3769570.0,	55.5,	0.0);	(371540.9,	3769570.0,	55.0,	0.0);
(371565.9,	3769570.0,	54.9,	0.0);	(371590.9,	3769570.0,	54.4,	0.0);

(371615.9, 3769570.0, 54.1, 0.0); (371640.9, 3769570.0, 53.7, 0.0);
(371665.9, 3769570.0, 53.5, 0.0); (371690.9, 3769570.0, 53.0, 0.0);
(371715.9, 3769570.0, 52.8, 0.0); (371740.9, 3769570.0, 52.2, 0.0);
(371765.9, 3769570.0, 52.1, 0.0); (371790.9, 3769570.0, 51.5, 0.0);
(371815.9, 3769570.0, 51.3, 0.0); (371840.9, 3769570.0, 50.7, 0.0);
(371865.9, 3769570.0, 50.6, 0.0); (371890.9, 3769570.0, 50.0, 0.0);
(371915.9, 3769570.0, 49.8, 0.0); (371940.9, 3769570.0, 49.2, 0.0);
(371965.9, 3769570.0, 49.0, 0.0); (371990.9, 3769570.0, 48.5, 0.0);
(372015.9, 3769570.0, 48.3, 0.0); (372040.9, 3769570.0, 47.7, 0.0);
(372065.9, 3769570.0, 47.5, 0.0); (372090.9, 3769570.0, 47.0, 0.0);
(372115.9, 3769570.0, 46.8, 0.0); (372140.9, 3769570.0, 46.2, 0.0);

**MODELOPTs:

CONC URBAN ELEV NOSTD HE>ZI

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(372165.9, 3769570.0, 46.1, 0.0); (372190.9, 3769570.0, 45.5, 0.0);
(372215.9, 3769570.0, 45.5, 0.0); (372240.9, 3769570.0, 45.0, 0.0);
(372265.9, 3769570.0, 45.0, 0.0); (372290.9, 3769570.0, 44.5, 0.0);
(372315.9, 3769570.0, 44.5, 0.0); (372340.9, 3769570.0, 44.0, 0.0);
(372365.9, 3769570.0, 44.0, 0.0); (371340.9, 3769595.0, 58.1, 0.0);
(371365.9, 3769595.0, 57.8, 0.0); (371390.9, 3769595.0, 57.4, 0.0);
(371415.9, 3769595.0, 57.1, 0.0); (371440.9, 3769595.0, 56.6, 0.0);
(371465.9, 3769595.0, 56.5, 0.0); (371490.9, 3769595.0, 56.0, 0.0);
(371515.9, 3769595.0, 55.8, 0.0); (371540.9, 3769595.0, 55.3, 0.0);
(371565.9, 3769595.0, 55.1, 0.0); (371590.9, 3769595.0, 54.6, 0.0);
(371615.9, 3769595.0, 54.4, 0.0); (371640.9, 3769595.0, 54.0, 0.0);
(371665.9, 3769595.0, 53.6, 0.0); (371690.9, 3769595.0, 53.1, 0.0);
(371715.9, 3769595.0, 53.0, 0.0); (371740.9, 3769595.0, 52.5, 0.0);
(371765.9, 3769595.0, 52.2, 0.0); (371790.9, 3769595.0, 51.7, 0.0);
(371815.9, 3769595.0, 51.5, 0.0); (371840.9, 3769595.0, 51.0, 0.0);
(371865.9, 3769595.0, 50.6, 0.0); (371890.9, 3769595.0, 50.1, 0.0);
(371915.9, 3769595.0, 49.9, 0.0); (371940.9, 3769595.0, 49.5, 0.0);
(371965.9, 3769595.0, 49.1, 0.0); (371990.9, 3769595.0, 48.6, 0.0);
(372015.9, 3769595.0, 48.3, 0.0); (372040.9, 3769595.0, 48.0, 0.0);

```
    ( 372065.9, 3769595.0,      47.6,       0.0);          ( 372090.9, 3769595.0,      47.1,       0.0);
    ( 372115.9, 3769595.0,      46.9,       0.0);          ( 372140.9, 3769595.0,      46.5,       0.0);
    ( 372165.9, 3769595.0,      46.2,       0.0);          ( 372190.9, 3769595.0,      45.7,       0.0);
    ( 372215.9, 3769595.0,      45.5,       0.0);          ( 372240.9, 3769595.0,      45.3,       0.0);
    ( 372265.9, 3769595.0,      45.1,       0.0);          ( 372290.9, 3769595.0,      44.8,       0.0);
    ( 372315.9, 3769595.0,      44.6,       0.0);          ( 372340.9, 3769595.0,      44.3,       0.0);
    ( 372365.9, 3769595.0,      44.1,       0.0);          ( 372390.9, 3769170.0,      42.0,       0.0);
    ( 372415.9, 3769170.0,      41.8,       0.0);          ( 372390.9, 3769195.0,      42.2,       0.0);
    ( 372415.9, 3769195.0,      42.0,       0.0);          ( 372324.6, 3768512.5,      39.9,       0.0);
    ( 372240.6, 3768308.5,      39.1,       0.0);          ( 373073.1, 3769250.0,      38.1,       0.0);
    ( 370888.2, 3768917.0,      72.3,       0.0);          ( 373073.8, 3769299.8,      38.3,       0.0);
    ( 373076.3, 3768939.2,      36.7,       0.0);          ( 372601.4, 3768361.2,      34.0,       0.0);
    ( 372301.8, 3768327.5,      38.3,       0.0);          ( 371747.2, 3768345.0,      49.2,       0.0);
    ( 372389.2, 3769329.0,      43.0,       0.0);          ( 371296.7, 3768889.2,      58.9,       0.0);
    ( 372960.0, 3768868.8,      36.7,       0.0);          ( 371735.9, 3768977.8,      51.1,       0.0);
    ( 371738.7, 3768975.0,      51.1,       0.0);          ( 371763.7, 3768974.5,      50.7,       0.0);
    ( 371788.6, 3768974.2,      50.5,       0.0);          ( 371791.5, 3768974.0,      50.3,       0.0);

    ( 371794.1, 3768976.8,      50.3,       0.0);          ( 371794.5, 3769001.8,      50.2,       0.0);
    ( 371794.6, 3769008.0,      50.2,       0.0);          ( 371769.6, 3769008.5,      50.7,       0.0);
    ( 371744.6, 3769009.0,      51.0,       0.0);          ( 371736.5, 3769009.0,      51.1,       0.0);
    ( 371736.0, 3768984.0,      51.1,       0.0);          ( 371735.9, 3768977.8,      51.1,       0.0);
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                          ***
07/07/05
                                    ***                                                               ***
13:26:49
 **MODELOPTs:
PAGE  26
 CONC                    URBAN ELEV                        NOSTD
HE>ZI

                    * SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
                         LESS THAN 1.0 METER OR 3*ZLB IN DISTANCE, OR WITHIN OPEN PIT SOURCE

                          SOURCE         - - RECEPTOR LOCATION - -         DISTANCE
                            ID           XR (METERS)   YR (METERS)         (METERS)
                        - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

                          SRC4              371740.9     3768970.0            25.22
                          SRC4              371765.9     3768970.0            21.84
                          SRC4              371790.9     3768970.0            39.59
                          SRC4              371740.9     3769020.0            34.08
                          SRC4              371765.9     3769020.0            31.65
```

SRC4	371735.9	3768977.8	23.92
SRC4	371738.7	3768975.0	23.22
SRC4	371763.7	3768974.5	16.81
SRC4	371788.6	3768974.2	35.58
SRC4	371769.6	3769008.5	22.83
SRC4	371744.6	3769009.0	22.67
SRC4	371736.5	3769009.0	27.85
SRC4	371736.0	3768984.0	21.35
SRC4	371735.9	3768977.8	23.92
SRC3	371715.9	3768970.0	37.66
SRC3	371740.9	3768970.0	21.16
SRC3	371765.9	3768970.0	26.97
SRC3	371715.9	3768995.0	32.30
SRC3	371740.9	3769020.0	30.78
SRC3	371765.9	3769020.0	35.03
SRC3	371735.9	3768977.8	17.08
SRC3	371738.7	3768975.0	17.57
SRC3	371763.7	3768974.5	22.16
SRC3	371769.6	3769008.5	28.60
SRC3	371744.6	3769009.0	19.27
SRC3	371736.5	3769009.0	22.13
SRC3	371736.0	3768984.0	13.22
SRC3	371735.9	3768977.8	17.08
SRC5	371740.9	3768970.0	35.44
SRC5	371765.9	3768970.0	20.03
SRC5	371790.9	3768970.0	28.23
SRC5	371740.9	3769020.0	42.50
SRC5	371765.9	3769020.0	30.84
SRC5	371790.9	3769020.0	36.70
SRC5	371735.9	3768977.8	36.53
SRC5	371738.7	3768975.0	34.99
SRC5	371763.7	3768974.5	16.49
SRC5	371788.6	3768974.2	23.69
SRC5	371791.5	3768974.0	26.08
SRC5	371794.1	3768976.8	26.82

**MODELOPTs:

CONC URBAN ELEV NOSTD HE>ZI

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER OR 3*ZLB IN DISTANCE, OR WITHIN OPEN PIT SOURCE

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
SRC5	371794.5	3769001.8	26.97
SRC5	371794.6	3769008.0	30.40
SRC5	371769.6	3769008.5	19.02
SRC5	371744.6	3769009.0	32.40
SRC5	371736.5	3769009.0	39.22
SRC5	371736.0	3768984.0	34.90
SRC5	371735.9	3768977.8	36.53
SRC6	371765.9	3768970.0	23.54
SRC6	371790.9	3768970.0	22.80
SRC6	371765.9	3769020.0	33.23
SRC6	371790.9	3769020.0	32.71
SRC6	371763.7	3768974.5	21.52
SRC6	371788.6	3768974.2	17.98
SRC6	371791.5	3768974.0	19.83
SRC6	371794.1	3768976.8	19.69
SRC6	371794.5	3769001.8	19.71
SRC6	371794.6	3769008.0	24.16
SRC6	371769.6	3769008.5	21.23
SRC6	371744.6	3769009.0	39.60
SRC7	371765.9	3768945.0	37.98
SRC7	371740.9	3768970.0	18.51
SRC7	371765.9	3768970.0	15.57
SRC7	371790.9	3768970.0	37.32
SRC7	371735.9	3768977.8	19.86
SRC7	371738.7	3768975.0	17.97
SRC7	371763.7	3768974.5	10.82
SRC7	371788.6	3768974.2	34.00
SRC7	371769.6	3769008.5	30.52
SRC7	371744.6	3769009.0	29.54
SRC7	371736.5	3769009.0	33.39
SRC7	371736.0	3768984.0	19.54
SRC7	371735.9	3768977.8	19.86
SRC8	371765.9	3768945.0	38.16
SRC8	371790.9	3768945.0	38.54
SRC8	371740.9	3768970.0	38.58
SRC8	371765.9	3768970.0	16.38

SRC8	371790.9	3768970.0	17.26
SRC8	371790.9	3769020.0	40.90
SRC8	371763.7	3768974.5	15.68
SRC8	371788.6	3768974.2	12.88

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER OR 3*ZLB IN DISTANCE, OR WITHIN OPEN PIT SOURCE

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
SRC8	371791.5	3768974.0	15.46
SRC8	371794.1	3768976.8	16.89
SRC8	371794.5	3769001.8	26.45
SRC8	371794.6	3769008.0	31.59
SRC8	371769.6	3769008.5	28.45

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

1 1 1

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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

METEOROLOGICAL DATA PROCESSED BETWEEN START DATE: 1981 1 1 1
AND END DATE: 1981 12 31 24

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

STABILITY	WIND SPEED CATEGORY					
CATEGORY	1	2	3	4	5	6
A	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
B	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
C	.20000E+00	.20000E+00	.20000E+00	.20000E+00	.20000E+00	.20000E+00
D	.25000E+00	.25000E+00	.25000E+00	.25000E+00	.25000E+00	.25000E+00
E	.30000E+00	.30000E+00	.30000E+00	.30000E+00	.30000E+00	.30000E+00
F	.30000E+00	.30000E+00	.30000E+00	.30000E+00	.30000E+00	.30000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY	WIND SPEED CATEGORY					
CATEGORY	1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

CONC URBAN ELEV NOSTD
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*** THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

FILE: I:\Project\9000s\9195\Air Modeling\WESTLA.ASC
FORMAT: (4I2,2F9.4,F6.1,I2,2F7.1,f9.4,f10.1,f8.4,i4,f7.2)
SURFACE STATION NO.: 52158 UPPER AIR STATION NO.: 91919
NAME: UNKNOWN NAME: UNKNOWN
YEAR: 1981 YEAR: 1981

YR	MN	DY	HR	FLOW VECTOR	SPEED (M/S)	TEMP (K)	STAB CLASS	MIXING HEIGHT (M) RURAL	MIXING HEIGHT (M) URBAN	USTAR (M/S)	M-O LENGTH (M)	Z-0 (M)	IPCODE	PRATE (mm/HR)
81	01	01	01	67.3	1.00	285.9	7	387.1	152.0	0.0000	0.0	0.0000	0	0.00
81	01	01	02	79.9	1.00	286.5	7	397.2	152.0	0.0000	0.0	0.0000	0	0.00
81	01	01	03	62.5	1.00	285.9	6	407.3	152.0	0.0000	0.0	0.0000	0	0.00
81	01	01	04	98.5	1.00	285.9	5	417.4	152.0	0.0000	0.0	0.0000	0	0.00
81	01	01	05	354.0	1.00	285.4	4	427.4	427.4	0.0000	0.0	0.0000	0	0.00
81	01	01	06	139.5	1.00	283.7	5	437.5	152.0	0.0000	0.0	0.0000	0	0.00
81	01	01	07	94.5	1.00	283.7	6	447.5	152.0	0.0000	0.0	0.0000	0	0.00
81	01	01	08	112.2	1.00	284.3	5	70.1	201.5	0.0000	0.0	0.0000	0	0.00
81	01	01	09	186.5	1.00	287.0	4	144.7	254.3	0.0000	0.0	0.0000	0	0.00
81	01	01	10	256.6	1.00	291.5	3	219.4	307.0	0.0000	0.0	0.0000	0	0.00
81	01	01	11	314.1	1.00	294.8	2	294.0	359.8	0.0000	0.0	0.0000	0	0.00
81	01	01	12	35.6	2.68	290.9	3	368.7	412.5	0.0000	0.0	0.0000	0	0.00
81	01	01	13	64.7	2.24	289.8	3	443.3	465.3	0.0000	0.0	0.0000	0	0.00
81	01	01	14	34.2	2.24	290.4	3	518.0	518.0	0.0000	0.0	0.0000	0	0.00
81	01	01	15	44.8	1.34	290.4	2	518.0	518.0	0.0000	0.0	0.0000	0	0.00
81	01	01	16	53.2	1.79	289.3	3	518.0	518.0	0.0000	0.0	0.0000	0	0.00
81	01	01	17	42.6	0.00	288.1	4	518.0	518.0	0.0000	0.0	0.0000	0	0.00
81	01	01	18	30.1	1.00	287.6	5	518.0	468.5	0.0000	0.0	0.0000	0	0.00
81	01	01	19	20.5	0.00	287.0	6	518.0	425.9	0.0000	0.0	0.0000	0	0.00
81	01	01	20	55.7	1.00	287.0	7	518.0	383.4	0.0000	0.0	0.0000	0	0.00
81	01	01	21	43.6	0.00	287.6	7	518.0	340.8	0.0000	0.0	0.0000	0	0.00

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 81 01 01 22  137.0   1.00  287.0   7     518.0   298.2    0.0000       0.0  0.0000   0   0.00
 81 01 01 23   90.7   1.00  286.5   7     518.0   255.6    0.0000       0.0  0.0000   0   0.00
 81 01 01 24   67.2   1.00  286.5   6     518.0   213.0    0.0000       0.0  0.0000   0   0.00


 *** NOTES:  STABILITY CLASS 1=A, 2=B, 3=C, 4=D, 5=E AND 6=F.
             FLOW VECTOR IS DIRECTION TOWARD WHICH WIND IS BLOWING.
1 *** ISCST3 - VERSION 02035 ***    ***  BreitBurn Drill Site                                    ***
07/07/05
                                    ***                                                         ***
13:26:49
 **MODELOPTs:
PAGE  31
 CONC                    URBAN ELEV                        NOSTD
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                          *** THE ANNUAL (   1 YRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                              INCLUDING SOURCE(S):      SRC4    , SRC3    , SRC5    , SRC6    , SRC7    , SRC8    ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)   Y-COORD (M)        CONC
 - - -
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372090.91	3768570.00	18.67752	372115.91	3768570.00	19.27715
372140.91	3768570.00	19.39423	372165.91	3768570.00	19.13923
372190.91	3768570.00	18.44415	372215.91	3768570.00	17.56170
372240.91	3768570.00	16.48386	372265.91	3768570.00	15.40858
372290.91	3768570.00	14.32902	372315.91	3768570.00	13.37905
372340.91	3768570.00	12.48957	372365.91	3768570.00	11.73971
371340.91	3768595.00	4.93400	371365.91	3768595.00	5.01686
371390.91	3768595.00	4.18602	371415.91	3768595.00	4.27462
371440.91	3768595.00	4.31971	371465.91	3768595.00	4.30523
371490.91	3768595.00	4.20620	371515.91	3768595.00	4.00612
371540.91	3768595.00	3.69910	371565.91	3768595.00	3.33609
371590.91	3768595.00	3.04970	371615.91	3768595.00	3.09189
371640.91	3768595.00	3.76118	371665.91	3768595.00	5.21976
371690.91	3768595.00	7.23936	371715.91	3768595.00	9.39054
371740.91	3768595.00	11.19099	371765.91	3768595.00	12.49679
371790.91	3768595.00	13.27488	371815.91	3768595.00	13.71512
371840.91	3768595.00	14.06872	371865.91	3768595.00	14.58920
371890.91	3768595.00	15.15360	371915.91	3768595.00	15.64425
371940.91	3768595.00	15.95507	371965.91	3768595.00	16.41013
371990.91	3768595.00	17.08921	372015.91	3768595.00	18.15507
372040.91	3768595.00	19.32413	372065.91	3768595.00	20.48609
372090.91	3768595.00	21.23015	372115.91	3768595.00	21.50851
372140.91	3768595.00	21.17739	372165.91	3768595.00	20.43766
372190.91	3768595.00	19.32555	372215.91	3768595.00	18.08874
372240.91	3768595.00	16.78828	372265.91	3768595.00	15.59229

CONC URBAN ELEV NOSTD HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC

372290.91	3768595.00	14.45433	372315.91	3768595.00	13.49154
372340.91	3768595.00	12.62853	372365.91	3768595.00	11.90049
371340.91	3768620.00	5.40270	371365.91	3768620.00	5.60825
371390.91	3768620.00	4.57009	371415.91	3768620.00	4.68767
371440.91	3768620.00	4.77738	371465.91	3768620.00	4.82415
371490.91	3768620.00	4.77937	371515.91	3768620.00	4.62825
371540.91	3768620.00	4.34301	371565.91	3768620.00	3.94872
371590.91	3768620.00	3.55016	371615.91	3768620.00	3.40824
371640.91	3768620.00	3.89877	371665.91	3768620.00	5.33945
371690.91	3768620.00	7.60491	371715.91	3768620.00	10.14162
371740.91	3768620.00	12.31340	371765.91	3768620.00	13.89928
371790.91	3768620.00	14.80386	371815.91	3768620.00	15.31242
371840.91	3768620.00	15.75555	371865.91	3768620.00	16.40024
371890.91	3768620.00	17.07320	371915.91	3768620.00	17.59942
371940.91	3768620.00	17.98409	371965.91	3768620.00	18.70373
371990.91	3768620.00	19.72616	372015.91	3768620.00	21.14030
372040.91	3768620.00	22.47702	372065.91	3768620.00	23.56441
372090.91	3768620.00	23.91216	372115.91	3768620.00	23.61634
372140.91	3768620.00	22.68470	372165.91	3768620.00	21.42437
372190.91	3768620.00	19.87782	372215.91	3768620.00	18.42009
372240.91	3768620.00	16.97886	372265.91	3768620.00	15.73551
372290.91	3768620.00	14.59782	372315.91	3768620.00	13.67048
372340.91	3768620.00	12.83089	372365.91	3768620.00	12.12588
371340.91	3768645.00	6.04377	371365.91	3768645.00	6.16795
371390.91	3768645.00	5.04020	371415.91	3768645.00	5.15747
371440.91	3768645.00	5.28298	371465.91	3768645.00	5.39123
371490.91	3768645.00	5.42195	371515.91	3768645.00	5.33898
371540.91	3768645.00	5.10163	371565.91	3768645.00	4.70987
371590.91	3768645.00	4.22412	371615.91	3768645.00	3.88393
371640.91	3768645.00	4.13101	371665.91	3768645.00	5.47951
371690.91	3768645.00	7.97228	371715.91	3768645.00	10.98599
371740.91	3768645.00	13.64679	371765.91	3768645.00	15.56357
371790.91	3768645.00	16.63428	371815.91	3768645.00	17.22589
371840.91	3768645.00	17.79002	371865.91	3768645.00	18.61460
371890.91	3768645.00	19.38429	371915.91	3768645.00	19.98663
371940.91	3768645.00	20.62623	371965.91	3768645.00	21.74981
371990.91	3768645.00	23.23694	372015.91	3768645.00	24.95412
372040.91	3768645.00	26.29762	372065.91	3768645.00	26.87866
372090.91	3768645.00	26.50261	372115.91	3768645.00	25.47030
372140.91	3768645.00	23.87339	372165.91	3768645.00	22.07993

CONC URBAN ELEV NOSTD
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*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372190.91	3768645.00	20.26703	372215.91	3768645.00	18.64050
372240.91	3768645.00	17.16551	372265.91	3768645.00	15.94701
372290.91	3768645.00	14.85260	372315.91	3768645.00	13.93858
372340.91	3768645.00	13.12505	372365.91	3768645.00	12.42573
371340.91	3768670.00	7.11708	371365.91	3768670.00	6.99199
371390.91	3768670.00	5.65753	371415.91	3768670.00	5.74035
371440.91	3768670.00	5.86653	371465.91	3768670.00	6.02662
371490.91	3768670.00	6.13329	371515.91	3768670.00	6.14654
371540.91	3768670.00	5.98582	371565.91	3768670.00	5.63593
371590.91	3768670.00	5.10276	371615.91	3768670.00	4.57116
371640.91	3768670.00	4.52164	371665.91	3768670.00	5.66787
371690.91	3768670.00	8.33975	371715.91	3768670.00	11.91129
371740.91	3768670.00	15.18645	371765.91	3768670.00	17.55781
371790.91	3768670.00	18.80983	371815.91	3768670.00	19.54875
371840.91	3768670.00	20.28077	371865.91	3768670.00	21.34541
371890.91	3768670.00	22.17857	371915.91	3768670.00	22.99606
371940.91	3768670.00	24.00881	371965.91	3768670.00	25.75993
371990.91	3768670.00	27.69434	372015.91	3768670.00	29.50137
372040.91	3768670.00	30.28942	372065.91	3768670.00	30.06001
372090.91	3768670.00	28.70300	372115.91	3768670.00	26.81013
372140.91	3768670.00	24.56529	372165.91	3768670.00	22.47299
372190.91	3768670.00	20.47805	372215.91	3768670.00	18.87797
372240.91	3768670.00	17.43254	372265.91	3768670.00	16.25560
372290.91	3768670.00	15.17565	372315.91	3768670.00	14.30279
372340.91	3768670.00	13.46700	372365.91	3768670.00	12.75023
371340.91	3768695.00	8.31518	371365.91	3768695.00	8.21405
371390.91	3768695.00	6.51457	371415.91	3768695.00	6.52646
371440.91	3768695.00	6.61007	371465.91	3768695.00	6.76757
371490.91	3768695.00	6.94394	371515.91	3768695.00	7.06018

371540.91	3768695.00	7.01225	371565.91	3768695.00	6.74723
371590.91	3768695.00	6.21640	371615.91	3768695.00	5.55015
371640.91	3768695.00	5.15789	371665.91	3768695.00	5.95644
371690.91	3768695.00	8.69915	371715.91	3768695.00	12.90333
371740.91	3768695.00	17.02197	371765.91	3768695.00	19.99084
371790.91	3768695.00	21.53257	371815.91	3768695.00	22.39749
371840.91	3768695.00	23.41398	371865.91	3768695.00	24.75089
371890.91	3768695.00	25.78363	371915.91	3768695.00	26.91955
371940.91	3768695.00	28.60040	371965.91	3768695.00	31.08957
371990.91	3768695.00	33.32111	372015.91	3768695.00	34.64789
372040.91	3768695.00	34.35229	372065.91	3768695.00	32.83650

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372090.91	3768695.00	30.34460	372115.91	3768695.00	27.68658
372140.91	3768695.00	25.03845	372165.91	3768695.00	22.77971
372190.91	3768695.00	20.83170	372215.91	3768695.00	19.24580
372240.91	3768695.00	17.86381	372265.91	3768695.00	16.69210
372290.91	3768695.00	15.62687	372315.91	3768695.00	14.70262
372340.91	3768695.00	13.83753	372365.91	3768695.00	13.06089
371340.91	3768720.00	9.59201	371365.91	3768720.00	7.77141
371390.91	3768720.00	7.69504	371415.91	3768720.00	7.63601
371440.91	3768720.00	7.62186	371465.91	3768720.00	7.71418
371490.91	3768720.00	7.89021	371515.91	3768720.00	8.10338
371540.91	3768720.00	8.19116	371565.91	3768720.00	8.06526
371590.91	3768720.00	7.60633	371615.91	3768720.00	6.87774
371640.91	3768720.00	6.15767	371665.91	3768720.00	6.45117
371690.91	3768720.00	9.07185	371715.91	3768720.00	14.01413

371740.91	3768720.00	19.17307	371765.91	3768720.00	22.97534
371790.91	3768720.00	24.87103	371815.91	3768720.00	25.99976
371840.91	3768720.00	27.41494	371865.91	3768720.00	29.06697
371890.91	3768720.00	30.32328	371915.91	3768720.00	32.17479
371940.91	3768720.00	34.84113	371965.91	3768720.00	38.03185
371990.91	3768720.00	39.79452	372015.91	3768720.00	39.76727
372040.91	3768720.00	37.77121	372065.91	3768720.00	34.73307
372090.91	3768720.00	31.29870	372115.91	3768720.00	28.15399
372140.91	3768720.00	25.39500	372165.91	3768720.00	23.16344
372190.91	3768720.00	21.25872	372215.91	3768720.00	19.75799
372240.91	3768720.00	18.35724	372265.91	3768720.00	17.18253
372290.91	3768720.00	16.04242	372315.91	3768720.00	15.09219
372340.91	3768720.00	14.15751	372365.91	3768720.00	13.34790
371340.91	3768745.00	11.07710	371365.91	3768745.00	9.26231
371390.91	3768745.00	9.24566	371415.91	3768745.00	9.17781
371440.91	3768745.00	9.08772	371465.91	3768745.00	9.05603
371490.91	3768745.00	9.13785	371515.91	3768745.00	9.35120
371540.91	3768745.00	9.57363	371565.91	3768745.00	9.63450
371590.91	3768745.00	9.34455	371615.91	3768745.00	8.63225
371640.91	3768745.00	7.65117	371665.91	3768745.00	7.33480
371690.91	3768745.00	9.53680	371715.91	3768745.00	15.19156
371740.91	3768745.00	21.86376	371765.91	3768745.00	26.75894
371790.91	3768745.00	29.12070	371815.91	3768745.00	30.57449
371840.91	3768745.00	32.64898	371865.91	3768745.00	34.66967
371890.91	3768745.00	36.49765	371915.91	3768745.00	39.63046
371940.91	3768745.00	43.56158	371965.91	3768745.00	46.49353

**MODELOPTs:

CONC URBAN ELEV NOSTD HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC

- - - -

CONC URBAN ELEV NOSTD
HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371890.91	3768795.00	58.67432	371915.91	3768795.00	65.33839
371940.91	3768795.00	67.27020	371965.91	3768795.00	63.32224
371990.91	3768795.00	55.90467	372015.91	3768795.00	48.58451
372040.91	3768795.00	42.34607	372065.91	3768795.00	37.52625
372090.91	3768795.00	33.67220	372115.91	3768795.00	30.55203
372140.91	3768795.00	27.83938	372165.91	3768795.00	25.50273
372190.91	3768795.00	23.42522	372215.91	3768795.00	21.63856
372240.91	3768795.00	20.05025	372265.91	3768795.00	18.70780
372290.91	3768795.00	17.53814	372315.91	3768795.00	16.55354
372340.91	3768795.00	15.67490	372365.91	3768795.00	14.95938
371340.91	3768820.00	13.96653	371365.91	3768820.00	14.70409
371390.91	3768820.00	15.45284	371415.91	3768820.00	16.19406
371440.91	3768820.00	16.83380	371465.91	3768820.00	17.31197
371490.91	3768820.00	17.52237	371515.91	3768820.00	17.49512
371540.91	3768820.00	17.30702	371565.91	3768820.00	17.29976
371590.91	3768820.00	17.57745	371615.91	3768820.00	17.76036
371640.91	3768820.00	17.04303	371665.91	3768820.00	15.34041
371690.91	3768820.00	14.07984	371715.91	3768820.00	19.60727
371740.91	3768820.00	33.94360	371765.91	3768820.00	46.43556
371790.91	3768820.00	51.80251	371815.91	3768820.00	57.10080
371840.91	3768820.00	63.08897	371865.91	3768820.00	69.69578
371890.91	3768820.00	78.77815	371915.91	3768820.00	83.42635
371940.91	3768820.00	78.05334	371965.91	3768820.00	67.98222
371990.91	3768820.00	57.70264	372015.91	3768820.00	49.86041
372040.91	3768820.00	43.70637	372065.91	3768820.00	39.06760
372090.91	3768820.00	35.05563	372115.91	3768820.00	31.77371
372140.91	3768820.00	28.80948	372165.91	3768820.00	26.38106

372190.91	3768820.00	24.22249	372215.91	3768820.00	22.52188
372240.91	3768820.00	21.02835	372265.91	3768820.00	19.83663
372290.91	3768820.00	18.75775	372315.91	3768820.00	17.89911
372340.91	3768820.00	17.10260	372365.91	3768820.00	16.45298
371340.91	3768845.00	15.92969	371365.91	3768845.00	16.85711
371390.91	3768845.00	17.84782	371415.91	3768845.00	18.97095
371440.91	3768845.00	20.14057	371465.91	3768845.00	21.27861
371490.91	3768845.00	22.25786	371515.91	3768845.00	22.94351
371540.91	3768845.00	23.15087	371565.91	3768845.00	22.98833
371590.91	3768845.00	22.84601	371615.91	3768845.00	23.11164
371640.91	3768845.00	23.00111	371665.91	3768845.00	21.40881
371690.91	3768845.00	18.90976	371715.91	3768845.00	22.05472
371740.91	3768845.00	40.17624	371765.91	3768845.00	58.26815

CONC URBAN ELEV NOSTD HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371790.91	3768845.00	66.21322	371815.91	3768845.00	75.71771
371840.91	3768845.00	84.77449	371865.91	3768845.00	97.26097
371890.91	3768845.00	105.86047	371915.91	3768845.00	99.50505
371940.91	3768845.00	84.27888	371965.91	3768845.00	70.23862
371990.91	3768845.00	59.57246	372015.91	3768845.00	51.96835
372040.91	3768845.00	45.87247	372065.91	3768845.00	40.86071
372090.91	3768845.00	36.59071	372115.91	3768845.00	33.09734
372140.91	3768845.00	30.17663	372165.91	3768845.00	27.83895
372190.91	3768845.00	25.91293	372215.91	3768845.00	24.39907
372240.91	3768845.00	23.08678	372265.91	3768845.00	22.01292
372290.91	3768845.00	21.02309	372315.91	3768845.00	20.20534
372340.91	3768845.00	19.41466	372365.91	3768845.00	18.71828

371340.91	3768870.00	18.42494	371365.91	3768870.00	19.58975
371390.91	3768870.00	20.82835	371415.91	3768870.00	22.26709
371440.91	3768870.00	23.86165	371465.91	3768870.00	25.65698
371490.91	3768870.00	27.55232	371515.91	3768870.00	29.47869
371540.91	3768870.00	31.03995	371565.91	3768870.00	32.06638
371590.91	3768870.00	32.11807	371615.91	3768870.00	31.89161
371640.91	3768870.00	31.86259	371665.91	3768870.00	31.11566
371690.91	3768870.00	27.86389	371715.91	3768870.00	27.64511
371740.91	3768870.00	49.12637	371765.91	3768870.00	76.06386
371790.91	3768870.00	89.49376	371815.91	3768870.00	108.35922
371840.91	3768870.00	123.90344	371865.91	3768870.00	139.38577
371890.91	3768870.00	130.75955	371915.91	3768870.00	107.94458
371940.91	3768870.00	87.34787	371965.91	3768870.00	73.46303
371990.91	3768870.00	62.61272	372015.91	3768870.00	54.84595
372040.91	3768870.00	48.16666	372065.91	3768870.00	43.11420
372090.91	3768870.00	38.91388	372115.91	3768870.00	35.80149
372140.91	3768870.00	33.17662	372165.91	3768870.00	31.18473
372190.91	3768870.00	29.39613	372215.91	3768870.00	28.00455
372240.91	3768870.00	26.67696	372265.91	3768870.00	25.55503
372290.91	3768870.00	24.40026	372315.91	3768870.00	23.44650
372340.91	3768870.00	22.46434	372365.91	3768870.00	21.57656
371340.91	3768895.00	21.49022	371365.91	3768895.00	23.04183
371390.91	3768895.00	24.70770	371415.91	3768895.00	26.64126
371440.91	3768895.00	28.78088	371465.91	3768895.00	31.21067
371490.91	3768895.00	33.93494	371515.91	3768895.00	37.06497
371540.91	3768895.00	40.44813	371565.91	3768895.00	43.92315
371590.91	3768895.00	46.76442	371615.91	3768895.00	48.14674
371640.91	3768895.00	47.83295	371665.91	3768895.00	47.92202

**MODELOPTs:

CONC URBAN ELEV NOSTD HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371690.91	3768895.00	44.98217	371715.91	3768895.00	39.98969
371740.91	3768895.00	61.06758	371765.91	3768895.00	102.56137
371790.91	3768895.00	130.34776	371815.91	3768895.00	167.13454
371840.91	3768895.00	193.24559	371865.91	3768895.00	184.16017
371890.91	3768895.00	143.27771	371915.91	3768895.00	113.17765
371940.91	3768895.00	92.96317	371965.91	3768895.00	78.36152
371990.91	3768895.00	66.97424	372015.91	3768895.00	59.11765
372040.91	3768895.00	52.86313	372065.91	3768895.00	48.58342
372090.91	3768895.00	45.01881	372115.91	3768895.00	42.13697
372140.91	3768895.00	39.57825	372165.91	3768895.00	37.35654
372190.91	3768895.00	35.29304	372215.91	3768895.00	33.43163
372240.91	3768895.00	31.66569	372265.91	3768895.00	30.11579
372290.91	3768895.00	28.59216	372315.91	3768895.00	27.15965
372340.91	3768895.00	25.82969	372365.91	3768895.00	24.59428
371340.91	3768920.00	24.55494	371365.91	3768920.00	26.72520
371390.91	3768920.00	29.11286	371415.91	3768920.00	31.90797
371440.91	3768920.00	35.01847	371465.91	3768920.00	38.60345
371490.91	3768920.00	42.67581	371515.91	3768920.00	47.31949
371540.91	3768920.00	52.46640	371565.91	3768920.00	58.69333
371590.91	3768920.00	65.53734	371615.91	3768920.00	73.17358
371640.91	3768920.00	79.50014	371665.91	3768920.00	81.96984
371690.91	3768920.00	79.32564	371715.91	3768920.00	70.58627
371740.91	3768920.00	79.24005	371765.91	3768920.00	146.40483
371790.91	3768920.00	214.95511	371815.91	3768920.00	282.09778
371840.91	3768920.00	276.03912	371865.91	3768920.00	204.02599
371890.91	3768920.00	153.20892	371915.91	3768920.00	122.72727
371940.91	3768920.00	101.38087	371965.91	3768920.00	88.43455
371990.91	3768920.00	78.38461	372015.91	3768920.00	71.67546
372040.91	3768920.00	65.76823	372065.91	3768920.00	61.21887
372090.91	3768920.00	56.65872	372115.91	3768920.00	52.73357
372140.91	3768920.00	48.86699	372165.91	3768920.00	45.56087
372190.91	3768920.00	42.33816	372215.91	3768920.00	39.60794
372240.91	3768920.00	37.00394	372265.91	3768920.00	34.75840
372290.91	3768920.00	32.60210	372315.91	3768920.00	30.69593
372340.91	3768920.00	28.85913	372365.91	3768920.00	27.27905
371340.91	3768945.00	26.86412	371365.91	3768945.00	29.60839
371390.91	3768945.00	32.80381	371415.91	3768945.00	36.58208
371440.91	3768945.00	41.01057	371465.91	3768945.00	46.31352
371490.91	3768945.00	52.60408	371515.91	3768945.00	60.11773
371540.91	3768945.00	69.04314	371565.91	3768945.00	79.82151

CONC URBAN ELEV NOSTD
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*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371590.91	3768945.00	92.79735	371615.91	3768945.00	108.72470
371640.91	3768945.00	128.40225	371665.91	3768945.00	151.37737
371690.91	3768945.00	164.19662	371715.91	3768945.00	156.55757
371740.91	3768945.00	122.69586	371765.91	3768945.00	197.38687
371790.91	3768945.00	385.81250	371815.91	3768945.00	474.05630
371840.91	3768945.00	311.59644	371865.91	3768945.00	225.45898
371890.91	3768945.00	178.11298	371915.91	3768945.00	153.95059
371940.91	3768945.00	135.86243	371965.91	3768945.00	121.11905
371990.91	3768945.00	108.16471	372015.91	3768945.00	96.76080
372040.91	3768945.00	86.75599	372065.91	3768945.00	78.19372
372090.91	3768945.00	70.55387	372115.91	3768945.00	64.09010
372140.91	3768945.00	58.26176	372165.91	3768945.00	53.26028
372190.91	3768945.00	48.72304	372215.91	3768945.00	44.94299
372240.91	3768945.00	41.44559	372265.91	3768945.00	38.47121
372290.91	3768945.00	35.77903	372315.91	3768945.00	33.42131
372340.91	3768945.00	31.24249	372365.91	3768945.00	29.31433
371340.91	3768970.00	27.96634	371365.91	3768970.00	31.05681
371390.91	3768970.00	34.66759	371415.91	3768970.00	39.06750
371440.91	3768970.00	44.34463	371465.91	3768970.00	50.87333
371490.91	3768970.00	58.81588	371515.91	3768970.00	69.09521
371540.91	3768970.00	81.99084	371565.91	3768970.00	99.09427
371590.91	3768970.00	122.13786	371615.91	3768970.00	154.64417
371640.91	3768970.00	200.48463	371665.91	3768970.00	269.34924
371690.91	3768970.00	362.53741	371715.91	3768970.00	402.01428

371740.91	3768970.00	146.60927	371765.91	3768970.00	0.00000
371790.91	3768970.00	214.23691	371815.91	3768970.00	618.26740
371840.91	3768970.00	459.75003	371865.91	3768970.00	368.95090
371890.91	3768970.00	294.67618	371915.91	3768970.00	240.29019
371940.91	3768970.00	197.18666	371965.91	3768970.00	165.47318
371990.91	3768970.00	139.59261	372015.91	3768970.00	119.88672
372040.91	3768970.00	103.69988	372065.91	3768970.00	91.16103
372090.91	3768970.00	80.51618	372115.91	3768970.00	71.92164
372140.91	3768970.00	64.32035	372165.91	3768970.00	58.23899
372190.91	3768970.00	52.78812	372215.91	3768970.00	48.27154
372240.91	3768970.00	44.15157	372265.91	3768970.00	40.85847
372290.91	3768970.00	37.74790	372315.91	3768970.00	35.11022
372340.91	3768970.00	32.68243	372365.91	3768970.00	30.56899
371340.91	3768995.00	28.32161	371365.91	3768995.00	31.50969
371390.91	3768995.00	35.26744	371415.91	3768995.00	39.82191
371440.91	3768995.00	45.33514	371465.91	3768995.00	52.16388

**MODELOPTs:

CONC URBAN ELEV NOSTD HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371490.91	3768995.00	60.62489	371515.91	3768995.00	71.56474
371540.91	3768995.00	85.80594	371565.91	3768995.00	104.95425
371590.91	3768995.00	131.61772	371615.91	3768995.00	170.25774
371640.91	3768995.00	230.40964	371665.91	3768995.00	332.19000
371690.91	3768995.00	510.78589	371715.91	3768995.00	718.82343
371815.91	3768995.00	1199.52051	371840.91	3768995.00	783.85883
371865.91	3768995.00	518.67743	371890.91	3768995.00	374.53732
371915.91	3768995.00	286.15305	371940.91	3768995.00	225.85519
371965.91	3768995.00	184.95049	371990.91	3768995.00	152.79782

372015.91	3768995.00	129.66402	372040.91	3768995.00	111.18166
372065.91	3768995.00	96.63168	372090.91	3768995.00	84.86391
372115.91	3768995.00	75.49602	372140.91	3768995.00	67.34842
372165.91	3768995.00	60.66095	372190.91	3768995.00	54.82909
372215.91	3768995.00	49.95128	372240.91	3768995.00	45.65768
372265.91	3768995.00	42.00910	372290.91	3768995.00	38.80188
372315.91	3768995.00	36.00372	372340.91	3768995.00	33.45891
372365.91	3768995.00	31.26288	371340.91	3769020.00	28.48521
371365.91	3769020.00	31.70657	371390.91	3769020.00	35.51113
371415.91	3769020.00	40.09513	371440.91	3769020.00	45.60491
371465.91	3769020.00	52.48187	371490.91	3769020.00	60.91061
371515.91	3769020.00	71.78897	371540.91	3769020.00	85.68808
371565.91	3769020.00	104.18279	371590.91	3769020.00	128.79759
371615.91	3769020.00	163.16881	371640.91	3769020.00	211.37396
371665.91	3769020.00	284.89627	371690.91	3769020.00	402.55731
371715.91	3769020.00	614.38763	371740.91	3769020.00	436.77692
371765.91	3769020.00	339.25946	371790.91	3769020.00	1267.54871
371815.91	3769020.00	1791.84192	371840.91	3769020.00	984.97101
371865.91	3769020.00	587.28229	371890.91	3769020.00	397.86761
371915.91	3769020.00	295.95987	371940.91	3769020.00	230.36162
371965.91	3769020.00	188.22276	371990.91	3769020.00	155.07208
372015.91	3769020.00	131.51373	372040.91	3769020.00	112.47221
372065.91	3769020.00	98.11573	372090.91	3769020.00	85.93600
372115.91	3769020.00	76.36942	372140.91	3769020.00	68.05471
372165.91	3769020.00	61.31264	372190.91	3769020.00	55.32821
372215.91	3769020.00	50.51861	372240.91	3769020.00	46.06388
372265.91	3769020.00	42.45594	372290.91	3769020.00	39.15135
372315.91	3769020.00	36.35097	372340.91	3769020.00	33.76551
372365.91	3769020.00	31.54078	371340.91	3769045.00	34.02026
371365.91	3769045.00	31.63115	371390.91	3769045.00	35.31357
371415.91	3769045.00	39.66682	371440.91	3769045.00	44.84111

**MODELOPTs:

CONC URBAN ELEV NOSTD HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371465.91	3769045.00	51.02977	371490.91	3769045.00	58.47338
371515.91	3769045.00	67.67261	371540.91	3769045.00	78.72237
371565.91	3769045.00	92.56452	371590.91	3769045.00	110.15244
371615.91	3769045.00	134.57796	371640.91	3769045.00	172.10120
371665.91	3769045.00	229.05365	371690.91	3769045.00	296.97220
371715.91	3769045.00	388.44055	371740.91	3769045.00	515.15155
371765.91	3769045.00	760.38904	371790.91	3769045.00	1067.54895
371815.91	3769045.00	1203.21692	371840.91	3769045.00	939.67767
371865.91	3769045.00	648.95941	371890.91	3769045.00	432.89032
371915.91	3769045.00	308.73422	371940.91	3769045.00	234.17830
371965.91	3769045.00	186.94597	371990.91	3769045.00	153.75140
372015.91	3769045.00	129.49988	372040.91	3769045.00	111.00904
372065.91	3769045.00	96.83226	372090.91	3769045.00	85.05612
372115.91	3769045.00	75.66022	372140.91	3769045.00	67.69825
372165.91	3769045.00	61.02717	372190.91	3769045.00	55.25279
372215.91	3769045.00	50.38514	372240.91	3769045.00	46.07736
372265.91	3769045.00	42.41600	372290.91	3769045.00	39.19318
372315.91	3769045.00	36.42365	372340.91	3769045.00	33.82586
372365.91	3769045.00	31.57624	371340.91	3769070.00	27.79742
371365.91	3769070.00	30.62522	371390.91	3769070.00	33.82817
371415.91	3769070.00	37.52573	371440.91	3769070.00	41.74846
371465.91	3769070.00	46.65751	371490.91	3769070.00	52.34182
371515.91	3769070.00	59.32565	371540.91	3769070.00	67.89993
371565.91	3769070.00	79.33617	371590.91	3769070.00	94.99552
371615.91	3769070.00	116.47591	371640.91	3769070.00	141.99283
371665.91	3769070.00	171.96536	371690.91	3769070.00	214.11577
371715.91	3769070.00	257.94577	371740.91	3769070.00	345.99432
371765.91	3769070.00	468.55023	371790.91	3769070.00	556.69763
371815.91	3769070.00	695.26849	371840.91	3769070.00	688.21948
371865.91	3769070.00	570.11139	371890.91	3769070.00	437.02667
371915.91	3769070.00	326.39600	371940.91	3769070.00	245.73268
371965.91	3769070.00	192.24846	371990.91	3769070.00	154.81636
372015.91	3769070.00	129.11890	372040.91	3769070.00	109.18972
372065.91	3769070.00	94.93896	372090.91	3769070.00	83.09797
372115.91	3769070.00	74.07717	372140.91	3769070.00	66.15798
372165.91	3769070.00	59.89808	372190.91	3769070.00	54.19528
372215.91	3769070.00	49.61965	372240.91	3769070.00	45.38526

372265.91	3769070.00	41.91668	372290.91	3769070.00	38.82185
372315.91	3769070.00	36.06070	372340.91	3769070.00	33.51886
372365.91	3769070.00	31.33493	371340.91	3769095.00	31.58475

**MODELOPTs:
CONC URBAN ELEV NOSTD
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*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371365.91	3769095.00	28.48771	371390.91	3769095.00	31.08095
371415.91	3769095.00	34.02737	371440.91	3769095.00	37.40441
371465.91	3769095.00	41.43003	371490.91	3769095.00	46.36009
371515.91	3769095.00	52.73717	371540.91	3769095.00	61.00013
371565.91	3769095.00	71.61608	371590.91	3769095.00	83.97477
371615.91	3769095.00	97.00386	371640.91	3769095.00	111.04015
371665.91	3769095.00	132.25966	371690.91	3769095.00	156.82948
371715.91	3769095.00	183.84184	371740.91	3769095.00	250.66466
371765.91	3769095.00	319.00470	371790.91	3769095.00	355.46704
371815.91	3769095.00	408.91003	371840.91	3769095.00	464.16122
371865.91	3769095.00	438.30341	371890.91	3769095.00	378.67688
371915.91	3769095.00	313.84979	371940.91	3769095.00	251.07904
371965.91	3769095.00	199.97835	371990.91	3769095.00	160.59720
372015.91	3769095.00	132.21104	372040.91	3769095.00	110.84338
372065.91	3769095.00	94.90845	372090.91	3769095.00	82.53449
372115.91	3769095.00	72.85301	372140.91	3769095.00	65.00322
372165.91	3769095.00	58.61994	372190.91	3769095.00	53.12078
372215.91	3769095.00	48.57296	372240.91	3769095.00	44.54417
372265.91	3769095.00	41.12732	372290.91	3769095.00	38.07704
372315.91	3769095.00	35.41822	372340.91	3769095.00	32.98344
372365.91	3769095.00	30.86102	371340.91	3769120.00	24.00116
371365.91	3769120.00	25.93306	371390.91	3769120.00	28.13372

371415.91	3769120.00	30.75671	371440.91	3769120.00	33.89358
371465.91	3769120.00	37.83708	371490.91	3769120.00	42.71263
371515.91	3769120.00	48.78507	371540.91	3769120.00	55.72490
371565.91	3769120.00	63.17420	371590.91	3769120.00	70.46333
371615.91	3769120.00	78.71283	371640.91	3769120.00	90.30039
371665.91	3769120.00	105.19543	371690.91	3769120.00	116.49051
371715.91	3769120.00	141.48132	371740.91	3769120.00	187.55055
371765.91	3769120.00	229.37715	371790.91	3769120.00	249.15634
371815.91	3769120.00	264.98883	371840.91	3769120.00	303.96729
371865.91	3769120.00	325.04028	371890.91	3769120.00	304.36310
371915.91	3769120.00	272.19781	371940.91	3769120.00	235.00806
371965.91	3769120.00	198.09460	371990.91	3769120.00	163.63504
372015.91	3769120.00	135.96773	372040.91	3769120.00	113.67222
372065.91	3769120.00	96.85799	372090.91	3769120.00	83.53035
372115.91	3769120.00	73.15776	372140.91	3769120.00	64.70458
372165.91	3769120.00	58.05177	372190.91	3769120.00	52.30513
372215.91	3769120.00	47.70871	372240.91	3769120.00	43.67661
372265.91	3769120.00	40.27999	372290.91	3769120.00	37.24965

CONC URBAN ELEV NOSTD
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*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372315.91	3769120.00	34.61651	372340.91	3769120.00	32.26033
372365.91	3769120.00	30.23506	371340.91	3769145.00	22.01399
371365.91	3769145.00	23.82672	371390.91	3769145.00	25.98218
371415.91	3769145.00	28.61093	371440.91	3769145.00	31.76616
371465.91	3769145.00	35.55061	371490.91	3769145.00	39.84217
371515.91	3769145.00	44.49514	371540.91	3769145.00	49.10578
371565.91	3769145.00	53.73117	371590.91	3769145.00	58.91128

371615.91	3769145.00	66.31921	371640.91	3769145.00	75.82149
371665.91	3769145.00	83.72210	371690.91	3769145.00	92.45499
371715.91	3769145.00	114.69001	371740.91	3769145.00	146.81458
371765.91	3769145.00	173.13058	371790.91	3769145.00	185.52950
371815.91	3769145.00	190.87172	371840.91	3769145.00	209.42412
371865.91	3769145.00	235.76613	371890.91	3769145.00	240.30986
371915.91	3769145.00	226.50497	371940.91	3769145.00	205.98027
371965.91	3769145.00	183.11008	371990.91	3769145.00	158.97314
372015.91	3769145.00	136.22704	372040.91	3769145.00	115.75961
372065.91	3769145.00	99.09828	372090.91	3769145.00	85.37834
372115.91	3769145.00	74.47753	372140.91	3769145.00	65.61743
372165.91	3769145.00	58.45303	372190.91	3769145.00	52.44164
372215.91	3769145.00	47.50979	372240.91	3769145.00	43.25621
372265.91	3769145.00	39.75269	372290.91	3769145.00	36.64831
372315.91	3769145.00	34.01348	372340.91	3769145.00	31.66474
372365.91	3769145.00	29.61410	371340.91	3769170.00	20.61510
371365.91	3769170.00	22.46042	371390.91	3769170.00	24.63269
371415.91	3769170.00	27.17946	371440.91	3769170.00	30.01790
371465.91	3769170.00	33.10015	371490.91	3769170.00	36.18927
371515.91	3769170.00	39.27924	371540.91	3769170.00	42.31445
371565.91	3769170.00	45.92017	371590.91	3769170.00	50.83546
371615.91	3769170.00	57.30205	371640.91	3769170.00	63.18678
371665.91	3769170.00	67.76910	371690.91	3769170.00	77.13036
371715.91	3769170.00	95.80129	371740.91	3769170.00	118.15968
371765.91	3769170.00	136.25777	371790.91	3769170.00	144.57443
371815.91	3769170.00	146.57558	371840.91	3769170.00	153.15331
371865.91	3769170.00	171.50948	371890.91	3769170.00	185.56514
371915.91	3769170.00	185.61351	371940.91	3769170.00	174.89023
371965.91	3769170.00	161.46562	371990.91	3769170.00	145.94870
372015.91	3769170.00	130.13911	372040.91	3769170.00	114.08437
372065.91	3769170.00	99.45539	372090.91	3769170.00	86.47408
372115.91	3769170.00	75.90611	372140.91	3769170.00	66.78208
372165.91	3769170.00	59.35885	372190.91	3769170.00	53.03766

**MODELOPTs:

CONC URBAN ELEV NOSTD HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372215.91	3769170.00	47.81969	372240.91	3769170.00	43.36785
372265.91	3769170.00	39.65584	372290.91	3769170.00	36.39711
372315.91	3769170.00	33.67433	372340.91	3769170.00	31.25668
372365.91	3769170.00	29.17695	371340.91	3769195.00	19.71518
371365.91	3769195.00	21.51076	371390.91	3769195.00	23.50394
371415.91	3769195.00	25.65878	371440.91	3769195.00	27.86053
371465.91	3769195.00	30.03483	371490.91	3769195.00	32.13157
371515.91	3769195.00	34.30407	371540.91	3769195.00	36.85275
371565.91	3769195.00	40.35925	371590.91	3769195.00	44.87062
371615.91	3769195.00	49.42271	371640.91	3769195.00	52.67120
371665.91	3769195.00	56.86057	371690.91	3769195.00	66.25312
371715.91	3769195.00	81.11008	371740.91	3769195.00	97.56238
371765.91	3769195.00	110.37038	371790.91	3769195.00	116.37721
371815.91	3769195.00	117.38958	371840.91	3769195.00	119.14314
371865.91	3769195.00	128.70195	371890.91	3769195.00	142.38837
371915.91	3769195.00	149.66331	371940.91	3769195.00	147.17120
371965.91	3769195.00	139.62643	371990.91	3769195.00	129.85294
372015.91	3769195.00	119.62537	372040.91	3769195.00	108.23975
372065.91	3769195.00	97.04356	372090.91	3769195.00	86.25912
372115.91	3769195.00	76.51008	372140.91	3769195.00	67.75510
372165.91	3769195.00	60.33009	372190.91	3769195.00	53.89548
372215.91	3769195.00	48.53441	372240.91	3769195.00	43.88955
372265.91	3769195.00	39.97338	372290.91	3769195.00	36.59811
372315.91	3769195.00	33.71524	372340.91	3769195.00	31.18687
372365.91	3769195.00	29.01449	371340.91	3769220.00	18.94253
371365.91	3769220.00	20.51057	371390.91	3769220.00	22.11873
371415.91	3769220.00	23.73191	371440.91	3769220.00	25.27585
371465.91	3769220.00	26.80870	371490.91	3769220.00	28.38256
371515.91	3769220.00	30.31985	371540.91	3769220.00	32.85913
371565.91	3769220.00	36.17438	371590.91	3769220.00	39.64510
371615.91	3769220.00	42.37225	371640.91	3769220.00	44.58697
371665.91	3769220.00	49.21185	371690.91	3769220.00	57.73376
371715.91	3769220.00	69.60361	371740.91	3769220.00	81.92832
371765.91	3769220.00	91.49149	371790.91	3769220.00	95.70349
371815.91	3769220.00	96.54953	371840.91	3769220.00	96.41319
371865.91	3769220.00	100.68126	371890.91	3769220.00	110.05712

371915.91	3769220.00	119.51922	371940.91	3769220.00	122.50032
371965.91	3769220.00	119.95528	371990.91	3769220.00	113.99088
372015.91	3769220.00	107.15656	372040.91	3769220.00	99.45584
372065.91	3769220.00	91.66870	372090.91	3769220.00	83.32663

**MODELOPTs:

CONC URBAN ELEV NOSTD HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372115.91	3769220.00	75.32207	372140.91	3769220.00	67.55024
372165.91	3769220.00	60.71198	372190.91	3769220.00	54.51083
372215.91	3769220.00	49.17012	372240.91	3769220.00	44.46505
372265.91	3769220.00	40.46907	372290.91	3769220.00	36.92786
372315.91	3769220.00	33.96918	372340.91	3769220.00	31.32279
372365.91	3769220.00	29.07102	371340.91	3769245.00	18.01371
371365.91	3769245.00	19.24279	371390.91	3769245.00	20.43494
371415.91	3769245.00	21.58540	371440.91	3769245.00	22.72260
371465.91	3769245.00	23.94535	371490.91	3769245.00	25.41159
371515.91	3769245.00	27.34456	371540.91	3769245.00	29.80704
371565.91	3769245.00	32.52697	371590.91	3769245.00	34.79689
371615.91	3769245.00	36.45094	371640.91	3769245.00	38.73364
371665.91	3769245.00	43.51342	371690.91	3769245.00	50.92486
371715.91	3769245.00	60.51561	371740.91	3769245.00	70.05620
371765.91	3769245.00	77.08750	371790.91	3769245.00	80.47055
371815.91	3769245.00	81.03449	371840.91	3769245.00	80.29903
371865.91	3769245.00	81.82897	371890.91	3769245.00	87.42461
371915.91	3769245.00	95.35011	371940.91	3769245.00	101.04636
371965.91	3769245.00	102.27954	371990.91	3769245.00	99.58235
372015.91	3769245.00	95.16966	372040.91	3769245.00	89.91563
372065.91	3769245.00	84.39260	372090.91	3769245.00	78.46880

372115.91	3769245.00	72.38663	372140.91	3769245.00	66.14027
372165.91	3769245.00	60.20351	372190.91	3769245.00	54.57965
372215.91	3769245.00	49.52493	372240.91	3769245.00	44.92849
372265.91	3769245.00	40.95063	372290.91	3769245.00	37.41625
372315.91	3769245.00	34.36443	372340.91	3769245.00	31.65750
372365.91	3769245.00	29.30784	371340.91	3769270.00	16.86182
371365.91	3769270.00	17.77000	371390.91	3769270.00	18.64126
371415.91	3769270.00	19.52565	371440.91	3769270.00	20.47623
371465.91	3769270.00	21.64279	371490.91	3769270.00	23.13133
371515.91	3769270.00	25.03793	371540.91	3769270.00	27.14364
371565.91	3769270.00	29.09311	371590.91	3769270.00	30.44380
371615.91	3769270.00	31.81570	371640.91	3769270.00	34.32618
371665.91	3769270.00	38.93232	371690.91	3769270.00	45.30840
371715.91	3769270.00	53.07227	371740.91	3769270.00	60.51043
371765.91	3769270.00	65.94457	371790.91	3769270.00	68.60339
371815.91	3769270.00	69.09936	371840.91	3769270.00	68.26693
371865.91	3769270.00	68.46876	371890.91	3769270.00	71.32069
371915.91	3769270.00	77.01135	371940.91	3769270.00	82.97768
371965.91	3769270.00	86.52353	371990.91	3769270.00	86.39931

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372015.91	3769270.00	84.24506	372040.91	3769270.00	80.63796
372065.91	3769270.00	76.77596	372090.91	3769270.00	72.43980
372115.91	3769270.00	68.02326	372140.91	3769270.00	63.26108
372165.91	3769270.00	58.54532	372190.91	3769270.00	53.77393
372215.91	3769270.00	49.27367	372240.91	3769270.00	45.03819

372265.91	3769270.00	41.23298	372290.91	3769270.00	37.74244
372315.91	3769270.00	34.73349	372340.91	3769270.00	31.97769
372365.91	3769270.00	29.61329	371340.91	3769295.00	15.59125
371365.91	3769295.00	16.27322	371390.91	3769295.00	16.96884
371415.91	3769295.00	17.74186	371440.91	3769295.00	18.66998
371465.91	3769295.00	19.86121	371490.91	3769295.00	21.34073
371515.91	3769295.00	23.04152	371540.91	3769295.00	24.65127
371565.91	3769295.00	25.88282	371590.91	3769295.00	26.82397
371615.91	3769295.00	28.26121	371640.91	3769295.00	30.94781
371665.91	3769295.00	35.12315	371690.91	3769295.00	40.58119
371715.91	3769295.00	46.94817	371740.91	3769295.00	52.89698
371765.91	3769295.00	57.19429	371790.91	3769295.00	59.27906
371815.91	3769295.00	59.76672	371840.91	3769295.00	58.99166
371865.91	3769295.00	58.57547	371890.91	3769295.00	59.79070
371915.91	3769295.00	63.44004	371940.91	3769295.00	68.41060
371965.91	3769295.00	72.69525	371990.91	3769295.00	74.61407
372015.91	3769295.00	74.21144	372040.91	3769295.00	72.14009
372065.91	3769295.00	69.42269	372090.91	3769295.00	66.28339
372115.91	3769295.00	63.02258	372140.91	3769295.00	59.47954
372165.91	3769295.00	55.88562	372190.91	3769295.00	52.08221
372215.91	3769295.00	48.34114	372240.91	3769295.00	44.63178
372265.91	3769295.00	41.15499	372290.91	3769295.00	37.89870
372315.91	3769295.00	34.96619	372340.91	3769295.00	32.27926
372365.91	3769295.00	29.89189	371340.91	3769320.00	14.33484
371365.91	3769320.00	14.90142	371390.91	3769320.00	15.52776
371415.91	3769320.00	16.29148	371440.91	3769320.00	17.24759
371465.91	3769320.00	18.43882	371490.91	3769320.00	19.80098
371515.91	3769320.00	21.16150	371540.91	3769320.00	22.24782
371565.91	3769320.00	23.04814	371590.91	3769320.00	23.90849
371615.91	3769320.00	25.50000	371640.91	3769320.00	28.14917
371665.91	3769320.00	31.91332	371690.91	3769320.00	36.57556
371715.91	3769320.00	41.86216	371740.91	3769320.00	46.65320
371765.91	3769320.00	50.09220	371790.91	3769320.00	51.73652
371815.91	3769320.00	52.21204	371840.91	3769320.00	51.61672
371865.91	3769320.00	50.95948	371890.91	3769320.00	51.23318

**MODELOPTs:

CONC URBAN ELEV NOSTD HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371915.91	3769320.00	53.33888	371940.91	3769320.00	56.97136
371965.91	3769320.00	61.06481	371990.91	3769320.00	63.93875
372015.91	3769320.00	65.02622	372040.91	3769320.00	64.29039
372065.91	3769320.00	62.66567	372090.91	3769320.00	60.37165
372115.91	3769320.00	57.92707	372140.91	3769320.00	55.28246
372165.91	3769320.00	52.56046	372190.91	3769320.00	49.61188
372215.91	3769320.00	46.65623	372240.91	3769320.00	43.57884
372265.91	3769320.00	40.59717	372290.91	3769320.00	37.65320
372315.91	3769320.00	34.95475	372340.91	3769320.00	32.38744
372365.91	3769320.00	30.08152	371340.91	3769345.00	13.19853
371365.91	3769345.00	13.72344	371390.91	3769345.00	14.35014
371415.91	3769345.00	15.13669	371440.91	3769345.00	16.10143
371465.91	3769345.00	17.21526	371490.91	3769345.00	18.35458
371515.91	3769345.00	19.33302	371540.91	3769345.00	20.04424
371565.91	3769345.00	20.66178	371590.91	3769345.00	21.59597
371615.91	3769345.00	23.27592	371640.91	3769345.00	25.80077
371665.91	3769345.00	29.14262	371690.91	3769345.00	33.17125
371715.91	3769345.00	37.59579	371740.91	3769345.00	41.49653
371765.91	3769345.00	44.26949	371790.91	3769345.00	45.68316
371815.91	3769345.00	46.04119	371840.91	3769345.00	45.58098
371865.91	3769345.00	44.88533	371890.91	3769345.00	44.66702
371915.91	3769345.00	45.74227	371940.91	3769345.00	48.21274
371965.91	3769345.00	51.56840	371990.91	3769345.00	54.68395
372015.91	3769345.00	56.66957	372040.91	3769345.00	57.14106
372065.91	3769345.00	56.43775	372090.91	3769345.00	54.92525
372115.91	3769345.00	53.13335	372140.91	3769345.00	51.08775
372165.91	3769345.00	48.99817	372190.91	3769345.00	46.75351
372215.91	3769345.00	44.44176	372240.91	3769345.00	41.98820
372265.91	3769345.00	39.53106	372290.91	3769345.00	37.04066
372315.91	3769345.00	34.62481	372340.91	3769345.00	32.29133
372365.91	3769345.00	30.09791	371340.91	3769370.00	12.22135
371365.91	3769370.00	12.75125	371390.91	3769370.00	13.39821
371415.91	3769370.00	14.19766	371440.91	3769370.00	15.11454

371465.91	3769370.00	16.07465	371490.91	3769370.00	16.93703
371515.91	3769370.00	17.60197	371540.91	3769370.00	18.09667
371565.91	3769370.00	18.69488	371590.91	3769370.00	19.72683
371615.91	3769370.00	21.42999	371640.91	3769370.00	23.76633
371665.91	3769370.00	26.73995	371690.91	3769370.00	30.21516
371715.91	3769370.00	33.96093	371740.91	3769370.00	37.14094
371765.91	3769370.00	39.45877	371790.91	3769370.00	40.59793

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371815.91	3769370.00	40.95173	371840.91	3769370.00	40.60038
371865.91	3769370.00	39.94600	371890.91	3769370.00	39.48882
371915.91	3769370.00	39.92923	371940.91	3769370.00	41.42859
371965.91	3769370.00	43.99412	371990.91	3769370.00	46.82218
372015.91	3769370.00	49.20429	372040.91	3769370.00	50.46839
372065.91	3769370.00	50.63893	372090.91	3769370.00	49.87336
372115.91	3769370.00	48.63877	372140.91	3769370.00	47.09228
372165.91	3769370.00	45.44463	372190.91	3769370.00	43.69369
372215.91	3769370.00	41.90537	372240.91	3769370.00	39.96643
372265.91	3769370.00	38.02401	372290.91	3769370.00	35.95254
372315.91	3769370.00	33.92858	372340.91	3769370.00	31.87744
372365.91	3769370.00	29.90887	371340.91	3769395.00	11.41239
371365.91	3769395.00	11.95924	371390.91	3769395.00	12.62192
371415.91	3769395.00	13.39140	371440.91	3769395.00	14.20127
371465.91	3769395.00	14.96107	371490.91	3769395.00	15.56927
371515.91	3769395.00	16.01796	371540.91	3769395.00	16.43592
371565.91	3769395.00	17.09160	371590.91	3769395.00	18.20178
371615.91	3769395.00	19.85130	371640.91	3769395.00	21.99084

371665.91	3769395.00	24.63466	371690.91	3769395.00	27.68898
371715.91	3769395.00	30.83819	371740.91	3769395.00	33.51278
371765.91	3769395.00	35.38991	371790.91	3769395.00	36.37240
371815.91	3769395.00	36.70499	371840.91	3769395.00	36.43499
371865.91	3769395.00	35.85258	371890.91	3769395.00	35.30695
371915.91	3769395.00	35.32518	371940.91	3769395.00	36.17831
371965.91	3769395.00	37.98026	371990.91	3769395.00	40.34131
372015.91	3769395.00	42.70565	372040.91	3769395.00	44.41167
372065.91	3769395.00	45.24821	372090.91	3769395.00	45.17046
372115.91	3769395.00	44.46694	372140.91	3769395.00	43.36661
372165.91	3769395.00	42.07509	372190.91	3769395.00	40.70288
372215.91	3769395.00	39.28012	372240.91	3769395.00	37.77242
372265.91	3769395.00	36.21661	372290.91	3769395.00	34.57135
372315.91	3769395.00	32.89670	372340.91	3769395.00	31.16094
372365.91	3769395.00	29.45547	371340.91	3769420.00	10.74537
371365.91	3769420.00	11.30493	371390.91	3769420.00	11.95083
371415.91	3769420.00	12.64668	371440.91	3769420.00	13.31017
371465.91	3769420.00	13.87150	371490.91	3769420.00	14.28625
371515.91	3769420.00	14.62298	371540.91	3769420.00	15.04563
371565.91	3769420.00	15.77403	371590.91	3769420.00	16.90596
371615.91	3769420.00	18.47611	371640.91	3769420.00	20.41174
371665.91	3769420.00	22.78774	371690.91	3769420.00	25.45577

CONC URBAN ELEV NOSTD
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*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371715.91	3769420.00	28.13984	371740.91	3769420.00	30.37325
371765.91	3769420.00	31.94816	371790.91	3769420.00	32.78651
371815.91	3769420.00	33.09720	371840.91	3769420.00	32.87811

371865.91	3769420.00	32.41393	371890.91	3769420.00	31.81816
371915.91	3769420.00	31.61899	371940.91	3769420.00	32.00107
371965.91	3769420.00	33.21103	371990.91	3769420.00	35.02127
372015.91	3769420.00	37.14522	372040.91	3769420.00	38.97837
372065.91	3769420.00	40.28339	372090.91	3769420.00	40.72823
372115.91	3769420.00	40.58144	372140.91	3769420.00	39.88731
372165.91	3769420.00	38.94703	372190.91	3769420.00	37.83768
372215.91	3769420.00	36.71724	372240.91	3769420.00	35.49196
372265.91	3769420.00	34.25894	372290.91	3769420.00	32.92093
372315.91	3769420.00	31.59741	372340.91	3769420.00	30.16134
372365.91	3769420.00	28.72567	371340.91	3769445.00	10.19093
371365.91	3769445.00	10.74121	371390.91	3769445.00	11.33678
371415.91	3769445.00	11.92354	371440.91	3769445.00	12.43360
371465.91	3769445.00	12.82839	371490.91	3769445.00	13.12071
371515.91	3769445.00	13.42607	371540.91	3769445.00	13.89424
371565.91	3769445.00	14.67387	371590.91	3769445.00	15.79609
371615.91	3769445.00	17.25475	371640.91	3769445.00	19.02912
371665.91	3769445.00	21.15285	371690.91	3769445.00	23.49552
371715.91	3769445.00	25.79681	371740.91	3769445.00	27.69312
371765.91	3769445.00	29.02176	371790.91	3769445.00	29.73209
371815.91	3769445.00	30.01915	371840.91	3769445.00	29.87838
371865.91	3769445.00	29.45672	371890.91	3769445.00	28.90403
371915.91	3769445.00	28.57386	371940.91	3769445.00	28.67048
371965.91	3769445.00	29.41317	371990.91	3769445.00	30.73150
372015.91	3769445.00	32.49110	372040.91	3769445.00	34.27601
372065.91	3769445.00	35.74450	372090.91	3769445.00	36.63195
372115.91	3769445.00	36.92105	372140.91	3769445.00	36.64409
372165.91	3769445.00	36.03159	372190.91	3769445.00	35.20396
372215.91	3769445.00	34.27657	372240.91	3769445.00	33.29202
372265.91	3769445.00	32.28825	372290.91	3769445.00	31.21902
372315.91	3769445.00	30.12857	372340.91	3769445.00	28.96896
372365.91	3769445.00	27.79342	371340.91	3769470.00	9.71216
371365.91	3769470.00	10.22762	371390.91	3769470.00	10.74130
371415.91	3769470.00	11.20836	371440.91	3769470.00	11.57806
371465.91	3769470.00	11.85579	371490.91	3769470.00	12.08852
371515.91	3769470.00	12.40827	371540.91	3769470.00	12.92790
371565.91	3769470.00	13.73385	371590.91	3769470.00	14.81536

CONC URBAN ELEV NOSTD
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*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371615.91	3769470.00	16.16543	371640.91	3769470.00	17.78389
371665.91	3769470.00	19.69171	371690.91	3769470.00	21.74313
371715.91	3769470.00	23.74276	371740.91	3769470.00	25.35060
371765.91	3769470.00	26.48246	371790.91	3769470.00	27.10850
371815.91	3769470.00	27.36175	371840.91	3769470.00	27.25105
371865.91	3769470.00	26.91357	371890.91	3769470.00	26.41741
371915.91	3769470.00	26.03075	371940.91	3769470.00	25.92373
371965.91	3769470.00	26.32830	371990.91	3769470.00	27.25258
372015.91	3769470.00	28.63995	372040.91	3769470.00	30.19866
372065.91	3769470.00	31.70214	372090.91	3769470.00	32.82346
372115.91	3769470.00	33.46521	372140.91	3769470.00	33.56578
372165.91	3769470.00	33.29562	372190.91	3769470.00	32.71894
372215.91	3769470.00	32.00951	372240.91	3769470.00	31.18447
372265.91	3769470.00	30.36267	372290.91	3769470.00	29.47856
372315.91	3769470.00	28.60279	372340.91	3769470.00	27.65102
372365.91	3769470.00	26.68907	371340.91	3769495.00	9.27672
371365.91	3769495.00	9.73229	371390.91	3769495.00	10.15430
371415.91	3769495.00	10.50405	371440.91	3769495.00	10.76481
371465.91	3769495.00	10.97091	371490.91	3769495.00	11.19569
371515.91	3769495.00	11.54996	371540.91	3769495.00	12.10844
371565.91	3769495.00	12.91470	371590.91	3769495.00	13.94116
371615.91	3769495.00	15.19260	371640.91	3769495.00	16.67369
371665.91	3769495.00	18.39309	371690.91	3769495.00	20.21405
371715.91	3769495.00	21.92989	371740.91	3769495.00	23.31963
371765.91	3769495.00	24.28998	371790.91	3769495.00	24.82848
371815.91	3769495.00	25.05865	371840.91	3769495.00	24.99376
371865.91	3769495.00	24.71554	371890.91	3769495.00	24.26660
371915.91	3769495.00	23.85720	371940.91	3769495.00	23.64770
371965.91	3769495.00	23.81164	371990.91	3769495.00	24.41066
372015.91	3769495.00	25.44966	372040.91	3769495.00	26.76878
372065.91	3769495.00	28.17055	372090.91	3769495.00	29.37600

372115.91	3769495.00	30.24962	372140.91	3769495.00	30.66063
372165.91	3769495.00	30.69573	372190.91	3769495.00	30.38161
372215.91	3769495.00	29.88261	372240.91	3769495.00	29.24016
372265.91	3769495.00	28.54863	372290.91	3769495.00	27.82501
372315.91	3769495.00	27.07954	372340.91	3769495.00	26.29869
372365.91	3769495.00	25.50840	371340.91	3769520.00	8.85940
371365.91	3769520.00	9.24261	371390.91	3769520.00	9.56833
371415.91	3769520.00	9.82113	371440.91	3769520.00	10.00951
371465.91	3769520.00	10.18661	371490.91	3769520.00	10.42602

**MODELOPTs:

CONC URBAN ELEV NOSTD HE>ZI

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371515.91	3769520.00	10.81727	371540.91	3769520.00	11.40105
371565.91	3769520.00	12.18709	371590.91	3769520.00	13.14960
371615.91	3769520.00	14.31366	371640.91	3769520.00	15.67047
371665.91	3769520.00	17.22281	371690.91	3769520.00	18.82052
371715.91	3769520.00	20.32531	371740.91	3769520.00	21.50879
371765.91	3769520.00	22.35884	371790.91	3769520.00	22.81887
371815.91	3769520.00	23.04240	371840.91	3769520.00	22.98818
371865.91	3769520.00	22.77530	371890.91	3769520.00	22.37326
371915.91	3769520.00	21.98934	371940.91	3769520.00	21.69451
371965.91	3769520.00	21.70869	371990.91	3769520.00	22.05470
372015.91	3769520.00	22.81821	372040.91	3769520.00	23.85499
372065.91	3769520.00	25.10066	372090.91	3769520.00	26.29280
372115.91	3769520.00	27.28427	372140.91	3769520.00	27.92670
372165.91	3769520.00	28.21800	372190.91	3769520.00	28.15277
372215.91	3769520.00	27.86161	372240.91	3769520.00	27.39357
372265.91	3769520.00	26.84514	372290.91	3769520.00	26.22397

372315.91	3769520.00	25.60721	372340.91	3769520.00	24.94816
372365.91	3769520.00	24.29582	371340.91	3769545.00	10.25442
371365.91	3769545.00	8.75395	371390.91	3769545.00	8.99586
371415.91	3769545.00	9.17720	371440.91	3769545.00	9.32415
371465.91	3769545.00	9.49931	371490.91	3769545.00	9.76899
371515.91	3769545.00	10.19133	371540.91	3769545.00	10.78064
371565.91	3769545.00	11.53850	371590.91	3769545.00	12.44174
371615.91	3769545.00	13.51386	371640.91	3769545.00	14.76211
371665.91	3769545.00	16.16467	371690.91	3769545.00	17.58912
371715.91	3769545.00	18.89427	371740.91	3769545.00	19.93211
371765.91	3769545.00	20.66616	371790.91	3769545.00	21.08227
371815.91	3769545.00	21.26772	371840.91	3769545.00	21.24901
371865.91	3769545.00	21.06820	371890.91	3769545.00	20.73009
371915.91	3769545.00	20.35314	371940.91	3769545.00	20.04086
371965.91	3769545.00	19.94003	371990.91	3769545.00	20.11252
372015.91	3769545.00	20.62583	372040.91	3769545.00	21.43595
372065.91	3769545.00	22.47542	372090.91	3769545.00	23.56990
372115.91	3769545.00	24.59442	372140.91	3769545.00	25.37773
372165.91	3769545.00	25.86635	372190.91	3769545.00	26.03004
372215.91	3769545.00	25.95218	372240.91	3769545.00	25.65223
372265.91	3769545.00	25.24406	372290.91	3769545.00	24.74015
372315.91	3769545.00	24.21185	372340.91	3769545.00	23.65050
372365.91	3769545.00	23.09607	371340.91	3769570.00	9.64979
371365.91	3769570.00	8.26967	371390.91	3769570.00	8.44468

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
371415.91	3769570.00	8.57984	371440.91	3769570.00	8.71272

371465.91	3769570.00	8.90411	371490.91	3769570.00	9.20147
371515.91	3769570.00	9.64386	371540.91	3769570.00	10.22653
371565.91	3769570.00	10.94641	371590.91	3769570.00	11.78939
371615.91	3769570.00	12.78605	371640.91	3769570.00	13.93478
371665.91	3769570.00	15.20241	371690.91	3769570.00	16.46850
371715.91	3769570.00	17.62027	371740.91	3769570.00	18.51698
371765.91	3769570.00	19.16705	371790.91	3769570.00	19.52788
371815.91	3769570.00	19.70872	371840.91	3769570.00	19.69143
371865.91	3769570.00	19.55575	371890.91	3769570.00	19.25967
371915.91	3769570.00	18.92165	371940.91	3769570.00	18.58762
371965.91	3769570.00	18.41842	371990.91	3769570.00	18.46271
372015.91	3769570.00	18.79955	372040.91	3769570.00	19.38847
372065.91	3769570.00	20.23288	372090.91	3769570.00	21.19810
372115.91	3769570.00	22.18628	372140.91	3769570.00	23.01598
372165.91	3769570.00	23.66117	372190.91	3769570.00	23.99301
372215.91	3769570.00	24.11128	372240.91	3769570.00	23.97488
372265.91	3769570.00	23.71451	372290.91	3769570.00	23.31641
372315.91	3769570.00	22.89432	372340.91	3769570.00	22.40803
372365.91	3769570.00	21.93953	371340.91	3769595.00	9.06107
371365.91	3769595.00	9.38684	371390.91	3769595.00	7.92555
371415.91	3769595.00	8.03686	371440.91	3769595.00	8.17330
371465.91	3769595.00	8.38733	371490.91	3769595.00	8.71012
371515.91	3769595.00	9.16119	371540.91	3769595.00	9.72795
371565.91	3769595.00	10.40654	371590.91	3769595.00	11.19587
371615.91	3769595.00	12.12582	371640.91	3769595.00	13.18375
371665.91	3769595.00	14.32926	371690.91	3769595.00	15.45700
371715.91	3769595.00	16.47444	371740.91	3769595.00	17.26650
371765.91	3769595.00	17.82709	371790.91	3769595.00	18.15929
371815.91	3769595.00	18.32092	371840.91	3769595.00	18.32037
371865.91	3769595.00	18.19864	371890.91	3769595.00	17.95115
371915.91	3769595.00	17.64534	371940.91	3769595.00	17.32636
371965.91	3769595.00	17.10897	371990.91	3769595.00	17.05736
372015.91	3769595.00	17.24922	372040.91	3769595.00	17.67745
372065.91	3769595.00	18.33532	372090.91	3769595.00	19.15043
372115.91	3769595.00	20.05239	372140.91	3769595.00	20.89572
372165.91	3769595.00	21.60194	372190.91	3769595.00	22.08606
372215.91	3769595.00	22.35006	372240.91	3769595.00	22.39656
372265.91	3769595.00	22.26455	372290.91	3769595.00	21.99570
372315.91	3769595.00	21.65355	372340.91	3769595.00	21.25645

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SRC4 , SRC3 , SRC5 , SRC6 , SRC7 , SRC8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
372365.91	3769595.00	20.84358	372390.91	3769170.00	27.30983
372415.91	3769170.00	25.66719	372390.91	3769195.00	27.08271
372415.91	3769195.00	25.39008	372324.62	3768512.50	12.79850
372240.62	3768308.50	7.71098	373073.12	3769250.00	8.50648
370888.16	3768917.00	8.52394	373073.78	3769299.75	8.24988
373076.31	3768939.25	8.71566	372601.41	3768361.25	6.68043
372301.84	3768327.50	8.90654	371747.22	3768345.00	5.34279
372389.25	3769329.00	28.16172	371296.72	3768889.25	22.15031
372959.97	3768868.75	9.34494	371735.91	3768977.75	324.55173
371738.66	3768975.00	254.10521	371763.66	3768974.50	0.00000
371788.62	3768974.25	190.22263	371791.47	3768974.00	360.56509
371794.09	3768976.75	481.52310	371794.53	3769001.75	944.70544
371794.62	3769008.00	1039.25562	371769.62	3769008.50	0.00000
371744.62	3769009.00	192.91345	371736.47	3769009.00	314.06714
371736.03	3768984.00	378.04074	371735.91	3768977.75	324.55173

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	1791.84192 AT (	371815.91,	3769020.00,	49.96,	0.00)		DC	NA
	2ND HIGHEST VALUE IS	1267.54871 AT (	371790.91,	3769020.00,	50.20,	0.00)		DC	NA
	3RD HIGHEST VALUE IS	1203.21692 AT (	371815.91,	3769045.00,	49.95,	0.00)		DC	NA
	4TH HIGHEST VALUE IS	1199.52051 AT (	371815.91,	3768995.00,	49.95,	0.00)		DC	NA
	5TH HIGHEST VALUE IS	1067.54895 AT (	371790.91,	3769045.00,	50.30,	0.00)		DC	NA
	6TH HIGHEST VALUE IS	1039.25562 AT (	371794.62,	3769008.00,	50.20,	0.00)		DC	NA
	7TH HIGHEST VALUE IS	984.97101 AT (	371840.91,	3769020.00,	49.42,	0.00)		DC	NA
	8TH HIGHEST VALUE IS	944.70544 AT (	371794.53,	3769001.75,	50.20,	0.00)		DC	NA
	9TH HIGHEST VALUE IS	939.67767 AT (	371840.91,	3769045.00,	49.50,	0.00)		DC	NA
	10TH HIGHEST VALUE IS	783.85883 AT (	371840.91,	3768995.00,	49.45,	0.00)		DC	NA

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

**MODELOPTs:
CONC URBAN ELEV NOSTD
HE>ZI

*** Message Summary : ISCST3 Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 1673 Informational Message(s)

A Total of 1673 Calm Hours Identified

******** FATAL ERROR MESSAGES ********

```
           ***  NONE  ***


********   WARNING MESSAGES   ********
           ***  NONE  ***


***********************************
*** ISCST3 Finishes Successfully ***
***********************************
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APPENDIX C

Development of Toxicity Criteria

APPENDIX C

DEVELOPMENT OF TOXICITY CRITERIA

BreitBurn Drill Site

Los Angeles, California

Chemical	Acute						Chronic							Cancer
	OEHHA REL[1] µg/m^3	NIOSH REL[2] µg/m^3	ACGIH TLV[3] µg/m^3	ATSDR MRL[4] µg/m^3	CA AAQS[5] µg/m^3	Surrogate[6]	OEHHA REL[1] µg/m^3	IRIS RfC[7] µg/m^3	U.S. EPA PRG[8] µg/m^3	HEAST RfC[9] µg/m^3	TPH Criteria Working Group[10] µg/m^3	ATSDR MRL[4] µg/m^3	Surrogate[6]	OEHHA[11] (mg/kg-day)$^{-1}$
Acetone	--	--	--	**62000**	--	--	--	--	--	--	--	**31000**	--	--
Benzene	**1,300**	--	--	160	--	--	**60**	--	--	--	--	--	--	0.1
Butane	--	1,900,000	**238,000**	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (Methyl Ethyl Ketone)	**13,000**	--	--	--	--	--	--	**5000**	--	--	--	--	--	--
Carbon Disulfide	**6,200**	--	--	--	--	--	**800**	--	--	--	--	--	--	--
Cumene	--	--	**24,600**	--	--	--	--	**400**	--	--	--	--	--	--
Cyclohexane	--	--	**34,400**	--	--	--	--	**6000**	--	--	--	--	--	--
Ethylbenzene	--	--	--	**4340**	--	--	**2000**	--	--	--	--	--	--	--
4-Ethyltoluene	**22,000**	--	--	--	--	o-xylene	**700**	--	--	--	--	--	o-xylene	--
Heptane	--	350,000	**163,900**	--	--	--	--	--	--	--	**18,400**	--	--	--
Hexane	--	**180,000**	--	--	--	--	--	**200**	--	--	--	--	--	--
2-Hexanone	--	--	**20,500**	--	--	methyl isobutyl ketone	--	**3000**	--	--	--	--	methyl isobutyl ketone	--
Total Methyl pentanes	--	**180,000**	--	--	--	hexane	--	--	--	--	**18,400**	--	--	--
2-Methyl butane	--	**180,000**	--	--	--	hexane	--	--	--	--	**18,400**	--	--	--
Methyl cyclohexane	--	--	**161,000**	--	--	--	--	--	--	**3000**	--	--	--	--
Methyl cyclopentane	--	--	**138,000**	--	--	methyl-cyclohexane	--	--	--	--	**18,400**	--	--	--
Pentane	--	350,000	**177,000**	--	--	--	--	--	--	--	**18,400**	--	--	--
2-Propanol	--	980,000	**49,100**	--	--	--	--	--	--	--	--	**32000**	acetone	--
Propylbenzene	--	--	--	**4910**	--	ethylbenzene	--	--	**140** r	--	--	--	--	--
Tetrachloroethene	**20,000**	--	--	1360	--	--	--	--	--	--	--	**270**	--	0.021
Tetrahydrofuran	--	--	**59,000**	--	--	--	--	--	**301**	--	--	--	--	--
Toluene	**37,000**	--	--	--	--	--	**300**	--	--	--	--	--	--	--
Trichloroethene	--	--	--	**10700**	--	--	**600**	--	--	--	--	--	--	0.007
1,2,4-Trimethylbenzene	--	--	**12,300**	--	--	--	--	--	**6**	--	--	--	--	--
1,3,5-Trimethylbenzene	--	--	**12,300**	--	--	--	--	--	**6**	--	--	--	--	--
Total Xylenes	**22,000**	--	--	4400	--	--	**700**	--	--	--	--	--	--	--

APPENDIX C

DEVELOPMENT OF TOXICITY CRITERIA

BreitBurn Drill Site

Los Angeles, California

Chemical	Acute						Chronic							Cancer
	OEHHA REL[1] µg/m^3	NIOSH REL[2] µg/m^3	ACGIH TLV[3] µg/m^3	ATSDR MRL[4] µg/m^3	CA AAQS[5] µg/m^3	Surrogate[6]	OEHHA REL[1] µg/m^3	IRIS RfC[7] µg/m^3	U.S. EPA PRG[8] µg/m^3	HEAST RfC[9] µg/m^3	TPH Criteria Working Group[10] µg/m^3	ATSDR MRL[4] µg/m^3	Surrogate[6]	OEHHA[11] (mg/kg-day)$^{-1}$
Associated With Diesel Emissions:														
Nitrogen Oxides	**470**	--	--	--	470	NO_2	**470**	--	--	--	--	--	--	--
Reactive Organic Gases	**13,000**	590,000	59,000	--	--	methyl ethyl ketone	**1000**	--	--	--	--	--	methyl ethyl ketone	--
Carbon Monoxide	**23,000**	--	--	--	10,000	--	**10,000**	--	--	--	--	--	subchronic	--
Sulfur Oxides	**660**	--	--	--	105	SO_2	**660**	--	--	--	--	--	--	--
Particulate Matter	--	--	--	--	**50,000**	--	**5**	--	--	--	--	--	--	1.1

Notes:

[1] Office of Environmental Health Hazard Assessment (OEHHA) Reference Exposure Limit (REL).

[2] National Institute for Occupational Safety and Health (NIOSH) Recommended Exposure Limit (REL).

[3] Threshold Limit Values (TLV), American Conference of Governmental Industrial Hygienists, 2004; TLV divided by 10 to derive screening value.

[4] Agency for Toxic Substances and Disease Registry (ATSDR) Minimum Risk Levels (MRL).

[5] California Ambient Air Quality Standard (AAQS); 24 hour value used when available, if unavailable, 1 hour value used. California Air Resources Board.

[6] Surrogate chemical used to evaluate toxicity.

[7] Integrated Risk Information System (IRIS) Database, Reference Concentration (RfC), U.S. EPA, 2005.

[8] U.S. Environmental Protection Agency (EPA) Region 9 Preliminary Remediation Goal (PRG), 2004; inhalation reference dose.

[9] U.S. EPA Health Effects Assessment Summary Tables (HEAST), Reference Concentration (RfC), 1997.

[10] Total Petroleum Hydrocarbon Working Group Series, volume 4, Development of Fraction Specific Reference Doses (RfDs) and Reference Concentration (RfCs) for Total Petroleum Hydrocarbons (TPH), 1997.

[11] OEHHA Inhalation Unit Risks.

Bold Value Used Health Risk Assessment

Definitions:

r = route extrapolation from oral reference dose

-- = not available or not applicable

APPENDIX D

Chronic Noncarcinogenic Hazard Indexes for Off-Site Receptors

APPENDIX D

CHRONIC NONCARCINOGENIC HAZARD INDEXES FOR OFF-SITE RECEPTORS

BreitBurn Drill Site

Los Angeles, California

Receptor ID	X-Coor (UTM m)	Y-Coor (UTM m)	Acetone	Benzene	Butane	C5-C8 Hydrocarbons[1]	2-Butanone (Methyl Ethyl Ketone)	Carbon Disulfide	Cumene	Cyclohexane	Ethyl Benzene	4-Ethyltoluene	Hexane	2-Hexanone	Methyl cyclohexane	2-Propanol	Propylbenzene	Tetra-chloroethene	Tetra-hydrofuran	Toluene	Trichloroethene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Total Xylenes	Nitrogen Oxides	Reactive Organic Gases	Carbon Monoxide	Sulfur Oxides	Particulate Matter	Total Hazard Index[2]
Reference Concentration (RfC) (µg/m^3)			31,000	60	NA	18,400	5,000	800	400	6,000	2,000	200	200	3,000	3,000	32,000	140	270	301	300	600	6	6	700	470	1,000	10,000	660	5	
773	371816	3769020	7.02E-08	3.55E-03	NA	1.04E-03	1.23E-06	1.59E-05	3.80E-05	8.13E-05	8.22E-06	1.78E-04	6.13E-03	1.69E-05	2.93E-04	5.80E-07	1.10E-04	9.01E-05	3.08E-05	6.69E-04	2.75E-05	5.52E-03	3.16E-03	1.16E-04	3.51E-04	9.54E-06	5.69E-06	2.61E-06	1.09E-03	2.25E-02
772	371791	3769020	3.94E-08	2.50E-03	NA	7.31E-04	8.51E-07	1.12E-05	2.66E-05	5.69E-05	5.40E-06	1.22E-04	4.30E-03	1.19E-05	2.04E-04	4.06E-07	7.60E-05	6.22E-05	2.14E-05	4.64E-04	1.93E-05	3.81E-03	2.18E-03	7.75E-05	5.83E-04	1.58E-05	9.45E-06	4.33E-06	1.81E-03	1.71E-02
815	371816	3769045	8.59E-08	2.45E-03	NA	7.15E-04	8.85E-07	1.10E-05	2.67E-05	5.70E-05	7.08E-06	1.35E-04	4.25E-03	1.17E-05	2.12E-04	4.05E-07	8.07E-05	6.65E-05	2.20E-05	4.83E-04	1.91E-05	4.07E-03	2.35E-03	9.65E-05	3.48E-04	9.45E-06	5.64E-06	2.58E-06	1.08E-03	1.65E-02
1785	371795	3769008	3.14E-08	2.04E-03	NA	5.99E-04	6.97E-07	9.17E-06	2.18E-05	4.66E-05	4.39E-06	9.96E-05	3.53E-03	9.73E-06	1.67E-04	3.33E-07	6.22E-05	5.08E-05	1.75E-05	3.80E-04	1.58E-05	3.11E-03	1.78E-03	6.31E-05	3.80E-04	1.03E-05	6.17E-06	2.83E-06	1.18E-03	1.36E-02
814	371791	3769045	4.83E-08	2.13E-03	NA	6.22E-04	7.41E-07	9.55E-06	2.28E-05	4.88E-05	5.16E-06	1.09E-04	3.67E-03	1.01E-05	1.77E-04	3.48E-07	6.67E-05	5.47E-05	1.86E-05	4.04E-04	1.65E-05	3.35E-03	1.92E-03	7.24E-05	2.80E-04	7.62E-06	4.55E-06	2.08E-06	8.70E-04	1.39E-02
731	371816	3768995	3.75E-08	2.36E-03	NA	6.92E-04	8.06E-07	1.06E-05	2.51E-05	5.38E-05	5.12E-06	1.15E-04	4.07E-03	1.12E-05	1.93E-04	3.85E-07	7.20E-05	5.89E-05	2.03E-05	4.39E-04	1.82E-05	3.61E-03	2.06E-03	7.35E-05	1.73E-04	4.70E-06	2.80E-06	1.28E-06	5.36E-04	1.46E-02
816	371841	3769045	9.57E-08	1.97E-03	NA	5.71E-04	7.36E-07	8.86E-06	2.17E-05	4.63E-05	6.69E-06	1.17E-04	3.41E-03	9.39E-06	1.76E-04	3.28E-07	6.80E-05	5.63E-05	1.82E-05	4.02E-04	1.54E-05	3.45E-03	2.00E-03	8.89E-05	2.49E-04	6.76E-06	4.04E-06	1.85E-06	7.73E-04	1.35E-02
774	371841	3769020	6.09E-08	1.99E-03	NA	5.81E-04	7.09E-07	8.95E-06	2.16E-05	4.61E-05	5.42E-06	1.07E-04	3.44E-03	9.50E-06	1.70E-04	3.28E-07	6.44E-05	5.30E-05	1.77E-05	3.87E-04	1.55E-05	3.25E-03	1.87E-03	7.45E-05	2.04E-04	5.55E-06	3.31E-06	1.52E-06	6.34E-04	1.30E-02
1784	371795	3769001.75	2.85E-08	1.86E-03	NA	5.44E-04	6.33E-07	8.33E-06	1.98E-05	4.23E-05	3.99E-06	9.05E-05	3.20E-03	8.84E-06	1.51E-04	3.03E-07	5.65E-05	4.62E-05	1.59E-05	3.45E-04	1.44E-05	2.83E-03	1.62E-03	5.74E-05	2.06E-04	5.60E-06	3.34E-06	1.53E-06	6.40E-04	1.18E-02
858	371841	3769070	1.07E-07	1.51E-03	NA	4.34E-04	5.97E-07	6.80E-06	1.70E-05	3.62E-05	6.38E-06	9.99E-05	2.62E-03	7.20E-06	1.43E-04	2.55E-07	5.62E-05	4.69E-05	1.46E-05	3.27E-04	1.18E-05	2.88E-03	1.68E-03	8.24E-05	2.01E-04	5.48E-06	3.27E-06	1.50E-06	6.26E-04	1.08E-02
857	371816	3769070	8.53E-08	1.48E-03	NA	4.29E-04	5.68E-07	6.68E-06	1.65E-05	3.51E-05	5.54E-06	9.21E-05	2.57E-03	7.08E-06	1.36E-04	2.49E-07	5.29E-05	4.39E-05	1.40E-05	3.10E-04	1.16E-05	2.69E-03	1.57E-03	7.26E-05	2.04E-04	5.54E-06	3.30E-06	1.51E-06	6.33E-04	1.04E-02
732	371841	3768995	3.15E-08	1.56E-03	NA	4.55E-04	5.38E-07	6.98E-06	1.67E-05	3.56E-05	3.63E-06	7.82E-05	2.68E-03	7.41E-06	1.29E-04	2.54E-07	4.83E-05	3.96E-05	1.35E-05	2.93E-04	1.20E-05	2.42E-03	1.39E-03	5.13E-05	1.58E-04	4.31E-06	2.57E-06	1.18E-06	4.92E-04	9.90E-03
813	371766	3769045	2.68E-08	1.50E-03	NA	4.40E-04	5.16E-07	6.74E-06	1.60E-05	3.43E-05	3.37E-06	7.44E-05	2.59E-03	7.15E-06	1.23E-04	2.45E-07	4.62E-05	3.78E-05	1.30E-05	2.81E-04	1.16E-05	2.31E-03	1.32E-03	4.80E-05	1.75E-04	4.76E-06	2.84E-06	1.30E-06	5.44E-04	9.61E-03
817	371866	3769045	8.52E-08	1.39E-03	NA	4.03E-04	5.39E-07	6.28E-06	1.56E-05	3.32E-05	5.39E-06	8.82E-05	2.42E-03	6.66E-06	1.29E-04	2.34E-07	5.03E-05	4.19E-05	1.33E-05	2.95E-04	1.09E-05	2.57E-03	1.50E-03	7.04E-05	1.63E-04	4.42E-06	2.64E-06	1.21E-06	5.05E-04	9.72E-03
730	371716	3768995	2.21E-08	1.41E-03	NA	4.14E-04	4.82E-07	6.34E-06	1.51E-05	3.22E-05	3.05E-06	6.90E-05	2.44E-03	6.73E-06	1.15E-04	2.30E-07	4.31E-05	3.52E-05	1.21E-05	2.63E-04	1.09E-05	2.16E-03	1.23E-03	4.39E-05	1.50E-04	4.07E-06	2.43E-06	1.11E-06	4.65E-04	8.94E-03
859	371866	3769070	1.04E-07	1.27E-03	NA	3.66E-04	5.19E-07	5.76E-06	1.46E-05	3.09E-05	5.91E-06	8.89E-05	2.22E-03	6.10E-06	1.24E-04	2.18E-07	4.93E-05	4.12E-05	1.27E-05	2.84E-04	1.00E-05	2.53E-03	1.48E-03	7.55E-05	1.62E-04	4.41E-06	2.63E-06	1.20E-06	5.03E-04	9.30E-03
775	371866	3769020	5.30E-08	1.22E-03	NA	3.54E-04	4.49E-07	5.48E-06	1.34E-05	2.85E-05	3.90E-06	7.02E-05	2.11E-03	5.81E-06	1.08E-04	2.02E-07	4.13E-05	3.42E-05	1.11E-05	2.45E-04	9.49E-06	2.09E-03	1.21E-03	5.23E-05	1.44E-04	3.92E-06	2.34E-06	1.07E-06	4.47E-04	8.22E-03
769	371716	3769020	2.06E-08	1.21E-03	NA	3.55E-04	4.15E-07	5.44E-06	1.29E-05	2.77E-05	2.68E-06	5.97E-05	2.09E-03	5.77E-06	9.93E-05	1.98E-07	3.71E-05	3.04E-05	1.04E-05	2.26E-04	9.37E-06	1.86E-03	1.06E-03	3.83E-05	1.38E-04	3.74E-06	2.23E-06	1.02E-06	4.28E-04	7.72E-03
856	371791	3769070	4.86E-08	1.15E-03	NA	3.35E-04	4.24E-07	5.18E-06	1.26E-05	2.69E-05	3.64E-06	6.59E-05	1.99E-03	5.49E-06	1.01E-04	1.91E-07	3.89E-05	3.21E-05	1.05E-05	2.31E-04	8.97E-06	1.97E-03	1.14E-03	4.89E-05	1.55E-04	4.21E-06	2.51E-06	1.15E-06	4.81E-04	7.83E-03
692	371816	3768970	1.88E-08	1.22E-03	NA	3.56E-04	4.15E-07	5.45E-06	1.29E-05	2.77E-05	2.62E-06	5.93E-05	2.10E-03	5.79E-06	9.92E-05	1.98E-07	3.70E-05	3.03E-05	1.04E-05	2.26E-04	9.40E-06	1.85E-03	1.06E-03	3.76E-05	9.33E-05	2.54E-06	1.51E-06	6.93E-07	2.90E-04	7.54E-03
900	371841	3769095	9.73E-08	1.06E-03	NA	3.04E-04	4.43E-07	4.80E-06	1.23E-05	2.60E-05	5.33E-06	7.75E-05	1.85E-03	5.08E-06	1.06E-04	1.82E-07	4.24E-05	3.55E-05	1.08E-05	2.43E-04	8.39E-06	2.18E-03	1.28E-03	6.75E-05	1.38E-04	3.74E-06	2.23E-06	1.02E-06	4.28E-04	7.90E-03
733	371866	3768995	2.91E-08	1.04E-03	NA	3.05E-04	3.69E-07	4.69E-06	1.13E-05	2.41E-05	2.74E-06	5.50E-05	1.80E-03	4.97E-06	8.83E-05	1.72E-07	3.34E-05	2.75E-05	9.22E-06	2.01E-04	8.10E-06	1.68E-03	9.67E-04	3.79E-05	1.27E-04	3.47E-06	2.07E-06	9.47E-07	3.96E-04	6.84E-03
901	371866	3769095	1.04E-07	1.02E-03	NA	2.92E-04	4.38E-07	4.64E-06	1.20E-05	2.53E-05	5.53E-06	7.81E-05	1.79E-03	4.91E-06	1.05E-04	1.77E-07	4.22E-05	3.55E-05	1.06E-05	2.40E-04	8.12E-06	2.18E-03	1.29E-03	6.96E-05	1.30E-04	3.52E-06	2.10E-06	9.63E-07	4.03E-04	7.75E-03
812	371741	3769045	1.90E-08	1.02E-03	NA	2.98E-04	3.51E-07	4.57E-06	1.09E-05	2.33E-05	2.31E-06	5.07E-05	1.76E-03	4.85E-06	8.39E-05	1.66E-07	3.14E-05	2.57E-05	8.80E-06	1.91E-04	7.88E-06	1.58E-03	9.02E-04	3.29E-05	1.13E-04	3.07E-06	1.83E-06	8.39E-07	3.51E-04	6.50E-03
860	371891	3769070	8.94E-08	9.95E-04	NA	2.85E-04	4.14E-07	4.50E-06	1.15E-05	2.43E-05	4.93E-06	7.21E-05	1.74E-03	4.77E-06	9.90E-05	1.71E-07	3.95E-05	3.31E-05	1.01E-05	2.27E-04	7.86E-06	2.03E-03	1.20E-03	6.25E-05	1.19E-04	3.23E-06	1.93E-06	8.83E-07	3.69E-04	7.34E-03
855	371766	3769070	3.01E-08	9.50E-04	NA	2.77E-04	3.39E-07	4.27E-06	1.03E-05	2.20E-05	2.62E-06	5.12E-05	1.64E-03	4.53E-06	8.12E-05	1.57E-07	3.08E-05	2.54E-05	8.46E-06	1.85E-04	7.38E-06	1.56E-03	8.96E-04	3.60E-05	1.31E-04	3.56E-06	2.12E-06	9.73E-07	4.07E-04	6.33E-03
729	371691	3768995	2.01E-08	1.01E-03	NA	2.96E-04	3.50E-07	4.55E-06	1.08E-05	2.32E-05	2.35E-06	5.08E-05	1.75E-03	4.82E-06	8.37E-05	1.66E-07	3.14E-05	2.57E-05	8.78E-06	1.91E-04	7.84E-06	1.58E-03	9.02E-04	3.33E-05	1.06E-04	2.90E-06	1.73E-06	7.91E-07	3.31E-04	6.46E-03
770	371741	3769020	1.32E-08	8.59E-04	NA	2.52E-04	2.93E-07	3.85E-06	9.14E-06	1.96E-05	1.84E-06	4.19E-05	1.48E-03	4.09E-06	7.00E-05	1.40E-07	2.61E-05	2.14E-05	7.36E-06	1.60E-04	6.64E-06	1.31E-03	7.48E-04	2.65E-05	1.62E-04	4.39E-06	2.62E-06	1.20E-06	5.02E-04	5.72E-03
818	371891	3769045	6.96E-08	9.52E-04	NA	2.74E-04	3.80E-07	4.30E-06	1.08E-05	2.29E-05	4.11E-06	6.39E-05	1.66E-03	4.55E-06	9.08E-05	1.61E-07	3.58E-05	2.99E-05	9.29E-06	2.08E-04	7.48E-06	1.83E-03	1.07E-03	5.30E-05	1.11E-04	3.02E-06	1.80E-06	8.26E-07	3.45E-04	6.80E-03
899	371816	3769095	7.40E-08	9.14E-04	NA	2.63E-04	3.72E-07	4.13E-06	1.05E-05	2.21E-05	4.22E-06	6.36E-05	1.59E-03	4.37E-06	8.89E-05	1.56E-07	3.53E-05	2.95E-05	9.07E-06	2.04E-04	7.20E-06	1.81E-03	1.06E-03	5.40E-05	1.17E-04	3.17E-06	1.89E-06	8.67E-07	3.62E-04	6.66E-03
902	371891	3769095	9.66E-08	8.96E-04	NA	2.55E-04	3.89E-07	4.06E-06	1.05E-05	2.22E-05	5.04E-06	7.00E-05	1.57E-03	4.30E-06	9.30E-05	1.56E-07	3.76E-05	3.17E-05	9.39E-06	2.13E-04	7.12E-06	1.94E-03	1.15E-03	6.32E-05	1.09E-04	2.97E-06	1.77E-06	8.13E-07	3.40E-04	6.84E-03
650	371816	3768945	1.46E-08	9.33E-04	NA	2.73E-04	3.18E-07	4.18E-06	9.93E-06	2.13E-05	2.02E-06	4.56E-05	1.61E-03	4.44E-06	7.61E-05	1.52E-07	2.84E-05	2.32E-05	8.00E-06	1.73E-04	7.21E-06	1.42E-03	8.14E-04	2.90E-05	8.97E-05	2.44E-06	1.46E-06	6.67E-07	2.79E-04	5.86E-03
1783	371794	3768976.75	1.45E-08	9.47E-04	NA	2.77E-04	3.23E-07	4.25E-06	1.01E-05	2.16E-05	2.03E-06	4.61E-05	1.63E-03	4.51E-06	7.72E-05	1.54E-07	2.88E-05	2.36E-05	8.12E-06	1.76E-04	7.32E-06	1.44E-03	8.24E-04	2.93E-05	7.43E-05	2.02E-06	1.20E-06	5.52E-07	2.31E-04	5.87E-03
776	371891	3769020	4.55E-08	8.42E-04	NA	2.44E-04	3.20E-07	3.79E-06	9.36E-06	1.99E-05	3.03E-06	5.14E-05	1.46E-03	4.02E-06	7.65E-05	1.41E-07	2.97E-05	2.46E-05	7.89E-06	1.75E-04	6.58E-06	1.51E-03	8.78E-04	4.00E-05	1.07E-04	2.91E-06	1.74E-06	7.95E-07	3.32E-04	5.83E-03
693	371841	3768970	1.57E-08	9.08E-04	NA	2.66E-04	3.11E-07	4.07E-06	9.68E-06	2.07E-05	2.02E-06	4.48E-05	1.57E-03	4.32E-06	7.44E-05	1.48E-07	2.78E-05	2.28E-05	7.81E-06	1.70E-04	7.02E-06	1.39E-03	7.98E-04	2.88E-05	8.04E-05	2.19E-06	1.30E-06	5.98E-07	2.50E-04	5.69E-03
771	371766	3769020	1.02E-08	6.67E-04	NA	1.95E-04	2.27E-07	2.99E-06	7.10E-06	1.52E-05	1.43E-06	3.25E-05	1.15E-03	3.18E-06	5.44E-05	1.09E-07	2.03E-05	1.66E-05	5.72E-06	1.24E-04	5.16E-06	1.02E-03	5.81E-04	2.06E-05	1.65E-04	4.49E-06	2.68E-06	1.23E-06	5.13E-04	4.61E-03
1788	371736	3769009	9.48E-09	6.18E-04	NA	1.81E-04	2.10E-07	2.77E-06	6.57E-06	1.41E-05	1.33E-06	3.01E-05	1.07E-03	2.94E-06	5.04E-05	1.01E-07	1.88E-05	1.54E-05	5.29E-06	1.15E-04	4.77E-06	9.41E-04	5.38E-04	1.91E-05	1.81E-04	4.92E-06	2.94E-06	1.35E-06	5.62E-04	4.38E-03
768	371691	3769020	1.95E-08	8.05E-04	NA	2.35E-04	2.81E-07	3.61E-06	8.65E-06	1.85E-05	2.00E-06	4.15E-05	1.39E-03	3.83E-06	6.73E-05	1.32E-07	2.54E-05	2.08E-05	7.05E-06	1.54E-04	6.24E-06	1.28E-03	7.33E-04	2.79E-05	1.02E-04	2.79E-06	1.66E-06	7.61E-07	3.18E-04	5.25E-03
943	371866	3769120	9.27E-08	7.86E-04	NA	2.24E-04	3.49E-07	3.57E-06	9.35E-06	1.97E-05	4.73E-06	6.40E-05	1.38E-03	3.78E-06	8.36E-05	1.38E-07	3.40E-05	2.87E-05	8.41E-06	1.92E-04	6.27E-06	1.76E-03	1.04E-03	5.89E-05	9.61E-05	2.61E-06	1.56E-06	7.15E-07	2.99E-04	6.11E-03
898	371791	3769095	4.82E-08	7.66E-04	NA	2.21E-04	2.98E-07	3.45E-06	8.59E-06	1.83E-05	3.02E-06	4.89E-05	1.33E-03	3.66E-06	7.12E-05	1.29E-07	2.78E-05	2.32E-05	7.32E-06	1.63E-04	6.00E-06	1.42E-03	8.29E-04	3.93E-05	1.04E-04	2.84E-06	1.69E-06	7.75E-07	3.24E-04	5.43E-03
811	371716	3769045	1.85E-08	7.76E-04	NA	2.27E-04	2.71E-07	3.48E-06	8.34E-06	1.78E-05	1.92E-06	3.99E-05	1.34E-03	3.70E-06	6.49E-05	1.27E-07	2.44E-05	2.00E-05	6.79E-06	1.48E-04	6.01E-06	1.23E-03	7.05E-04	2.68E-05	9.82E-05	2.67E-06	1.59E-06	7.30E-07	3.05E-04	5.06E-03
734	371891	3768995	2.74E-08	7.65E-04	NA	2.23E-04	2.77E-07	3.44E-06	8.34E-06	1.78E-05	2.23E-06	4.23E-05	1.32E-03	3.65E-06	6.62E-05	1.26E-07	2.52E-05	2.08E-05	6.88E-06	1.51E-04	5.95E-06	1.28E-03	7.36E-04	3.04E-05	9.91E-05	2.69E-06	1.61E-06	7.36E-07	3.08E-04	5.12E-03
1789	371736	3768984	1.14E-08	7.44E-04	NA	2.18E-04	2.53E-07	3.33E-06	7.91E-06	1.69E-05	1.60E-06	3.62E-05	1.28E-03	3.54E-06	6.06E-05	1.21E-07	2.26E-05	1.85E-05	6.37E-06	1.38E-04	5.75E-06	1.13E-03	6.47E-04	2.30E-05	1.00E-04	2.73E-06	1.63E-06	7.45E-07	3.11E-04	4.79E-03
861	371916	3769070	7.40E-08	7.56E-04	NA	2.16E-04	3.20E-07	3.42E-06	8.80E-06	1.86E-05	3.97E-06	5.67E-05	1.32E-03	3.62E-06	7.66E-05	1.30E-07	3.08E-05	2.59E-05	7.77E-06	1.76E-04	5.99E-06	1.59E-03	9.36E-04	5.01E-05	8.73E-05	2.37E-06	1.42E-06	6.49E-07	2.71E-04	5.65E-03
944	371891	3769120	9.22E-08	7.46E-04	NA	2.12E-04	3.36E-07	3.39E-06	8.92E-06	1.88E-05	4.64E-06	6.21E-05	1.31E-03	3.58E-06	8.03E-05	1.31E-07	3.28E-05	2.77E-05	8.06E-06	1.84E-04	5.95E-06	1.70E-03	1.01E-03	5.77E-05	8.87E-05	2.41E-06	1.44E-06	6.59E-07	2.76E-04	5.84E-03
903	371916	3769095	8.40E-08	7.49E-04	NA	2.13E-04	3.28E-07	3.40E-06	8.86E-06	1.87E-05	4.34E-06	5.96E-05	1.31E-03	3.60E-06	7.86E-05	1.31E-07	3.18E-05	2.68E-05	7.92E-06	1.80E-04	5.96E-06	1.65E-03	9.75E-04	5.43E-05	8.77E-05	2.38E-06	1.42E-06	6.51E-07	2.72E-04	5.75E-03
688	371716	3768970	1.24E-08	7.91E-04	NA	2.32E-04	2.70E-07	3.55E-06	8.42E-06	1.80E-05	1.71E-06	3.86E-05	1.36E-03	3.77E-06	6.46E-05	1.29E-07	2.41E-05	1.97E-05	6.79E-06	1.47E-04	6.11E-06	1.21E-03	6.90E-04	2.46E-05	6.67E-05	1.81E-06	1.08E-06	4.96E-07	2.07E-04	4.93E-03
942	371841	3769120	8.02E-08	7.24E-04	NA	2.06E-04	3.16E-07	3.28E-06	8.54E-06	1.80E-05	4.15E-06	5.73E-05	1.27E-03	3.47E-06	7.57E-05	1.26E-07	3.06E-05	2.58E-05	7.63E-06	1.73E-04	5.75E-06	1.58E-03	9.38E-04	5.20E-05	8.84E-05	2.40E-06	1.43E-06	6.57E-07	2.74E-04	5.55E-03

APPENDIX D

CHRONIC NONCARCINOGENIC HAZARD INDEXES FOR OFF-SITE RECEPTORS

BreitBurn Drill Site

Los Angeles, California

Receptor ID	X-Coor (UTM m)	Y-Coor (UTM m)	Acetone	Benzene	Butane	C5-C8 Hydrocarbons[1]	2-Butanone (Methyl Ethyl Ketone)	Carbon Disulfide	Cumene	Cyclohexane	Ethyl Benzene	4-Ethyltoluene	Hexane	2-Hexanone	Methyl cyclohexane	2-Propanol	Propylbenzene	Tetra-chloroethene	Tetra-hydrofuran	Toluene	Trichloroethene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Total Xylenes	Nitrogen Oxides	Reactive Organic Gases	Carbon Monoxide	Sulfur Oxides	Particulate Matter	Total Hazard Index[2]
694	371866	3768970	1.59E-08	7.34E-04	NA	2.15E-04	2.55E-07	3.29E-06	7.87E-06	1.68E-05	1.75E-06	3.72E-05	1.27E-03	3.50E-06	6.10E-05	1.20E-07	2.29E-05	1.88E-05	6.39E-06	1.39E-04	5.68E-06	1.15E-03	6.60E-04	2.47E-05	7.22E-05	1.96E-06	1.17E-06	5.36E-07	2.24E-04	4.68E-03
897	371766	3769095	3.35E-08	6.70E-04	NA	1.94E-04	2.52E-07	3.02E-06	7.41E-06	1.58E-05	2.31E-06	4.00E-05	1.16E-03	3.20E-06	6.02E-05	1.12E-07	2.33E-05	1.93E-05	6.22E-06	1.37E-04	5.23E-06	1.18E-03	6.86E-04	3.07E-05	9.41E-05	2.56E-06	1.53E-06	6.99E-07	2.92E-04	4.64E-03
854	371741	3769070	2.22E-08	7.01E-04	NA	2.04E-04	2.51E-07	3.15E-06	7.60E-06	1.62E-05	1.94E-06	3.78E-05	1.21E-03	3.34E-06	5.99E-05	1.16E-07	2.28E-05	1.87E-05	6.25E-06	1.37E-04	5.45E-06	1.15E-03	6.61E-04	2.66E-05	8.18E-05	2.22E-06	1.33E-06	6.08E-07	2.54E-04	4.62E-03
819	371916	3769045	5.71E-08	6.92E-04	NA	1.99E-04	2.83E-07	3.13E-06	7.93E-06	1.68E-05	3.23E-06	4.85E-05	1.21E-03	3.31E-06	6.76E-05	1.18E-07	2.68E-05	2.25E-05	6.89E-06	1.55E-04	5.46E-06	1.38E-03	8.09E-04	4.13E-05	8.28E-05	2.25E-06	1.34E-06	6.15E-07	2.57E-04	5.04E-03
649	371791	3768945	1.17E-08	7.59E-04	NA	2.22E-04	2.59E-07	3.40E-06	8.08E-06	1.73E-05	1.63E-06	3.70E-05	1.31E-03	3.61E-06	6.19E-05	1.24E-07	2.31E-05	1.89E-05	6.50E-06	1.41E-04	5.86E-06	1.16E-03	6.61E-04	2.35E-05	5.49E-05	1.49E-06	8.91E-07	4.08E-07	1.70E-04	4.69E-03
1782	371791	3768974	1.09E-08	7.09E-04	NA	2.08E-04	2.42E-07	3.18E-06	7.55E-06	1.62E-05	1.52E-06	3.45E-05	1.22E-03	3.37E-06	5.78E-05	1.15E-07	2.16E-05	1.76E-05	6.08E-06	1.32E-04	5.48E-06	1.08E-03	6.17E-04	2.19E-05	6.98E-05	1.90E-06	1.13E-06	5.19E-07	2.17E-04	4.46E-03
945	371916	3769120	8.54E-08	6.72E-04	NA	1.91E-04	3.05E-07	3.06E-06	8.07E-06	1.70E-05	4.27E-06	5.66E-05	1.18E-03	3.23E-06	7.29E-05	1.18E-07	2.98E-05	2.52E-05	7.32E-06	1.67E-04	5.37E-06	1.55E-03	9.19E-04	5.30E-05	7.81E-05	2.12E-06	1.27E-06	5.81E-07	2.43E-04	5.29E-03
687	371691	3768970	1.44E-08	7.19E-04	NA	2.10E-04	2.48E-07	3.23E-06	7.69E-06	1.65E-05	1.67E-06	3.61E-05	1.24E-03	3.42E-06	5.94E-05	1.18E-07	2.23E-05	1.83E-05	6.23E-06	1.35E-04	5.56E-06	1.12E-03	6.41E-04	2.37E-05	6.26E-05	1.70E-06	1.02E-06	4.65E-07	1.94E-04	4.53E-03
728	371666	3768995	2.07E-08	6.72E-04	NA	1.96E-04	2.40E-07	3.02E-06	7.28E-06	1.56E-05	1.83E-06	3.61E-05	1.16E-03	3.20E-06	5.73E-05	1.11E-07	2.17E-05	1.79E-05	5.98E-06	1.31E-04	5.22E-06	1.10E-03	6.32E-04	2.52E-05	7.61E-05	2.07E-06	1.23E-06	5.66E-07	2.36E-04	4.41E-03
777	371916	3769020	3.93E-08	6.36E-04	NA	1.84E-04	2.46E-07	2.87E-06	7.13E-06	1.51E-05	2.48E-06	4.04E-05	1.11E-03	3.04E-06	5.90E-05	1.07E-07	2.30E-05	1.92E-05	6.06E-06	1.35E-04	4.98E-06	1.17E-03	6.85E-04	3.23E-05	8.29E-05	2.25E-06	1.34E-06	6.16E-07	2.57E-04	4.48E-03
1787	371745	3769009	5.82E-09	3.79E-04	NA	1.11E-04	1.29E-07	1.70E-06	4.04E-06	8.65E-06	8.15E-07	1.85E-05	6.54E-04	1.81E-06	3.09E-05	6.18E-08	1.15E-05	9.44E-06	3.25E-06	7.05E-05	2.93E-06	5.78E-04	3.30E-04	1.17E-05	1.75E-04	4.75E-06	2.83E-06	1.30E-06	5.42E-04	2.95E-03
1778	371736	3768977.75	9.80E-09	6.38E-04	NA	1.87E-04	2.18E-07	2.86E-06	6.79E-06	1.45E-05	1.37E-06	3.11E-05	1.10E-03	3.04E-06	5.20E-05	1.04E-07	1.94E-05	1.59E-05	5.47E-06	1.19E-04	4.93E-06	9.72E-04	5.56E-04	1.97E-05	7.26E-05	1.97E-06	1.18E-06	5.39E-07	2.25E-04	4.05E-03
1790	371736	3768977.75	9.80E-09	6.38E-04	NA	1.87E-04	2.18E-07	2.86E-06	6.79E-06	1.45E-05	1.37E-06	3.11E-05	1.10E-03	3.04E-06	5.20E-05	1.04E-07	1.94E-05	1.59E-05	5.47E-06	1.19E-04	4.93E-06	9.72E-04	5.56E-04	1.97E-05	7.26E-05	1.97E-06	1.18E-06	5.39E-07	2.25E-04	4.05E-03
941	371816	3769120	6.15E-08	6.16E-04	NA	1.76E-04	2.62E-07	2.79E-06	7.19E-06	1.52E-05	3.28E-06	4.66E-05	1.08E-03	2.95E-06	6.28E-05	1.06E-07	2.52E-05	2.12E-05	6.36E-06	1.44E-04	4.88E-06	1.30E-03	7.68E-04	4.14E-05	7.62E-05	2.07E-06	1.24E-06	5.66E-07	2.37E-04	4.64E-03
651	371841	3768945	1.05E-08	6.15E-04	NA	1.80E-04	2.11E-07	2.76E-06	6.56E-06	1.40E-05	1.36E-06	3.03E-05	1.06E-03	2.93E-06	5.04E-05	1.00E-07	1.88E-05	1.54E-05	5.29E-06	1.15E-04	4.75E-06	9.44E-04	5.40E-04	1.94E-05	7.72E-05	2.10E-06	1.25E-06	5.74E-07	2.40E-04	3.95E-03
810	371691	3769045	2.06E-08	6.05E-04	NA	1.76E-04	2.17E-07	2.72E-06	6.57E-06	1.40E-05	1.73E-06	3.31E-05	1.05E-03	2.88E-06	5.20E-05	9.98E-08	1.98E-05	1.63E-05	5.42E-06	1.19E-04	4.70E-06	1.00E-03	5.77E-04	2.35E-05	8.01E-05	2.18E-06	1.30E-06	5.96E-07	2.49E-04	4.04E-03
735	371916	3768995	2.57E-08	5.93E-04	NA	1.72E-04	2.19E-07	2.67E-06	6.51E-06	1.39E-05	1.90E-06	3.42E-05	1.03E-03	2.83E-06	5.23E-05	9.85E-08	2.01E-05	1.66E-05	5.43E-06	1.20E-04	4.62E-06	1.02E-03	5.90E-04	2.54E-05	7.81E-05	2.12E-06	1.27E-06	5.81E-07	2.43E-04	4.03E-03
986	371891	3769145	8.25E-08	6.06E-04	NA	1.71E-04	2.80E-07	2.76E-06	7.34E-06	1.54E-05	4.06E-06	5.29E-05	1.07E-03	2.92E-06	6.71E-05	1.07E-07	2.76E-05	2.34E-05	6.71E-06	1.54E-04	4.86E-06	1.43E-03	8.54E-04	5.02E-05	7.00E-05	1.90E-06	1.14E-06	5.20E-07	2.17E-04	4.84E-03
904	371941	3769095	7.07E-08	6.06E-04	NA	1.72E-04	2.68E-07	2.75E-06	7.19E-06	1.52E-05	3.61E-06	4.91E-05	1.06E-03	2.91E-06	6.42E-05	1.06E-07	2.61E-05	2.20E-05	6.46E-06	1.47E-04	4.82E-06	1.35E-03	8.01E-04	4.51E-05	6.83E-05	1.86E-06	1.11E-06	5.08E-07	2.12E-04	4.67E-03
767	371666	3769020	2.17E-08	5.84E-04	NA	1.70E-04	2.12E-07	2.62E-06	6.36E-06	1.36E-05	1.73E-06	3.25E-05	1.01E-03	2.78E-06	5.06E-05	9.65E-08	1.93E-05	1.59E-05	5.26E-06	1.16E-04	4.54E-06	9.77E-04	5.64E-04	2.35E-05	7.60E-05	2.07E-06	1.23E-06	5.65E-07	2.36E-04	3.92E-03
985	371866	3769145	7.75E-08	5.88E-04	NA	1.67E-04	2.70E-07	2.68E-06	7.10E-06	1.49E-05	3.84E-06	5.05E-05	1.03E-03	2.83E-06	6.45E-05	1.04E-07	2.64E-05	2.24E-05	6.46E-06	1.48E-04	4.71E-06	1.37E-03	8.17E-04	4.76E-05	6.87E-05	1.87E-06	1.11E-06	5.10E-07	2.13E-04	4.67E-03
946	371941	3769120	7.51E-08	5.83E-04	NA	1.65E-04	2.65E-07	2.65E-06	7.01E-06	1.47E-05	3.74E-06	4.95E-05	1.02E-03	2.80E-06	6.35E-05	1.03E-07	2.60E-05	2.20E-05	6.37E-06	1.46E-04	4.66E-06	1.35E-03	8.02E-04	4.64E-05	6.58E-05	1.79E-06	1.07E-06	4.89E-07	2.04E-04	4.59E-03
695	371891	3768970	1.65E-08	5.93E-04	NA	1.73E-04	2.10E-07	2.66E-06	6.40E-06	1.37E-05	1.55E-06	3.12E-05	1.02E-03	2.83E-06	5.01E-05	9.74E-08	1.90E-05	1.56E-05	5.24E-06	1.14E-04	4.60E-06	9.55E-04	5.49E-04	2.15E-05	6.38E-05	1.73E-06	1.03E-06	4.74E-07	1.98E-04	3.85E-03
940	371791	3769120	4.46E-08	5.56E-04	NA	1.60E-04	2.26E-07	2.51E-06	6.35E-06	1.35E-05	2.55E-06	3.85E-05	9.69E-04	2.66E-06	5.40E-05	9.48E-08	2.14E-05	1.79E-05	5.51E-06	1.24E-04	4.38E-06	1.10E-03	6.44E-04	3.26E-05	7.46E-05	2.03E-06	1.21E-06	5.54E-07	2.32E-04	4.06E-03
987	371916	3769145	8.09E-08	5.77E-04	NA	1.63E-04	2.69E-07	2.63E-06	7.02E-06	1.47E-05	3.95E-06	5.10E-05	1.02E-03	2.78E-06	6.44E-05	1.02E-07	2.65E-05	2.25E-05	6.43E-06	1.48E-04	4.63E-06	1.38E-03	8.23E-04	4.87E-05	6.54E-05	1.78E-06	1.06E-06	4.86E-07	2.03E-04	4.63E-03
862	371941	3769070	6.02E-08	5.77E-04	NA	1.65E-04	2.48E-07	2.62E-06	6.77E-06	1.43E-05	3.17E-06	4.45E-05	1.01E-03	2.77E-06	5.94E-05	1.00E-07	2.40E-05	2.02E-05	6.01E-06	1.36E-04	4.58E-06	1.24E-03	7.31E-04	3.99E-05	6.56E-05	1.78E-06	1.06E-06	4.88E-07	2.04E-04	4.36E-03
609	371841	3768920	1.01E-08	5.46E-04	NA	1.60E-04	1.88E-07	2.45E-06	5.83E-06	1.25E-05	1.24E-06	2.71E-05	9.42E-04	2.60E-06	4.49E-05	8.91E-08	1.68E-05	1.38E-05	4.71E-06	1.02E-04	4.22E-06	8.43E-04	4.83E-04	1.76E-05	6.63E-05	1.80E-06	1.08E-06	4.93E-07	2.06E-04	3.51E-03
853	371716	3769070	2.04E-08	5.30E-04	NA	1.54E-04	1.93E-07	2.38E-06	5.79E-06	1.23E-05	1.60E-06	2.97E-05	9.17E-04	2.53E-06	4.61E-05	8.77E-08	1.76E-05	1.46E-05	4.79E-06	1.05E-04	4.12E-06	8.92E-04	5.15E-04	2.16E-05	7.05E-05	1.92E-06	1.14E-06	5.24E-07	2.19E-04	3.57E-03
820	371941	3769045	4.70E-08	5.31E-04	NA	1.52E-04	2.20E-07	2.40E-06	6.13E-06	1.30E-05	2.60E-06	3.83E-05	9.27E-04	2.55E-06	5.27E-05	9.11E-08	2.10E-05	1.76E-05	5.36E-06	1.21E-04	4.20E-06	1.08E-03	6.36E-04	3.31E-05	6.43E-05	1.75E-06	1.04E-06	4.78E-07	2.00E-04	3.91E-03
896	371741	3769095	2.58E-08	5.25E-04	NA	1.52E-04	1.97E-07	2.37E-06	5.81E-06	1.24E-05	1.80E-06	3.13E-05	9.11E-04	2.51E-06	4.71E-05	8.77E-08	1.82E-05	1.51E-05	4.87E-06	1.08E-04	4.10E-06	9.24E-04	5.36E-04	2.39E-05	6.35E-05	1.73E-06	1.03E-06	4.72E-07	1.97E-04	3.59E-03
608	371816	3768920	9.46E-09	5.57E-04	NA	1.63E-04	1.91E-07	2.50E-06	5.93E-06	1.27E-05	1.23E-06	2.74E-05	9.60E-04	2.65E-06	4.56E-05	9.07E-08	1.70E-05	1.39E-05	4.79E-06	1.04E-04	4.30E-06	8.54E-04	4.89E-04	1.76E-05	5.17E-05	1.41E-06	8.40E-07	3.85E-07	1.61E-04	3.50E-03
988	371941	3769145	7.46E-08	5.26E-04	NA	1.49E-04	2.46E-07	2.40E-06	6.41E-06	1.35E-05	3.63E-06	4.68E-05	9.27E-04	2.53E-06	5.90E-05	9.36E-08	2.43E-05	2.06E-05	5.89E-06	1.35E-04	4.22E-06	1.27E-03	7.54E-04	4.48E-05	5.86E-05	1.59E-06	9.50E-07	4.35E-07	1.82E-04	4.24E-03
939	371766	3769120	3.37E-08	4.99E-04	NA	1.44E-04	1.96E-07	2.25E-06	5.62E-06	1.19E-05	2.05E-06	3.26E-05	8.67E-04	2.38E-06	4.69E-05	8.43E-08	1.84E-05	1.53E-05	4.81E-06	1.07E-04	3.91E-06	9.41E-04	5.50E-04	2.66E-05	6.90E-05	1.88E-06	1.12E-06	5.13E-07	2.14E-04	3.57E-03
686	371666	3768970	1.66E-08	5.45E-04	NA	1.59E-04	1.94E-07	2.45E-06	5.90E-06	1.26E-05	1.48E-06	2.92E-05	9.42E-04	2.60E-06	4.64E-05	8.97E-08	1.76E-05	1.45E-05	4.84E-06	1.06E-04	4.23E-06	8.88E-04	5.11E-04	2.04E-05	5.30E-05	1.44E-06	8.59E-07	3.94E-07	1.64E-04	3.53E-03
984	371841	3769145	6.51E-08	5.16E-04	NA	1.46E-04	2.34E-07	2.35E-06	6.19E-06	1.30E-05	3.26E-06	4.34E-05	9.07E-04	2.48E-06	5.59E-05	9.08E-08	2.28E-05	1.93E-05	5.61E-06	1.28E-04	4.12E-06	1.19E-03	7.04E-04	4.05E-05	5.99E-05	1.63E-06	9.72E-07	4.45E-07	1.86E-04	4.06E-03
778	371941	3769020	3.37E-08	5.01E-04	NA	1.44E-04	1.97E-07	2.26E-06	5.65E-06	1.20E-05	2.06E-06	3.27E-05	8.71E-04	2.39E-06	4.71E-05	8.46E-08	1.85E-05	1.54E-05	4.83E-06	1.08E-04	3.93E-06	9.45E-04	5.52E-04	2.67E-05	6.48E-05	1.76E-06	1.05E-06	4.82E-07	2.01E-04	3.56E-03
1779	371739	3768975	7.67E-09	5.00E-04	NA	1.46E-04	1.70E-07	2.24E-06	5.32E-06	1.14E-05	1.07E-06	2.43E-05	8.62E-04	2.38E-06	4.07E-05	8.14E-08	1.52E-05	1.24E-05	4.28E-06	9.28E-05	3.86E-06	7.61E-04	4.35E-04	1.54E-05	5.77E-05	1.57E-06	9.36E-07	4.29E-07	1.79E-04	3.18E-03
947	371966	3769120	6.52E-08	4.95E-04	NA	1.40E-04	2.27E-07	2.25E-06	5.97E-06	1.25E-05	3.23E-06	4.24E-05	8.69E-04	2.38E-06	5.42E-05	8.74E-08	2.22E-05	1.88E-05	5.43E-06	1.24E-04	3.96E-06	1.16E-03	6.87E-04	4.00E-05	5.43E-05	1.48E-06	8.82E-07	4.04E-07	1.69E-04	3.91E-03
809	371666	3769045	2.32E-08	4.80E-04	NA	1.39E-04	1.79E-07	2.16E-06	5.30E-06	1.13E-05	1.63E-06	2.84E-05	8.31E-04	2.29E-06	4.29E-05	8.00E-08	1.66E-05	1.37E-05	4.44E-06	9.80E-05	3.74E-06	8.41E-04	4.88E-04	2.16E-05	6.03E-05	1.64E-06	9.79E-07	4.48E-07	1.87E-04	3.28E-03
736	371941	3768995	2.38E-08	4.74E-04	NA	1.38E-04	1.78E-07	2.14E-06	5.25E-06	1.12E-05	1.64E-06	2.84E-05	8.23E-04	2.26E-06	4.26E-05	7.92E-08	1.65E-05	1.37E-05	4.41E-06	9.74E-05	3.70E-06	8.38E-04	4.86E-04	2.17E-05	6.21E-05	1.69E-06	1.01E-06	4.62E-07	1.93E-04	3.27E-03
696	371916	3768970	1.71E-08	4.90E-04	NA	1.43E-04	1.77E-07	2.20E-06	5.33E-06	1.14E-05	1.41E-06	2.69E-05	8.48E-04	2.34E-06	4.22E-05	8.09E-08	1.61E-05	1.33E-05	4.40E-06	9.64E-05	3.81E-06	8.13E-04	4.69E-04	1.92E-05	5.62E-05	1.53E-06	9.12E-07	4.18E-07	1.75E-04	3.24E-03
905	371966	3769095	5.93E-08	4.88E-04	NA	1.39E-04	2.18E-07	2.22E-06	5.82E-06	1.23E-05	3.00E-06	4.03E-05	8.56E-04	2.34E-06	5.23E-05	8.56E-08	2.13E-05	1.80E-05	5.25E-06	1.20E-04	3.89E-06	1.10E-03	6.55E-04	3.73E-05	5.38E-05	1.46E-06	8.73E-07	4.00E-07	1.67E-04	3.79E-03
1029	371916	3769170	7.27E-08	4.84E-04	NA	1.36E-04	2.31E-07	2.21E-06	5.95E-06	1.25E-05	3.50E-06	4.44E-05	8.53E-04	2.33E-06	5.52E-05	8.65E-08	2.29E-05	1.94E-05	5.50E-06	1.27E-04	3.89E-06	1.19E-03	7.12E-04	4.30E-05	5.34E-05	1.45E-06	8.66E-07	3.97E-07	1.66E-04	3.95E-03
727	371641	3768995	2.23E-08	4.80E-04	NA	1.39E-04	1.79E-07	2.16E-06	5.29E-06	1.13E-05	1.59E-06	2.81E-05	8.33E-04	2.29E-06	4.27E-05	8.00E-08	1.65E-05	1.36E-05	4.42E-06	9.76E-05	3.75E-06	8.36E-04	4.84E-04	2.12E-05	5.57E-05	1.51E-06	9.04E-07	4.14E-07	1.73E-04	3.25E-03
1028	371891	3769170	7.01E-08	4.79E-04	NA	1.35E-04	2.27E-07	2.18E-06	5.87E-06	1.23E-05	3.39E-06	4.33E-05	8.45E-04	2.31E-06	5.42E-05	8.55E-08	2.24E-05	1.90E-05	5.41E-06	1.24E-04	3.85E-06	1.17E-03	6.97E-04	4.17E-05	5.34E-05	1.45E-06	8.66E-07	3.97E-07	1.66E-04	3.89E-03
989	371966	3769145	6.68E-08	4.69E-04	NA	1.32E-04	2.20E-07	2.14E-06	5.72E-06	1.20E-05	3.25E-06	4.18E-05	8.25E-04	2.26E-06	5.26E-05	8.34E-08	2.17E-05	1.84E-05	5.25E-06	1.21E-04	3.76E-06	1.13E-03	6.74E-04	4.01E-05	5.11E-05	1.39E-06	8.30E-07	3.80E-07	1.59E-04	3.77E-03
983	371816	3769145	5.15E-08	4.56E-04	NA	1.30E-04	2.00E-07	2.07E-06	5.40E-06	1.14E-05	2.65E-06	3.64E-05	8.00E-04	2.19E-06	4.79E-05	7.96E-08	1.94E-05	1.64E-05	4.83E-06	1.10E-04	3.63E-06	1.01E-03	5.95E-04	3.32E-05	5.55E-05	1.51E-06	9.00E-07	4.12E-07	1.72E-04	3.51E-03
652	371866	3768945	9.33E-09	4.48E-04	NA	1.31E-04	1.55E-07	2.01E-06	4.80E-06	1.03E-05	1.05E-06	2.26E-05	7.73E-04	2.13E-06	3.71E-05	7.32E-08	1.39E-05	1.14E-05	3.89E-06	8.46E-05	3.47E-06	6.99E-04	4.01E-04	1.49E-05	5.84E-05	1.59E-06	9.48E-07	4.34E-07	1.81E-04	2.91E-03
852	371691	3769070	2.16E-08	4.48E-04	NA	1.30E-04	1.67E-07	2.02E-06	4.95E-06	1.05E-05	1.52E-06	2.65E-05	7.77E-04	2.14E-06	4.01E-05	7.47E-08	1.55E-05	1.28E-05	4.14E-06	9.15E-05	3.50E-06	7.85E-04	4.55E-04	2.02E-05	5.74E-05	1.56E-06	9.32E-07	4.27E-07	1.78E-04	3.07E-03
863	371966	3769070	5.00E-08	4.56E-04	NA	1.30E-04	1.99E-07	2.07E-06	5.38E-06	1.14E-05	2.60E-06	3.59E-05	7.99E-04	2.19E-06	4.76E-05	7.94E-08	1.92E-05	1.62E-05	4.80E-06	1.09E-04	3.63E-06	9.95E-04	5.89E-04	3.25E-05	5.18E-05	1.41E-06	8.41E-07	3.85E-07	1.61E-04	3.48E-03

APPENDIX D

CHRONIC NONCARCINOGENIC HAZARD INDEXES FOR OFF-SITE RECEPTORS

BreitBurn Drill Site

Los Angeles, California

Receptor ID	X-Coor (UTM m)	Y-Coor (UTM m)	Acetone	Benzene	Butane	C5-C8 Hydrocarbons[1]	2-Butanone (Methyl Ethyl Ketone)	Carbon Disulfide	Cumene	Cyclohexane	Ethyl Benzene	4-Ethyltoluene	Hexane	2-Hexanone	Methyl cyclohexane	2-Propanol	Propylbenzene	Tetra-chloroethene	Tetra-hydrofuran	Toluene	Trichloroethene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Total Xylenes	Nitrogen Oxides	Reactive Organic Gases	Carbon Monoxide	Sulfur Oxides	Particulate Matter	Total Hazard Index[2]
766	371641	3769020	2.35E-08	4.46E-04	NA	1.29E-04	1.69E-07	2.01E-06	4.95E-06	1.05E-05	1.59E-06	2.70E-05	7.74E-04	2.13E-06	4.04E-05	7.46E-08	1.56E-05	1.30E-05	4.17E-06	9.23E-05	3.49E-06	7.96E-04	4.63E-04	2.09E-05	5.63E-05	1.53E-06	9.13E-07	4.18E-07	1.75E-04	3.08E-03
1030	371941	3769170	6.98E-08	4.58E-04	NA	1.29E-04	2.19E-07	2.09E-06	5.64E-06	1.18E-05	3.35E-06	4.23E-05	8.08E-04	2.21E-06	5.25E-05	8.21E-08	2.18E-05	1.85E-05	5.23E-06	1.20E-04	3.69E-06	1.14E-03	6.78E-04	4.11E-05	4.97E-05	1.35E-06	8.07E-07	3.69E-07	1.54E-04	3.75E-03
691	371791	3768970	6.47E-09	4.21E-04	NA	1.23E-04	1.44E-07	1.89E-06	4.48E-06	9.60E-06	9.05E-07	2.05E-05	7.27E-04	2.01E-06	3.43E-05	6.86E-08	1.28E-05	1.05E-05	3.61E-06	7.83E-05	3.26E-06	6.42E-04	3.67E-04	1.30E-05	6.50E-05	1.77E-06	1.06E-06	4.83E-07	2.02E-04	2.75E-03
982	371791	3769145	4.01E-08	4.26E-04	NA	1.22E-04	1.79E-07	1.93E-06	4.94E-06	1.05E-05	2.18E-06	3.14E-05	7.44E-04	2.04E-06	4.28E-05	7.33E-08	1.71E-05	1.44E-05	4.35E-06	9.80E-05	3.37E-06	8.83E-04	5.20E-04	2.76E-05	5.58E-05	1.52E-06	9.06E-07	4.15E-07	1.73E-04	3.19E-03
1027	371866	3769170	6.31E-08	4.40E-04	NA	1.24E-04	2.07E-07	2.00E-06	5.37E-06	1.13E-05	3.07E-06	3.94E-05	7.75E-04	2.12E-06	4.95E-05	7.83E-08	2.04E-05	1.73E-05	4.94E-06	1.14E-04	3.53E-06	1.06E-03	6.34E-04	3.78E-05	4.89E-05	1.33E-06	7.94E-07	3.64E-07	1.52E-04	3.55E-03
821	371966	3769045	3.97E-08	4.28E-04	NA	1.23E-04	1.79E-07	1.94E-06	4.96E-06	1.05E-05	2.17E-06	3.14E-05	7.48E-04	2.05E-06	4.29E-05	7.36E-08	1.72E-05	1.44E-05	4.35E-06	9.82E-05	3.39E-06	8.83E-04	5.20E-04	2.74E-05	5.20E-05	1.41E-06	8.44E-07	3.87E-07	1.62E-04	3.18E-03
610	371866	3768920	9.04E-09	4.06E-04	NA	1.19E-04	1.41E-07	1.82E-06	4.36E-06	9.32E-06	9.78E-07	2.07E-05	7.02E-04	1.94E-06	3.38E-05	6.65E-08	1.27E-05	1.04E-05	3.54E-06	7.71E-05	3.15E-06	6.39E-04	3.66E-04	1.38E-05	5.72E-05	1.56E-06	9.29E-07	4.25E-07	1.78E-04	2.66E-03
779	371966	3769020	3.00E-08	4.13E-04	NA	1.19E-04	1.65E-07	1.87E-06	4.69E-06	9.95E-06	1.78E-06	2.77E-05	7.20E-04	1.98E-06	3.94E-05	7.01E-08	1.55E-05	1.30E-05	4.03E-06	9.01E-05	3.25E-06	7.95E-04	4.65E-04	2.29E-05	5.32E-05	1.45E-06	8.64E-07	3.96E-07	1.65E-04	2.97E-03

Notes:

[1] Includes emissions of heptane, total methylpentanes, pentane, methylbutane, methylcyclopentane.

[2] Sum; Hazard Index = concentration x exposure factor (1) / RfC

APPENDIX E

Carcinogenic Risk for Receptors where Risk is Greater than $1x10^{-6}$

APPENDIX E

CARCINOGENIC RISK FOR RECEPTORS WHERE RISK WAS GREATER THAN $1x10^{-6}$

BreitBurn Drill Site
Los Angeles, California

Receptor	X-Coor (UTM m)	Y-Coor (UTM m)	Benzene	Tetrachloroethene	Trichloroethene	Particulate Matter	TOTAL CANCER RISK
Exposure Factor[1]			2.9.E-04	2.9.E-04	2.9.E-04	2.9.E-04	--
Cancer Slope Factor(mg-kg/day)$^{-1}$			0.1	0.021	0.007	1.1	--
773	371815.9063	3769020	6.2E-06	1.5E-07	3.3E-08	1.7E-06	8.1E-06
772	371790.9063	3769020	4.3E-06	1.0E-07	2.3E-08	2.9E-06	7.3E-06
815	371815.9063	3769045	4.3E-06	1.1E-07	2.3E-08	1.7E-06	6.1E-06
1785	371794.625	3769008	3.6E-06	8.3E-08	1.9E-08	1.9E-06	5.5E-06
814	371790.9063	3769045	3.7E-06	9.0E-08	2.0E-08	1.4E-06	5.2E-06
731	371815.9063	3768995	4.1E-06	9.7E-08	2.2E-08	8.5E-07	5.1E-06
816	371840.9063	3769045	3.4E-06	9.3E-08	1.9E-08	1.2E-06	4.8E-06
774	371840.9063	3769020	3.5E-06	8.7E-08	1.9E-08	1.0E-06	4.6E-06
1784	371794.5313	3769001.75	3.2E-06	7.6E-08	1.7E-08	1.0E-06	4.3E-06
858	371840.9063	3769070	2.6E-06	7.7E-08	1.4E-08	1.0E-06	3.7E-06
857	371815.9063	3769070	2.6E-06	7.2E-08	1.4E-08	1.0E-06	3.7E-06
732	371840.9063	3768995	2.7E-06	6.5E-08	1.5E-08	7.8E-07	3.6E-06
813	371765.9063	3769045	2.6E-06	6.2E-08	1.4E-08	8.7E-07	3.6E-06
817	371865.9063	3769045	2.4E-06	6.9E-08	1.3E-08	8.0E-07	3.3E-06
730	371715.9063	3768995	2.5E-06	5.8E-08	1.3E-08	7.4E-07	3.3E-06
859	371865.9063	3769070	2.2E-06	6.8E-08	1.2E-08	8.0E-07	3.1E-06
775	371865.9063	3769020	2.1E-06	5.6E-08	1.2E-08	7.1E-07	2.9E-06
769	371715.9063	3769020	2.1E-06	5.0E-08	1.1E-08	6.8E-07	2.8E-06
856	371790.9063	3769070	2.0E-06	5.3E-08	1.1E-08	7.7E-07	2.8E-06
692	371815.9063	3768970	2.1E-06	5.0E-08	1.1E-08	4.6E-07	2.6E-06
900	371840.9063	3769095	1.8E-06	5.8E-08	1.0E-08	6.8E-07	2.6E-06
733	371865.9063	3768995	1.8E-06	4.5E-08	9.8E-09	6.3E-07	2.5E-06
901	371865.9063	3769095	1.8E-06	5.8E-08	9.9E-09	6.4E-07	2.5E-06
812	371740.9063	3769045	1.8E-06	4.2E-08	9.6E-09	5.6E-07	2.4E-06
860	371890.9063	3769070	1.7E-06	5.4E-08	9.6E-09	5.9E-07	2.4E-06
855	371765.9063	3769070	1.7E-06	4.2E-08	9.0E-09	6.5E-07	2.3E-06
729	371690.9063	3768995	1.8E-06	4.2E-08	9.5E-09	5.3E-07	2.3E-06
770	371740.9063	3769020	1.5E-06	3.5E-08	8.1E-09	8.0E-07	2.3E-06
818	371890.9063	3769045	1.7E-06	4.9E-08	9.1E-09	5.5E-07	2.3E-06
899	371815.9063	3769095	1.6E-06	4.8E-08	8.8E-09	5.8E-07	2.2E-06
902	371890.9063	3769095	1.6E-06	5.2E-08	8.7E-09	5.4E-07	2.2E-06
650	371815.9063	3768945	1.6E-06	3.8E-08	8.8E-09	4.4E-07	2.1E-06
1783	371794.0938	3768976.75	1.6E-06	3.9E-08	8.9E-09	3.7E-07	2.1E-06
776	371890.9063	3769020	1.5E-06	4.0E-08	8.0E-09	5.3E-07	2.0E-06
693	371840.9063	3768970	1.6E-06	3.7E-08	8.5E-09	4.0E-07	2.0E-06
771	371765.9063	3769020	1.2E-06	2.7E-08	6.3E-09	8.2E-07	2.0E-06
1788	371736.4688	3769009	1.1E-06	2.5E-08	5.8E-09	9.0E-07	2.0E-06

APPENDIX E

CARCINOGENIC RISK FOR RECEPTORS WHERE RISK WAS GREATER THAN $1x10^{-6}$

BreitBurn Drill Site
Los Angeles, California

Receptor	X-Coor (UTM m)	Y-Coor (UTM m)	Benzene	Tetrachloroethene	Trichloroethene	Particulate Matter	TOTAL CANCER RISK
768	371690.9063	3769020	1.4E-06	3.4E-08	7.6E-09	5.1E-07	1.9E-06
943	371865.9063	3769120	1.4E-06	4.7E-08	7.6E-09	4.8E-07	1.9E-06
898	371790.9063	3769095	1.3E-06	3.8E-08	7.3E-09	5.2E-07	1.9E-06
811	371715.9063	3769045	1.3E-06	3.3E-08	7.3E-09	4.9E-07	1.9E-06
734	371890.9063	3768995	1.3E-06	3.4E-08	7.2E-09	4.9E-07	1.9E-06
1789	371736.0313	3768984	1.3E-06	3.0E-08	7.0E-09	5.0E-07	1.8E-06
861	371915.9063	3769070	1.3E-06	4.2E-08	7.3E-09	4.3E-07	1.8E-06
944	371890.9063	3769120	1.3E-06	4.5E-08	7.2E-09	4.4E-07	1.8E-06
903	371915.9063	3769095	1.3E-06	4.4E-08	7.3E-09	4.3E-07	1.8E-06
688	371715.9063	3768970	1.4E-06	3.2E-08	7.4E-09	3.3E-07	1.7E-06
942	371840.9063	3769120	1.3E-06	4.2E-08	7.0E-09	4.4E-07	1.7E-06
694	371865.9063	3768970	1.3E-06	3.1E-08	6.9E-09	3.6E-07	1.7E-06
897	371765.9063	3769095	1.2E-06	3.2E-08	6.4E-09	4.7E-07	1.7E-06
854	371740.9063	3769070	1.2E-06	3.1E-08	6.6E-09	4.0E-07	1.7E-06
819	371915.9063	3769045	1.2E-06	3.7E-08	6.6E-09	4.1E-07	1.7E-06
649	371790.9063	3768945	1.3E-06	3.1E-08	7.1E-09	2.7E-07	1.6E-06
1782	371791.4688	3768974	1.2E-06	2.9E-08	6.7E-09	3.5E-07	1.6E-06
945	371915.9063	3769120	1.2E-06	4.1E-08	6.5E-09	3.9E-07	1.6E-06
687	371690.9063	3768970	1.2E-06	3.0E-08	6.8E-09	3.1E-07	1.6E-06
728	371665.9063	3768995	1.2E-06	2.9E-08	6.3E-09	3.8E-07	1.6E-06
777	371915.9063	3769020	1.1E-06	3.1E-08	6.1E-09	4.1E-07	1.6E-06
1787	371744.625	3769009	6.6E-07	1.5E-08	3.6E-09	8.6E-07	1.5E-06
1778	371735.9063	3768977.75	1.1E-06	2.6E-08	6.0E-09	3.6E-07	1.5E-06
1790	371735.9063	3768977.75	1.1E-06	2.6E-08	6.0E-09	3.6E-07	1.5E-06
941	371815.9063	3769120	1.1E-06	3.5E-08	5.9E-09	3.8E-07	1.5E-06
651	371840.9063	3768945	1.1E-06	2.5E-08	5.8E-09	3.8E-07	1.5E-06
810	371690.9063	3769045	1.1E-06	2.7E-08	5.7E-09	4.0E-07	1.5E-06
735	371915.9063	3768995	1.0E-06	2.7E-08	5.6E-09	3.9E-07	1.4E-06
986	371890.9063	3769145	1.1E-06	3.8E-08	5.9E-09	3.5E-07	1.4E-06
904	371940.9063	3769095	1.1E-06	3.6E-08	5.9E-09	3.4E-07	1.4E-06
767	371665.9063	3769020	1.0E-06	2.6E-08	5.5E-09	3.8E-07	1.4E-06
985	371865.9063	3769145	1.0E-06	3.7E-08	5.7E-09	3.4E-07	1.4E-06
946	371940.9063	3769120	1.0E-06	3.6E-08	5.7E-09	3.3E-07	1.4E-06
695	371890.9063	3768970	1.0E-06	2.6E-08	5.6E-09	3.2E-07	1.4E-06
940	371790.9063	3769120	9.7E-07	2.9E-08	5.3E-09	3.7E-07	1.4E-06
987	371915.9063	3769145	1.0E-06	3.7E-08	5.6E-09	3.2E-07	1.4E-06
862	371940.9063	3769070	1.0E-06	3.3E-08	5.6E-09	3.2E-07	1.4E-06
609	371840.9063	3768920	9.5E-07	2.3E-08	5.1E-09	3.3E-07	1.3E-06
853	371715.9063	3769070	9.2E-07	2.4E-08	5.0E-09	3.5E-07	1.3E-06
820	371940.9063	3769045	9.2E-07	2.9E-08	5.1E-09	3.2E-07	1.3E-06

APPENDIX E

CARCINOGENIC RISK FOR RECEPTORS WHERE RISK WAS GREATER THAN $1x10^{-6}$

BreitBurn Drill Site
Los Angeles, California

Receptor	X-Coor (UTM m)	Y-Coor (UTM m)	Benzene	Tetrachloroethene	Trichloroethene	Particulate Matter	TOTAL CANCER RISK
896	371740.9063	3769095	9.1E-07	2.5E-08	5.0E-09	3.1E-07	1.3E-06
608	371815.9063	3768920	9.7E-07	2.3E-08	5.2E-09	2.6E-07	1.3E-06
988	371940.9063	3769145	9.1E-07	3.4E-08	5.1E-09	2.9E-07	1.2E-06
939	371765.9063	3769120	8.7E-07	2.5E-08	4.8E-09	3.4E-07	1.2E-06
686	371665.9063	3768970	9.5E-07	2.4E-08	5.1E-09	2.6E-07	1.2E-06
984	371840.9063	3769145	9.0E-07	3.2E-08	5.0E-09	3.0E-07	1.2E-06
778	371940.9063	3769020	8.7E-07	2.5E-08	4.8E-09	3.2E-07	1.2E-06
1779	371738.6563	3768975	8.7E-07	2.0E-08	4.7E-09	2.9E-07	1.2E-06
947	371965.9063	3769120	8.6E-07	3.1E-08	4.8E-09	2.7E-07	1.2E-06
809	371665.9063	3769045	8.3E-07	2.3E-08	4.6E-09	3.0E-07	1.2E-06
736	371940.9063	3768995	8.2E-07	2.2E-08	4.5E-09	3.1E-07	1.2E-06
696	371915.9063	3768970	8.5E-07	2.2E-08	4.6E-09	2.8E-07	1.2E-06
905	371965.9063	3769095	8.5E-07	3.0E-08	4.7E-09	2.7E-07	1.1E-06
1029	371915.9063	3769170	8.4E-07	3.2E-08	4.7E-09	2.6E-07	1.1E-06
727	371640.9063	3768995	8.3E-07	2.2E-08	4.6E-09	2.8E-07	1.1E-06
1028	371890.9063	3769170	8.3E-07	3.1E-08	4.7E-09	2.6E-07	1.1E-06
989	371965.9063	3769145	8.1E-07	3.0E-08	4.6E-09	2.5E-07	1.1E-06
983	371815.9063	3769145	7.9E-07	2.7E-08	4.4E-09	2.7E-07	1.1E-06
652	371865.9063	3768945	7.8E-07	1.9E-08	4.2E-09	2.9E-07	1.1E-06
852	371690.9063	3769070	7.8E-07	2.1E-08	4.3E-09	2.8E-07	1.1E-06
863	371965.9063	3769070	7.9E-07	2.7E-08	4.4E-09	2.6E-07	1.1E-06
766	371640.9063	3769020	7.8E-07	2.1E-08	4.2E-09	2.8E-07	1.1E-06
1030	371940.9063	3769170	8.0E-07	3.0E-08	4.5E-09	2.5E-07	1.1E-06
691	371790.9063	3768970	7.3E-07	1.7E-08	4.0E-09	3.2E-07	1.1E-06
982	371790.9063	3769145	7.4E-07	2.4E-08	4.1E-09	2.8E-07	1.0E-06
1027	371865.9063	3769170	7.6E-07	2.8E-08	4.3E-09	2.4E-07	1.0E-06
821	371965.9063	3769045	7.4E-07	2.4E-08	4.1E-09	2.6E-07	1.0E-06
610	371865.9063	3768920	7.1E-07	1.7E-08	3.8E-09	2.8E-07	1.0E-06
779	371965.9063	3769020	7.2E-07	2.1E-08	4.0E-09	2.6E-07	1.0E-06

Notes:

* - Air concentrations for other receptors are presented in the modeling output. Assumes residential exposure for all receptors.

[1] The Exposure Factor for residents was calculated as:

302 L/kg-day*0.001 m^3/L *0.001 mg/µg * 350/365days*70years/70 years ($2.9x10^{-4}$)

ZA-1989-17683-PA2-1A

EXHIBIT H

ZA Memo 133

OFFICE OF ZONING ADMINISTRATION

MEMORANDUM

ZA MEMORANDUM NO. 133

September 19, 2016

TO: Office of Zoning Administration
Development Services Centers
Department of Building and Safety
Department of Public Works – Bureau of Engineering
Los Angeles Fire Department
Los Angeles Department of Water and Power

FROM: Linn K. Wyatt
Chief Zoning Administrator

SUBJECT: **APPLICATION AND PROCESSING REQUIREMENTS, INCLUDING CEQA REVIEW, FOR OIL AND GAS APPROVALS PURSUANT TO LOS ANGELES MUNICIPAL CODE SECTION 13.01-H.**

This Memorandum supersedes ZA Memorandum No. 94, dated December 12, 1994, and ZA Memorandum No. 94A, dated March 24, 2000.

This Memorandum is intended to establish a comprehensive set of procedures and policies for the acceptance and processing of applications for oil drilling approvals pursuant to Los Angeles Municipal Code (LAMC) Section 13.01-H and to establish City guidelines for the California Environmental Quality Act (CEQA) review of Section 13.01-H oil drilling applications.

I. Background

The LAMC requires a formal application and a filing fee in conjunction with a request for a determination of conditions for the conduct of oil drilling pursuant to LAMC Section 13.01-H. Other than the requirement for an application and payment of a filing fee, the LAMC contains no express procedural requirements for the determination of conditions under Section 13.01-H for an original approval or for a modification or clarification to a previously approved determination of conditions.

Z.A. Memoranda Nos. 94 and 94A

Historically, as described in ZA Memoranda Nos. 94 and 94A, applicants were permitted to apply for modifications to the original conditions for oil drilling approvals through the use of a more limited review process (similar to a plan approval under LAMC Section 12.24-L and M).

The use of the process outlined in Memoranda Nos. 94 and 94A is no longer permitted for any Section 13.01-H application, including those submitted as a determination of conditions, modification of condition, request for clarification, or related approval. All applicants seeking an approval under Section 13.01-H must follow the application procedures outlined in this Memorandum. All applications seeking any approval under Section 13.01-H will be processed by the City, including the Office of the Zoning Administrator, pursuant to this Memorandum.

Existing Approvals with Modification Procedures

In addition to the above historical process, there are existing active approvals which include conditions establishing a process for subsequent modifications or condition review. An example of one condition reads substantially as follows:

> *Drilling operations for the first X wells identified in the grant clause of the instant determination shall be completed within 36 months from the effective date of this determination. The drilling for the following X wells as hereby authorized shall be subject to a review of plans by the Zoning Administrator, without a public hearing, for the purpose of updating the record with the well identification and path.*

Another condition reads substantially as follows:

> *Review of Conditions. Two years following completion of construction… the applicant shall submit a Plan Approval application for reviewing the effectiveness of these conditions. … The applicant shall submit a 500-foot radius map with accompanying labels for owners and occupants. The Zoning Administrator may set the matter for public hearing if warranted.*

Both of these conditions include processes that are inconsistent with the processes established in this Memorandum. The first condition is inconsistent because it allows for modifications without a public hearing. The second condition is inconsistent because it allows the Zoning Administrator to not set a public hearing for a Plan Approval and implies the notice radius is 500 feet.

To the extent that any existing condition or grant in an existing approval gives the Zoning Administrator discretion in the process to be followed for a modification or condition review, the procedures in this Memorandum shall be followed, in accordance with the findings in Section II and the purpose statements in Section III.

To the extent that any existing condition or grant in an existing approval mandates a procedure that is inconsistent with this Memorandum, the Zoning Administrator shall consider whether a Plan Approval process shall be initiated by the City to revise any conditions to protect the public health, safety and welfare, including any condition establishing a process inconsistent with the purpose of this Memorandum. On the other hand, if an existing condition or provision is not modified through a Plan Approval, then the process outlined in the existing approval shall be followed.

Nothing in this Memorandum is intended to expand the authority the City has to initiate a Plan Approval.

II. Findings

In issuing this Memorandum, the Zoning Administrator makes the following findings:

A. In adopting the California Environmental Quality Act[1], the Legislature declared:

> It is the intent of the Legislature that all agencies of the state government which regulate activities of private individuals, corporations, and public agencies which are found to affect the quality of the environment, shall regulate such activities so that major consideration is given to preventing environmental damage, while providing a decent home and satisfying living environment for every Californian. (Public Resources Code Section 21000(g).

B. The CEQA Guidelines provide that CEQA's basic goal of protecting the environment has two purposes:

(1) avoiding, reducing, or preventing environmental damage where possible by requiring alternatives or mitigation measures; and

(2) providing information to decision-makers and the public concerning the environmental effects of proposed and approved actions. (CEQA guidelines 15002(a).)

C. One oft-repeated purpose of the CEQA Guidelines is to provide for public participation, including as set forth in Section 15201:

> Public participation is an essential part of the CEQA process. Each public agency should include provisions in its CEQA procedure for wide public involvement, formal and informal, consistent with its existing activities and procedures, in order to receive and evaluate public reactions to environmental issue related to the agency's activities. Such procedure should include, wherever possible,

[1] Public Resources Code, Sections 21000, *et seq*.

making environmental information available in electronic format on the Internet, on the web site maintained and utilized by the public agency.

D. Although CEQA does not require formal hearings at any state of the environmental review process, section 15202 provides that:

...

(b) If an agency provides a public hearing on its decision to carry out or approve a project, the agency should include environmental review as one of the subjects for the hearing.

(c) A public hearing on the environmental impact of a project should usually be held when the lead agency determines it would facilitate the purposes and goals of CEQA to do so. The hearing may be held in conjunction with and as part of normal planning activities.

...

(f) A public agency may include, in its implementing procedures, procedures for the conducting of public hearings pursuant to this section. The procedures may adopt existing notice and hearing requirements of the public agency for regularly conducted legislative, planning, and other activities.

E. Applications for oil and gas projects under LAMC Section 13.01-H have the potential to create unique risks and hazards to have the potential for significant and immediate impacts on the health, safety, and welfare of the residents in and around the project site through increased noise, odor, dust, traffic, and other disturbances, as well as the potential to significantly impact the City's air, water, soil, biological quality, geology, water, stormwater and wastewater infrastructure, transportation, emergency response plans and other aesthetic values and community resources.

F. People living and working within the land use and environmental impact range of oil and gas operations and activities have a substantial interest in participating in a public hearing on 13.01-H approvals.

G. Section 13.01-H provides authority for the Zoning Administrator to condition, approve or deny a Section 13.01-H application under the City's police powers to protect public health, safety and welfare and to issue and implement reasonable procedures to process Section 13.01-H applications consistent with the requirements for due process.

III. Purpose and Intent of Memorandum

This Memorandum is issued with the following intent:

- Ensure that the City complies with all legal requirements of CEQA in approving Section 13.01-H projects;
- Provide all parties that may be impacted by a project subject to a Section 13.01-H application an opportunity to participate in a public hearing;
- Meet the intent of CEQA in the review and approval of CEQA findings and determinations, to provide adequate public participation;
- Ensure that staff has time to adequately consider and respond to, if necessary, evidence submitted on a Section 13.01-H application and its related environmental findings (including the CEQA Guideline Section 15300.2 exceptions) prior to the issuance of any decision;
- Provide decision-makers and City Staff, and the public with the information and data needed for adequate decision-making under CEQA and Section 13.01-H;
- Ensure that Section 13.01-H applications are processed efficiently;
- Ensure that applicants, staff, and the public can rely on a consistent practice in reviewing Section 13.01-H applications;
- Provide for transparent disclosure and participation process; and
- Ensure that the city's processing and approvals pursuant to 13.01-H will not result in adverse effects to public health, safety, and welfare

IV. Application Requirements

The original case number shall be used for the plan approval request. Before an application may be deemed complete, the applicant must submit:

1) A completed "Land Use Application For Oil & Gas Project Conditional Approval" (CP Form CP-7834) with all required attachments, as specified in the application and the Instructions (CP Form CP-7833.)
2) A completed Environmental Assessment Form for Oil and Gas Projects (EAF-O, CP-7832), with all required attachments.
3) The filing fee pursuant to LAMC Section 19.01.

V. Processing Section 13.01-H Applications

A. CEQA Review

The following review procedures are intended to provide guidelines to implement CEQA on all Section 13.01-H applications. Nothing in this Memorandum or the guidelines provided herein are intended to conflict with CEQA. To the extent that these guidelines are silent or ambiguous, the Zoning Administrator shall fall back on the requirements and intent of CEQA. To the extent that these guidelines impermissibly conflict with CEQA, the provisions of CEQA control. Nothing in these Guidelines is intended to conflict with the Permit Streamlining Act, Gov't Code Section Government Code § 65920 et seq.

1. Preliminary Review for Exemptions

No categorical exemption forms will be processed for consideration or issued at the Planning Department Development Services. The applicant shall submit a complete EAF-O form with their application, which shall be reviewed by the Zoning Administrator. The Zoning Administrator will conduct a preliminary review to determine whether the application qualifies for an exemption from environmental review pursuant to CEQA. The Zoning Administrator may require the applicant to provide additional supporting materials from the applicant to support the use of a categorical exemption.

An application to drill, re-drill, deepen, or convert a well is not eligible for a categorical exemption and shall require an Initial Study or an EIR as described in section V.A.2. All other projects may be reviewed to determine if the project is exempt under any applicable categorical exemption in CEQA Guidelines Section 15300-15333 or any City Guidelines (adopted pursuant to CEQA). If a project is determined not to fall into any categorical exemption based on the project description, an Initial Study shall be prepared pursuant to section V.A.2. If the project falls within a categorical exemption, the Zoning Administrator shall determine if, based upon the whole of the record, any exception to any exemption under CEQA Guidelines, Section 15300.2, applies to the project, including, but not limited to the following:

> Cumulative Impact. All exemptions for these classes are inapplicable when the cumulative impact of successive projects of the same type in the same place, over time is significant.
>
> Significant Effect. A categorical exemption shall not be used for an activity where there is a reasonable possibility that the activity will have a significant effect on the environment due to unusual circumstances.

If the project is determined to be categorically exempt (CE) and no exceptions apply, the Zoning Administrator shall do all of the following:

- Give the public hearing notice required in section V.B., including a notice of an intent to adopt a categorical exemption to all property owners and occupants within a 1,500-foot radius of the project site's outer boundary, and provide for a 35-day comment period on the project, prior to approval. The public hearing may be held during the comment period. The hearing notice (with the notice of intent to adopt a CE) must be provided in English and Spanish.

- If after the 35-day comment period, or any time prior to making a decision on the project, the Zoning Administrator determines that substantial evidence does not support the use of the exemption, including from the existence of an exception in Section 15300.2, the Zoning Administrator shall require an Initial Study to be prepared consistent with the procedures outlined herein.

- Alternatively, if the Zoning Administrator finds after the 35-day comment period, or any time prior to making a decision on the project, that additional information and analysis is required to determine if the categorical exemption is supported with substantial evidence, and the applicant desires the City to use a categorical exemption rather than a prepare an Initial Study, the Zoning Administrator may require the applicant to submit additional information or documents and/or technical studies or reports, including requiring the applicant to hire independent consultants to prepare any necessary technical studies or reports or peer review any prepared studies or reports. If after reviewing any additional documents, reports or studies, required by the Zoning Administrator, it is determined that a categorical exemption is not supported by substantial evidence, an Initial Study shall be prepared.

- If the use of the categorical exemption is supported by substantial evidence in the record at the time of the decision, the Zoning Administrator shall ensure the record contains a memorandum or narrative substantiating the use of the categorical exemption, including explaining how substantial evidence in the administrative record supports the use of the exemption, and that the Zoning Administrator considered whether any exception to an exemption under CEQA Guidelines Section 15300.2 is applicable, including providing where necessary an explanation or evidence to demonstrate that any comments submitted on the intent to adopt the Categorical Exemption do not provide substantial evidence that an exception applies or the exemption does not apply.

2. Initial Study Determination

For any project that does not qualify for a categorical exemption, including any project to drill, redrill, or convert a well, an Initial Study must be completed.

Nothing in this subsection is intended to require the preparation of an Initial Study, when a preliminary review of the project demonstrates an EIR is clearly required, pursuant to CEQA Guidelines Section 15060(d).

The Initial Study must be prepared by an environmental consultant with the qualifications and experience required in this Memorandum. The Zoning Administrator may require the applicant to provide any additional documents, information or technical studies or reports necessary to complete the environmental review of the project, including requiring the applicant to hire an independent contractor to prepare or peer review technical studies or reports. The Initial Study shall comply with Section 15063 of the CEQA Guidelines and be prepared using Appendix G to the CEQA Guidelines and any City issued procedures or guidelines.

If the Initial Study shows both of the following Health Impact Assessment Criteria apply, the Zoning Administrator shall also require a Health Impact Assessment (HIA), as defined in Subsection V.A.5., before preparing the environmental clearance for the project:

- one or more of the air or hazards impact thresholds on Appendix G identified as III(a), III(b), III(d), VIII(a),VIII(b), VIII(c),or VIII(g) are found to be "less than significant impact with mitigation"; and
- the project is within 1,500 feet of any sensitive receptors, as defined by SCAQMD.

After the Initial Study is completed (and the HIA, if necessary), the Zoning Administrator will determine whether the proposed environmental clearance for the proposed project is a Negative Declaration (ND) or a Mitigated Negative Declaration (MND) or whether an EIR is required pursuant to sections 15065 or 15064 of the CEQA Guidelines.

If the Initial Study demonstrates that all of the impact areas will have no impact or less than significant impact, the Zoning Administrator may prepare a ND. (Note: if the Health Impact Assessment Criteria apply, a ND could not be prepared because the Initial Study identified significant impact requiring mitigation.)

If the Initial Study (and the HIA, if required) demonstrates that the project will not result in a significant impact with mitigation imposed, the Zoning Administrator may prepare a MND.

If the Initial Study (and the HIA, if required) demonstrates that the project may result in a significant impact to the environment that cannot be mitigated to less than significant, the Zoning Administrator shall require the preparation of an EIR. In determining whether an EIR is required, the Zoning Administrator shall review and consider all of the following CEQA Guidelines, without limitation to any other applicable requirements of CEQA:

- 15064 (guidelines on determining significant impacts),
- 15064.4 (guidelines on determining greenhouse gas impacts),
- 15064.5 (guidelines on determining cultural and archaeological impacts), and
- 15065 (guidelines requiring consideration of Mandatory Findings of Significance, including subsection (a)(4): "The environmental effects of a project will cause substantial adverse effects on human beings, either directly or indirectly.")

If an ND or MND is issued, the Zoning Administrator shall publish a Notice of Intent to Adopt an ND or MND pursuant to CEQA Guidelines Section 15073, prepare the ND or MND findings (and the Mitigation Monitoring Program for a MND) and process the application pursuant to Section IV. The Public Hearing notice sent in section V.B. will include a statement that the City has published a Notice of Intent to Adopt an ND or MND and include a link to the City's website where the Notice of Intent is published. The Notice of Intent to Adopt an ND or MND shall be published on the City's website in English and Spanish.

If the Initial Study demonstrates the project requires an Environmental Impact Report (EIR), the Zoning Administrator shall follow the procedures in section V.A.3.

3. Environmental Impact Report

If an EIR is to be prepared on a project, in addition to any other requirements of CEQA, the City will require all of the following:

- Provide the Notice of Preparation to all property owners and occupants within a 1,500-foot radius of the project site's outer boundary; and
- Prepare a Health Impact Assessment, as defined in section V.A.5., if not already prepared, and provide a relevant summary of the Health Impact Assessment in the EIR where appropriate to inform the required analysis. The Health Impact Assessment shall be considered in any certification of the EIR and the approval, conditional approval, or denial of the Section 13.01-H application.

An environmental consultant with qualifications and experience provided in section V.A.4 must prepare the EIR. The EIR must be prepared and certified in compliance with CEQA, including but not limited, CEQA Guideline Sections 15080-15097, 15120-15155.

4. Environmental Consultant Qualifications

The City shall ensure that any environmental consultant that is preparing an Initial Study, MND, ND, or an EIR on a 13.01-H project has the following qualifications and experience:

- The Project Manager has at least seven (7) years' experience preparing CEQA documents.
- The Project Manager has prepared and/or reviewed at least five (5) EIRs for projects involving oil and gas drilling or production.
- The consultant or consultant team, including any subcontractors, have demonstrated training, knowledge, and experience in the following topic areas as they specifically relate to oil and gas projects: environmental health, public health, hazardous materials, air quality, GHG emissions, water quality, geology, noise, traffic, aesthetics, and risk and safety issues.
- In the case of EIRs or MNDs requiring Health Impact Assessments, the consultant team, including any subcontractors, has at least five (5) years' experience in preparing Health Impact Assessments. The consultant who prepares the HIA shall be familiar with accepted HIA process and content including, but not limited to, the "Minimum Elements and Practice Standards for Health Impact Assessment," Version 3.

The City shall ensure that all environmental consultants have copies of this Memorandum prior to preparation of any Initial Study, ND, MND or EIR.

5. Health Impact Assessment (HIA)

A HIA is defined as follows:

> A study of the project for the surrounding vicinity identifying pollution and population indicators, such as, but not limited to, those analyzed in the

California Communities Environmental Health Screening Tool; the number of people affected by the project; short term or permanent impacts caused by the project; likelihood that impacts will occur; and recommended mitigation measures.

Any HIA required under these procedures shall be used to inform whether an EIR is required and whether to approve, condition, or deny the application under Section 13.01-H.

B. Public Participation

The Zoning Administrator will hold a public hearing on all Section 13.01 applications prior to project approval.

Notice of this public hearing must be sent to all property owners and occupants within a 1,500-foot radius of the project site's outer boundary, in English and Spanish. For projects being approved with a CE, ND or MND, the Notice of Intent to Adopt a CE, ND or MND may be combined with the public hearing notice.

C. Final Determination

Notices of final decisions will be issued to the applicant, all residents abutting the project site, and all individuals who request such notice.

All Zoning Administrator Section 13.01-H Determinations may be appealed to the Area Planning Commission. The Area Planning Commission decision is final. All CEQA determinations by the Zoning Administrator or the Area Planning Commission are subject to appeal to the City Council pursuant to Public Resources Code Section 21151(c).

Nothing in this Memorandum is intended to limit the Zoning Administrator's express and inherent authority to administer LAMC Section 13.01-H.

LKW:lw

ZA-1989-17683-PA2-1A

EXHIBIT I

2006 Zoning Administrator's
Letter of Determination
Case ZA-1989-17683-PA1

DANIEL GREEN
ACTING CHIEF ZONING ADMINISTRATOR

ASSOCIATE ZONING ADMINISTRATORS
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PATRICIA BROWN
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March 13, 2006

Michael V. Tolbert (A)(R)
Breitburn Energy Company, LP (A)
515 South Flower Street, #4800
Los Angeles, CA 90071

Department of Building and Safety

CASE NO. ZA 17683(PAD)(PA1)
APPROVAL OF PLANS
9101 West Pico Boulevard
West Los Angeles Planning Area
Zone : C4-1VL-O
D. M. : 132B169
C. D. : 5
CEQA : ENV 2005-2245-CE
Fish and Game : Exempt
Legal Description : Lots 883-888, Tract 6380

Pursuant to the provisions of Section 12.24-M of the Los Angeles Municipal Code, and as required by Condition No. 78 under Case Nos. BZA 2000-1697 and ZA 17683(PAD), I hereby DETERMINE:

that the Conditions of approval have been and are being complied with, that the operation of the facility poses no ongoing health risk, that necessary inspections of the facility by government agencies will continue, and that further hearings or formal review by the Zoning Administrator are not indicated.

BreitBurn Site Characteristics/Operational Overview

The drill site is an oil drilling and producing facility that was originally constructed by Occidental Petroleum Corporation in 1965. Fifty-nine of 69 wells authorized by the City of Los Angeles and reaching into the oil-production zone have been completed or abandoned. The remaining 10 wells have been drilled to a depth sufficient to allow cementing in place of the first casing, conductor pipe. The site currently extracts approximately 700 barrels of oil and 1,200,000 cubic feet of natural gas per day on a 24-hour, seven-day per week operating schedule.

The drill site consists of a support building, a movable catwalk building surrounding and attached to the derrick (drilling tower), a drilling mud processing building, two well cellars that contain the 69 wellheads, and incidental equipment and ancillary structures. The drilling tower is mobile and can be slowly moved along railroad-like rails in order to access all wellheads. It can move east-west along each well cellar; the north cellar is 144 feet long and the south cellar is approximately 100 feet long. The drilling tower can also move north-south approximately 30 feet to move between the two well cellars. The drill site houses a

permanent, mobile, electrically-powered derrick approximately 23 feet on each side, 128 feet tall and enclosed within an architectural structure. The ground surface of the drill site is covered in concrete or asphalt at or near grade. Most permanent equipment is below grade in well cellars or located inside enclosed structures. Where buildings do not create a boundary, the drill site is surrounded by 25-foot walls intended to provide noise control and visual screening.

The derrick is used for the two general types of operations routinely conducted at the drill site: well maintenance (which usually includes pipe-pulling) and drilling/redrilling operations. BreitBurn normally engages in each of these activities for several months per year (i.e., 2 to 6 months each); the derrick is not used during the remaining time. Well maintenance consists of lifting pipe from the well in sections, stacking the sections vertically within the derrick, repairing the well or its equipment, and then lowering these sections back into the well. Pipepulling activities typically occur over several hours to a few days and usually continue on a 24-hour-per-day basis. Drilling/redrilling operations consist of drilling a new hole and/or using the upper portions of an existing well for slant drilling a new portion of the well in the production zone. Drilling/redrilling operations typically occur 24 hours per day and may last for several days to more than one month at a time.

When the drill rig is in use and at nearly all other times, there is, by design, an updraft of air in the tower. There are three fans on top of the derrick creating this updraft: one pulls air from the rig floor, one pulls air from the mud house, and one is a swing fan that can pull air from either source but not both at the same time. In addition, fans in the supply building and purge air fans (bringing in outside air) contribute to the updraft in the derrick tower. This updraft sweeps chemical vapors being released by drilling/redrilling or pipe-pulling activities into the tower air and out the top of the structure. When drilling a well, mud – a water-based slurry of clay type materials – is pumped into the well for several reasons, including lubrication, debris removal, and occasionally to power the drill rotation. During drilling, mud constantly flows out of the well carrying the drilling debris (shavings). The mud is transported in pipes to the mud house where the shavings are separated from the mud, which is then reused. During the separation process using shakers and screens, crude oil in the mud can release petroleum-based vapors. Fans mounted in the mud house move sweep air through the mud house to capture these vapors and move them into a large duct that runs several hundred feet to nearly the top of the inside of the drilling tower where it vents to the atmosphere. There is an additional induced draft (ID) fan near the top of the tower to help draw the vent air through the duct work. The ID fans in the derrick are always on (even during idle periods). No mud is pumped during well maintenance operations or during idle periods.

The well heads are located in two cellars, each configured as a long, narrow, recessed corridor. In these cellars, there may be small amounts of standing crude oil or oily water and oil present on well heads and pipes more or less at all times. Other activities at the drill site include truck deliveries to the support building and cleaning operations. In addition, diesel engines are used in the supply building intermittently to power a pumping system. For the purpose of estimating off-site air concentrations, BreitBurn personnel provided a projection of drilling and maintenance activities for the next 30 years.

Public Hearing

The Zoning Administrator conducted a public hearing at the West Los Angeles Municipal Building, Second Floor Hearing Room, 1645 Corinth Avenue, on June 16, 2005, commencing at approximately 9:30 a.m. The Zoning Administrator highlighted the purpose of the hearing and explained the procedures to be followed during the course of the hearing.

Rae Drazin, a vice president of Neighbors for a Safe Environment ["NASE"] stated that she walked by the facility and did not see any hearing notice on the property; the hearing should not be conducted.

In response, Mike Tolbert, a representative for BreitBurn Energy Company ["BreitBurn"], the applicant, testified that notices of this hearing were posted approximately 8 days prior to the hearing; he handed the notices to site personnel that day. He is unaware of any notices having been removed.

John Kuespert, a geologist for BreitBurn, testified that he posted a copy of the notice on doors to both streets using strong tape. He observed the notices several days ago.

Gregory Brown, an attorney for BreitBurn, stated that a hearing for a conditional use requires the posting of a hearing notice but that this hearing is a plan approval, not a conditional use, and is for the express purpose of reviewing compliance with the Conditions previously established.

Richard Weiner, an attorney and representative of NASE, advised that a risk assessment report is required to be prepared in accordance with the settlement agreement between the neighbors and the applicant. Completion of the risk assessment report has been delayed due to actions of the applicant. The Zoning Administrator should continue the matter for 90 days in order to consider the conclusions of the report when it is available as well as comments from the public on those conclusions. Mr. Weiner identified Paragraphs 1 and 2 of the settlement agreement as the source for the obligation to provide the report. In response to the Zoning Administrator's inquiry as to when the report is required to be completed, Mr. Weiner advised that there is no stated timetable. Paragraph 4.b of the agreement does require that the Zoning Administrator consider the risk assessment in rendering a written determination.

Mr. Brown stated that emissions were evaluated in the environmental impact report [EIR] for the present facility. BreitBurn has funded the risk assessment study which he believes will confirm the conclusions in the EIR. BreitBurn does not manage the study; this is handed off to NASE. The last sampling was done in January 2005. The settlement agreement required the risk assessment report to be submitted prior to the instant review. Condition No. 78 requires that the review take place two years after the facility begins drilling operations but does not require a public hearing. The Condition gives the Zoning Administrator discretion to conduct a public review and hearing if the assessment report identifies problems. Mr. Brown referred to the continuation of Paragraph 4.b that Mr. Weiner did not mention: if the risk assessment report shows a cancer risk, then a hearing is warranted. Mr. Brown doubts any significant risk will be shown in the report.

Ms. Drazin testified that the risk assessment results required timely sampling during various BreitBurn events and progress payments were not always paid immediately.

Hal Washburn, of BreitBurn and Chris Williamson, vice president of operations of BreitBurn, narrated a 15-minute slide show. The slides showed, among other features, physical changes from the previous plant to the current facility, and discussed the expenditure of $20 million in plant upgrades. The applicant removed a major source of diesel pollution - the drill rig now operates entirely on electricity. The aesthetics of the facility are substantially improved. Noise is shielded through taller perimeter walls, the derrick is soundproofed, early alert gas detectors and advanced fire alarm and fire suppression systems have been installed, video recording equipment has been installed to detect exterior noise - sensitive enough to detect rain hitting the building, all employees are trained in a neighborhood awareness program, no visible work occurs on religious holidays, and the applicant has responded quickly to the few violations that government agencies have issued. [A copy of the slide images are provided in the case file.]

Dolores Dolgoff, a resident of Canfield Avenue, two blocks to the south of the BreitBurn facility, stated that in her daily walks to work, she routinely passes the applicant's property at various hours in the mornings and afternoons. At no time has she ever heard any noise, smelled any odor, or observed any heavy vehicles blocking traffic that was related to the applicant's property. The site is one of the most attractive on Pico Boulevard between Robertson Boulevard and Beverly Drive. She wishes other businesses were as conscientious about their activities as BreitBurn is about its operation. Residents living next to commercial businesses are at their own risk and should expect more noise and activity than if they are far removed. In response to the Zoning Administrator's inquiry, Ms. Dolgoff acknowledged that she receives oil royalty payments from BreitBurn.

Ben Newlander, a Swall Drive resident, prefaced his remarks by declaring that he receives oil royalties. He described himself as a triathelete. He has cycled from his house past the BreitBurn site "hundreds of times" and has never detected any odor. He also frequently walks by in the evenings. He also stated that he has heard no unusual noise emanating from the property.

Max Whitehouse, another neighbor, prefaced his remarks by declaring that he receives no royalties. He has lived nearby for the past 22 years. BreitBurn has made neighborhood relations a top priority. The typical gardeners probably pollute the air more with their mowers and blowers than BreitBurn and they make more noise. He is aware of no noise coming from the site. In his opinion, BreitBurn is a better neighbor than a nearby market which impacts the area with its outdoor garbage and rats.

Sherry Tedeschi, another neighbor, stated that she has observed no impacts from BreitBurn's operation. She also praised the applicant for maintaining good relations with the neighborhood. The complaints voiced today have been repeated for years.

Jonathon Friedman, a neighbor and board member of the South of Robertson Organization [SORO] - the neighborhood council for this area, stated that the applicant enjoys the overall support of the neighborhood. From his house he can see the drill tower. He receives no oil royalties. The tower is attractive, and it does not block out the sun. In his experience, the applicant has been an exemplary neighbor. The applicant has shown religious

sensitivity. Oil royalties to area property owners is a source of economic prosperity in the neighborhood. He too wishes all businesses would operate as sensitively as BreitBurn.

Sylvia Gross, a 32-year resident of the area, noted that she walks a lot. She has never smelled any odors from the site. Only one time did she see a big truck related to BreitBurn's operation and she saw men directing it onto the property. The noise from the nearby gas station, on the other hand, is terrible.

Mike Graver, owner of the Goodyear store at Cardiff Avenue, testified that BreitBurn informs him ahead of time if any anticipated operations will impact his business. The redevelopment of the oil drilling operations has been a major improvement.

Harold Fisher, another nearby resident and SORO board member, complained of frequently enduring odors from the site. He has also detected noise coming from the site. He has observed trucks using Oakhurst Drive. He speculated that employees "probably park on Oakhurst." He believes there are more employees parking there than before the remodeling of the facility because it is now a 24-hour operation.

Evelyn Wiles, a neighbor and NASE board member, complained that the hotline phone number frequently did not work. She has walked around the site various times and has smelled odors.

Ms. Drazin stated that NASE is not opposed to the project but it wants to make sure there are no impacts from its operation on residents. NASE is putting together a report of actual data. She does not believe the accuracy of the underlying EIR data which included no on-site testing. She has smelled crude oil many times when she goes by the site.

Mr. Weiner remarked that on the last two days during the Jewish holiday of Shavuot he was walking past site around 8:15 a.m. and heard "a tremendous noise" lasting five minutes or longer. "It sounded like 100 or more pipes falling." He has also observed trucks backing up across Doheny Drive which creates traffic congestion.

On rebuttal, Mr. Brown pointed out that BreitBurn has two parking lots immediately adjacent to the drill site and one behind the adjacent processing facility to the west. Neighbors park there on occasion. Given the proximity of the company's parking lots, there is no reason for employees to park on any street. The Southern California Air Quality Maintenance District has been there "dozens of times", sometimes without notice at random times, and the Zoning Administrator has been presented a log of their inspections. Only on one occasion did that agency note any faint odors; at all other times there was either no odor detected or the detected odor was from other locations and sources.

The Zoning Administrator concluded the oral testimony and announced that the matter would be taken under advisement pending the completion of the risk assessment report, its release, and comments in response.

Geomatrix Consultants, Inc., on behalf of Neighbors for a Safe Environment (NASE) prepared and issued a health risk assessment dated February 1, 2006, for air emissions from operations at the drill site. The objective of this project was to collect air quality data that reflect emissions of chemicals during operations at the drill site (excluding

concentrations of chemicals associated with background conditions) and to quantify potential exposures to residents and industrial/commercial receptors in the vicinity. Potential human health risk was evaluated separately for the ambient air measurements and source emission measurements.

The Geomatrix health risk assessment concluded as follows:

1. The ambient air concentrations were two or more orders of magnitude lower than the acute reference exposure levels, indicating that chemical emissions from the drill site would not result in an acute public health risk for acute exposure under the conditions evaluated.

2. The total chronic hazard indexes for the MEIR and MEIW were 0.02 and 0.004, respectively. These values are well below a hazard index of 1, indicating that chemical emissions from the drill site would not result in a public health risk for chronic noncarcinogenic exposure under the conditions evaluated.

3. The estimated carcinogenic risk for the MEIR and MEIW were $8x10^{-6}$ and $1x10^{-6}$, respectively. These values are within the acceptable risk range as defined by U.S. EPA and below $25x10^{-5}$, the level used by SCAQMD to regulate existing emission sources. In addition, the activities at the BreitBurn drill site do not appear to contribute significantly to background air concentrations of key chemicals (benzene and diesel particulates).

The Geomatrix Uncertainty Analysis made the following conclusions:

For the ambient air evaluation, a limited number of measurements were made. However, since the measurements were significantly lower than acute toxicity criteria, additional ambient measurements would not be likely to change this conclusion.

- A limited number of source measurements were made to characterize emissions during the different facility activity modes (four for drilling and one for maintenance). As conditions during drilling and maintenance activities are not consistent, these measurements may over or underestimate emissions on an annual basis. However, emissions from these sources did not result in carcinogenic risks or hazard indexes exceeding acceptable levels. Emissions from these sources would have to be at least 10 times higher than those measured to results in a significant increase to estimated risk.

- Background concentrations of benzene in the vicinity of the drill site as measured in ambient samples and general background concentrations in the South Coast Air Quality Management District are higher than the predicted concentrations from sources at the drill site. Thus, ambient measurements can not be used to corroborate the model results. This suggests that ambient conditions are dominated by sources other than the drill site.

- Background concentrations of diesel particulates in the South Coast Air Quality Management District as estimated by the California Air Resources Board ["CARB"] are significantly higher than predicted concentrations of diesel particulates by the

model. Thus, ambient measurements can not be used to corroborate the model results. This suggests that ambient conditions are the result from sources other than the drill site.

- The exposure assessment is based on conservative exposure assumptions. For example, the evaluation assumes that a worker will be exposed for 245 days per year for 40 years and a resident will be exposed for 350 days per year for 70 years at the same concentration. This and other upper-bound estimates of exposure most likely overestimate the potential health risks associated with exposure to the COPCs emitted from the BreitBurn drill site.

- One of the largest sources of uncertainty in any risk assessment is associated with the scientific community's limited understanding of the toxicity of most chemicals in humans following exposure to the low concentrations generally encountered in the environment. The majority of available toxicity data are from animal studies, which are then extrapolated using mathematical models or multiple uncertainty factors to generate toxicity criteria used to predict what might occur in humans. In the aggregate it is believed that the uncertainty is conservative; actual risk will be lower.

Breitburn Energy Company, in a letter to the Zoning Administrator dated February 1, 2006, discloses that a health risk assessment has been prepared by PCR Services Corporation "in order to correct several errors contained in [the Geomatrix report]." A copy of that report, dated January 2006, was attached. Some of the PCR observations and conclusions in that report are these:

1. Geomatrix "does not account for or measure the vast vehicular traffic immediately adjacent to the facility (for approximately 40,000 gasoline and diesel vehicles per day on Pico Boulevard) nor for emissions that come from the very high volume gas station across Doheny from the drillsite."

2. The sampling location does not account for the two large dry cleaners across the street and immediately upwind from the site. "PERC is used extensively in dry cleaning but is not used at the BreitBurn site. The Geomatrix testing did not identify the likely source of the PERC in ambient air. Instead, Geomatrix included the PERC cancer risk in the air attributable to the BreitBurn site."

3. The one high recording of benzene, on January 8, 2004, did not include ambient measurements for the same day, so that "it is impossible to determine if the benzene was coming from the facility or an outside source."

4. "The Geomatrix HRA included all chemicals detected at drill site sources even though some of these chemicals are not reportedly used or generated at the drill site."

5. Because drilling activities will decrease from 40 percent in 2005 to 3.2 percent in 2009 and beyond, the Geomatrix assessment that current levels of exposure will continue for 70 years is contrary to anticipated exposure levels. Likewise, as idle time will increase from 22 percent in 2005 to 71 percent in 2009 and beyond, the cancer risk results presented in the Geomatrix HRA greatly overstate the potential risk.

6. "Overall, cancer risk as a result of the facility is within the acceptable risk range used by U. S. EPA and below the level typically used for air toxics programs in California and recommended SCAQMD."

According to PCR,

- the California Air Resources Board (CARB) calculated the cancer risk attributable to the old diesel rig alone was as high as 15 - 40 per million
- Geomatrix concludes that the risk from the entire modernized site is 8 per million
- PCR calculates the risk from the entire modernized site is 1.2 per million
- In comparison, the CARB data assigns a risk of 30 per million to a typical dry cleaning plant. There are two dry cleaning plants across the street from the drillsite.

DISCUSSION

The entitlement process involving the modernization of oil drilling and recovery operations at this site was highly contentious. Ultimately, BreitBurn was given the land use approval it needed to proceed. The project was subsequently constructed. The Zoning Administrator conducted a public hearing approximately two years after the modernized facility was issued its certificate of occupancy. At that time, some residents complained of an oil odor and occasional ground shaking attributable to the ongoing operations of the drill site. A review of materials submitted by BreitBurn demonstrated compliance with the numerous Conditions of approval, corroborated by permits, photographs, and other documentation.

During this period of review, the Zoning Administrator met on occasion with one or more members of Neighbors for a Safe Environment (NASE), staff of the Department of Building and Safety, staff of the South Coast Air Quality Maintenance District, a council office staff member, and representatives of BreitBurn.

Because this facility is unique as compared with most land uses in the City and given the heightened attention of the underlying approval process, the Zoning Administrator toured the facility to experience it first hand, and walked around the immediate area.

Issuance of this written determination was significantly delayed in order to accommodate the interests of both BreitBurn and neighbors who wanted the health risk assessment information to be a basis for the instant determination. While initial indications at the public hearing in June 2005 anticipated release of the assessment report within 90 days, the report was not issued until February 2006. In that interim period of time, the Zoning Administrator inquired as to the ongoing status of the assessment and assured the parties that nothing would be issued by the City until the assessment was available to be reviewed. During the interim 8 months, very little information relating to day to day operations was submitted by any party. While the Zoning Administrator wanted to conclude the review as quickly as possible in the event major risk may have been occurring, there was also the desire to have a competent technical analysis upon which such a conclusion could be drawn. No documented or alleged problems occurred during the advisement period.

The Geomatrix and PCR health risk assessments have proved to be worth the wait. The Geomatrix report concludes that health risks are quite low and well within the range of safety. The PCR report concludes that the health risks are even lower than reported by Geomatrix. Based upon these two reports, cancer risk is substantially less as a result of the modernization program than existed beforehand.

Based upon the public testimony received, discussions with other regulatory agencies, and an on-site visit at the facility, I have determined that the Conditions of approval have been and are being complied with, that the operation of the facility poses no ongoing health risk, that necessary inspections of the facility by government agencies will continue, and that further hearings or formal review by the Zoning Administrator are not indicated. By the terms of the Conditions, the Zoning Administrator reserves the right to revisit alleged non-compliance in the future.

APPEAL PERIOD - EFFECTIVE DATE

The Zoning Administrator's determination in this matter will become effective after MARCH 28, 2006, unless an appeal therefrom is filed with the City Planning Department. It is strongly advised that appeals be filed early during the appeal period and in person so that imperfections/incompleteness may be corrected before the appeal period expires. Any appeal must be filed on the prescribed forms, accompanied by the required fee, a copy of the Zoning Administrator's action, and received and receipted at a public office of the Department of City Planning on or before the above date or the appeal will not be accepted. **Forms are available on-line at www.lacity.org/pln**. Public offices are located at:

Figueroa Plaza
201 North Figueroa Street,
4th Floor
Los Angeles, CA 90012
(213) 482-7077

Marvin Braude San Fernando
Valley Constituent Service Center
6262 Van Nuys Boulevard, Room 251
Van Nuys, CA 91401
(818) 374-5050

The time in which a party may seek judicial review of this determination is governed by California Code of Civil Procedure Section 1094.6. Under that provision, a petitioner may seek judicial review of any decision of the City pursuant to California Code of Civil Procedure Section 1094.5, only if the petition for writ of mandate pursuant to that section is filed no later than the 90th day following the date on which the City's decision becomes final.

DANIEL GREEN
Acting Chief Zoning Administrator
Telephone No. (213) 978-1318

DG:lmc

cc: Councilmember Jack Weiss
Fifth District
Adjoining Property Owners
County Assessor

ZA-1989-17683-PA2-1A

EXHIBIT J

1978 Zoning Administrator's
Letter of Determination
ZA-18893

CITY OF LOS ANGELES
CALIFORNIA

HUBER E. SMUTZ
CHIEF ZONING ADMINISTRATOR

ASSOCIATE ZONING ADMINISTRATORS
CHARLES V. CADWALLADER
ARTHUR DVORIN
MANUS D. O'GRADY
R. A. RUDSER

SAM YORTY
MAYOR

DEPARTMENT OF
CITY PLANNING

OFFICE OF
ZONING ADMINISTRATION

600 CITY HALL
LOS ANGELES, CALIF. 90012
MADISON 4-5211

July 28, 1967

Occidental Petroleum Corporation
ATTENTION: E. F. REID, V. P.
5000 Stockdale Highway
Bakersfield, California

Rose Fink
c/o Donald P. Dolan
219 South Citrus Avenue
Covina, California

Fire Prevention Bureau

Department of Building & Safety

Re: Z.A. CASE NO. 18893
Northeasterly corner
Pico Bl. & Cardiff Av.
Expansion of existing
controlled drill site.
O. D. District U-131
D. M. No. 548

Greetings:

In the matter of the application of Rose Fink, current owner, and Occidental Petroleum Corporation, optionee, owner-operator and lessee, for Determination of Conditions and Methods of Operation to be followed in expansion to the west on three C2 zoned lots, the production facilities portion of the existing previously authorized controlled drill site in Oil Drilling District U-131, please be advised that based upon the Findings of Fact hereinafter set forth and by virtue of authority contained in Section 13.01-E, F and H of the Municipal Code, the Chief Zoning Administrator hereby authorizes an extension of the controlled drill site approved under Z. A. Case 17683 onto Lots 1037, 1038 and 1039, Tract No. 6380 located at the northeasterly corner of Pico Boulevard and Cardiff Avenue so that the enlarged controlled drill site will comprise:

> Lots 883-888, and Lots 1035-1039, Tract 6380 located northerly of Pico Boulevard between Doheny Drive and Cardiff Av., Beverlywood District;

and the use of the here involved expanded portion of the controlled drill site for installation and operation of additional production

facilities in connection with the existing or future oil wells as authorized and which have their surface locations on the portions of the controlled drill site located easterly of Oakhurst Drive and which oil wells are producing oil, gas or other hydrocarbon substances from the subsurface beneath involved Oil Drilling District U-131 or surrounding established oil drilling districts as heretofore or hereafter authorized, all subject to the following terms and conditions:

1. That all the detailed terms and conditions specified under Z. A. Case No. 17683 with respect to development of the controlled drill site and to the drilling and production activity thereon shall apply to the activities on the expanded site and are by reference made a part hereof and shall be complied with to the same extent as if herein restated in detail except as herein clarified or modified, it being clearly understood that as specified in Condition No. 3 thereof, all surface drilling operations shall be confined to that portion of the site comprising Lots 884-887 and with the expanded portion of the site now comprising Lot 1035-1039 used only for corollary operations and expanded production facilities with no surface oil drilling conducted thereon and with Lots 883 and 888 utilized only for buffer landscaping treatment and incidental employee parking facility.

2. That prior to expansion of the controlled drill site onto said Lots 1037-39:

   A. All existing buildings shall be removed therefrom and the land necessary to provide the curved or cut corner at Pico Blvd. and Cardiff Avenue and necessary land to widen the southerly side of the alley abutting the northerly portion of the three lots to the normal 20' alley width, shall be dedicated and improved or suitably guaranteed in a manner and under the procedures provided in Sec. 12.37 of the Municipal Code.

   B. The Occidental Petroleum Corporation, operator of the facility, shall effectively demonstrate its ability to comply with the details and intent of the conditions applying to the present controlled drill site operations by:

      (1) Impressing upon the drilling personnel and truck operators or others who have occasion to bring trucks or equipment to the site that they are operating in close proximity to a residential neighborhood and to avoid any activity which would result in unusual or loud sounds and particularly during the hours of 7:30 P.M. to 7:30 A.M. and that doors to the drilling rig must be kept closed

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except when actually in use for installing or removing equipment, gates to the drill site must be kept closed except when a vehicle is actually entering or leaving the site and no vehicle be allowed to project outside of the gates and prevent them from being closed. Furthermore, that truck motors be stopped as soon as the vehicle is inside the site and the motor not started again until the vehicle is ready to leave the site, except that during daylight hours only the motor may be run when essential in logging and testing operations and in construction work where concrete transit mixers, truck cranes and rig movers are required but in such event the motor shall be adequately muffled.

(2) That a noiseless type of vacuum pump powered by electricity shall be installed and henceforth used for pumping drilling wastes into the collector tank truck and that no longer shall the truck motor be utilized for this purpose.

(3) That as a further amplification of Condition No. 21 of Z. A. Case 17683 and in order to further reduce the emanation of odors from the premises, in no event shall drilling muds or fluids containing odorous or volatile oil be hereafter utilized in the drilling operations and that any oils utilized for unusual lubrication purposes in connection with equipment or operations on the premises, other than the actual petroleum produced from the subsurface, shall be treated with chlorophyl, Deodall or some other type of effective deodorant.

(4) That additional soundproofing or change in design be effected by installing baffles and directing sound from the ventilators for the pumps and compressors so that the sound emanating therefrom as measured at locations adjacent to the drill site will at no time exceed the ambient sound encountered in the vicinity at approximately 3:00 A.M.

3. That the expanded portion of the controlled drill site here involved and westerly of the present production site facilities shall be enclosed with an attractive ornamental wall similar to that enclosing the adjoining portion of the site with similar attractive planter box reveals and observing the same landscaped setback and conforming with other landscaping details outlined in Condition No. 3 of Z. A. Case 17683 and with landscape treatment of the parkway along Cardiff Avenue as specified in said condition

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for the parkways along Doheny and Oakhurst Drives. It is understood that an attractively designed new soundproof equipment building may be constructed on the southwesterly portion of the expanded site, designed in a manner similar to that of the existing equipment building on the southeasterly corner of the production site and that the exterior walls of such production building may serve as part of the required enclosing fixture and all in the manner as indicated on the plot plan for the expanded production facilities, Exhibit "B" and the artist's perspective drawing Exhibit "X" attached to the application.

4. That as a further amplification of cross-referenced Condition No. 18, Subsection F, Sec. 13.01 of the Municipal Code which under Condition No. 1 of Z. A. Case 17683 applies to operation on the enlarged drill site, and in order to further reduce emanation of noise and prevent emanation of vibrations from the site, all newly installed pumps, compressors and ventilating equipment shall be installed under the direction of a recognized acoustical engineer and be properly cushioned so that vibrations therefrom will not extend beyond the drill site and so that at no time will the sound generated by this equipment exceed the ambient sound encountered in the vicinity of the site at approximately 3:00 A.M.

5. That in connection with drilling operations on that portion of the site where such operations are permitted, in no event shall noisy or jarring operations necessary to remove or dislodge a so-called "lost fish" or wedged drilling tool, such as recently occurred, be conducted during the hours of 6:00 P.M. and 8:00 A.M. or at any time on Sunday or nationally observed holiday such as Christmas, New Year, Memorial Day, July 4, Labor Day, Veterans Day and Thanksgiving.

6. That in connection with any portable equipment brought in to service an oil well after it has been completed, such as specified in crossreferenced Condition No. 4 of Sec. 13.01-F of the Municipal Code, such portable equipment shall be semi-soundproofed in a manner such as has been required in connection with the several temporary geological core hole operations conducted by the operator at other locations and such portable equipment shall not be operated between the hours of 7:30 P.M. onde day and 7:30 A.M. of the following day, or on Sundays or the nationally observed holidays listed in Condition No. 5.

7. That all of the items and qualifications contained in Condition No. 2 above which are prerequisite to expanding

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The controlled drill site shall continue to apply and be complied with in connection with operations on the existing and enlarged site.

8. That for the operators' protection against possible unjustified complaints and to assist the City enforcement officials in determining the merit of complaints against unusual noises, it is suggested that the operators install and maintain on the site adjacent to the alley near the oil drilling rig a sound-recording device which has a continuous graph which would indicate the time and date at which any unusual sound or noise emanates from the drilling activity. Furthermore, that an employee be entrusted with keeping a log of the time and date and cause of any unusual noise created by drilling operations or created by some external factor such as a sonic boom, low-flying airplanes, etc., and which could be compared with the continuous graph.

9. That in connection with the herein authorized expansion of the production site, the applicant-operator shall acquire Lot 1040 of Tract 6380 and shall continue to maintain and utilize said lot as a permitted transitional automobile parking facility in full compliance with the provisions of Sec. 12.21-A,6 of the Municipal Code and as a buffer between the expanded production facilities and the adjoining apartment house development provided, however, that employees working on night shifts shall be requested to utilize the parking area northerly of the portion of the drill site between Oakhurst and Doheny and shall be instructed to be considerate of the tenants of adjacent apartment houses when entering and leaving the parking facilities particularly during night hours.

10. That this determination permitting expansion of the controlled drill site shall in no event be considered as authorization for the drilling of any additional wells upon the drill site beyond those which have heretofore been authorized on the site under Z. A. Cases Nos. 17683, 18201, 18200, 18484, 18471 and 18623. Authority for drilling any additional wells must be authorized under separate application.

The applicants' attention is called to the fact that this determination is not a permit or license and that any permits and licenses required by law must be obtained from the proper public agency. Furthermore, that if any condition of this grant is violated or if the same be not complied with in every respect, then the applicants or their successors in interest may be prosecuted for violating these conditions the same as for any violation of the requirements contained in the Municipal Code. If this property is subleased or assigned to another oil company for drilling or production purposes, it is incumbent upon the applicants to notify said sublessee or assignee of the terms and

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conditions to the satisfaction of the Administrator. The Chief Zoning Administrator's determination in this matter will become effective after an elapsed period of ten (10) days from the date of this communication unless an appeal therefrom is filed with the Board of Zoning Adjustment.

FINDINGS OF FACT

After thorough consideration of the statements contained in the application including the affidavit from the co-applicant's Petroleum Engineer, the statements made at the public hearing before the Chief Zoning Administrator on July 11, 1967, the communications from the Councilman from the District, the individual letters and substantial petitions both from property owners and tenants in the surrounding community both in favor and in protest to granting the request, the communications from the attorney representing some of the protestants, the communication dated July 5, 1967 to the Petroleum Administrator from the Chief Investigator of the Department of Building and Safety concerning investigation and certain recommendations with respect to controlling noise and odors complained of by some neighbors, the communication from the Vice President of the Occidental Petroleum Corporation dated July 11, 1967 outlining steps which have already been taken to eliminate the source of complaints, correspondence with the applicant-operator with respect to a tentative determination and suggested terms and conditions, and the proceedings under Z. A. Case No. 17291 involving applicant's exploratory core hole, City Plan Cases Nos. 18356, 18357, 18358 and 19677 and Ord. Nos. 130340, 130341, 130342 and 133511 which established Oil Drilling Districts U-131, U-132, U-133 and U-150, and Z. A. Cases Nos. 17683 which authorized establishment of the existing controlled drill site, and 18191, 18200, 18201, 18471, 18484 and 18623 which authorized use of the controlled drill site for bottoming wells under the previously mentioned oil drilling districts, all of which are by reference made a part hereof, as well as personal inspection of the subject property and surrounding neighborhood on several occasions and conferences with representatives of the applicant, the protestants, the Petroleum Administrator and the City Councilman concerning both the current proposal and complaints concerning some of the problems resulting from drilling activities on the existing controlled drill site, I find as follows:

1. The existing controlled drill site which is being utilized for drilling and producing oil wells under Oil Drilling Districts U-131, U-132, U-133 and U-150 comprising some 400 acres of property under community-type lease to the co-applicant Occidental Petroleum Corporation immediately adjoins on the east the three lots here directly involved. This existing controlled drill site, for the reasons stated therein, was authorized under Z. A. Case No. 17683 and was developed by the co-applicant at considerable expense as the first major innovation in landscaping and

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architectural treatment for this type of urbanized oil drilling site. When the oil drilling districts in this vicinity were established, it was contemplated that this controlled drill site would be utilized for developing the surrounding districts since the ordinances creating these districts specifically and currently prohibit establishment of a controlled drill site therein and require that the district be developed from a drill site outside thereof with the ordinance creating District U-131 being the only one which permitted the Zoning Administrator to authorize a drill site therein. Furthermore, on the basis of results from the core hole drilled under Z. A. Case No. 17291, co-applicant believed only one small drill site would be necessary to drill and develop oil reserves from the one productive sand found in that exploratory test. To date, twelve successful oil wells have been drilled and completed on the drill site with both the oil and gas encountered far exceeding in quantity and quality the reserves expected from the core hole described above and upon which present production facilities were based. In fact, these drilling activities together with the operations of co-applicant's competitors, have confirmed that there is a major east/west anticline extending the full 7000' length of the applicant's leased area and with at least three known separate thick productive sands in this anticline. Most significant is the recent discovery of a deep gas-condensate zone which requires special producing facilities and for which no preparations were made on the present limited site. The ordinances establishing the four oil drilling districts being developed from this controlled drill site authorized the Zoning Administrator to initially permit a maximum of 20 wells bottomed under the collective districts, but based upon the results of the existing wells, the City Council by specific action increased authorization for a maximum of 44 oil wells and there is now pending before the City Council a request for and a recommendation by the City Administrative Officer to permit a number of additional wells under District U-150.

2. Although there is room on the portion of the drill site easterly of Oakhurst Drive where surface drilling operations are permitted, to accommodate drilling of the additional oil wells which have already been authorized, the existing production facilities on the limited portion of the site westerly of Oakhurst Avenue are only sufficient to handle the production from the existing wells (currently approximately 8000 bbl. of oil per day plus extensive gas) and are inadequate to handle production from additional wells which the applicant is obligated to drill for efficient development and to comply with lease requirements. It is essential to provide additional production facilities in anticipation of production

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rates of 15,000 to 20,000 bbls. per day or curtail production from the existing and future wells which will greatly reduce royalty returns to the hundreds of landowners who participate in the community-type leases. The unexpectedly large volumes of gas which have been encountered necessitate additional facilities and compressors to conform the same to pipeline specifications. There is no vacant land available in the vicinity upon which these needed additional production facilities can be established. Applicant has already acquired some adjacent apartment house sites north of the site but use thereof would involve expanding the drill site into a residentially zoned neighborhood. The most logical place to expand the facilities is on the commercially zoned property to the west here directly involved, which is owned by the applicant individual but under option to the applicant oil company. Expansion onto the involved property would require removal of a popular neighborhood market but we understand both the owner of the property and the lessee operator of the market fully approve of the proposal since the market has experienced a steady reduction in patronage due to competition of nearby more modern supermarkets. WE also understand the popular meat department in the subject market has plans to relocate in the general neighborhood.

3. The determination under Z. A. Case No. 17683 which authorized the present controlled drill site recognized that the site was not the most appropriate for this type of use and was rather limited but under proper development standards and controls would be the least objectionable to the general community than any other site which could be assembled in the area. As would probably be the case with respect to any drill site in this quality neighborhood, there was some protest from surrounding property owners against the original establishment of the controlled drill site. Due to this fact and the sensitive nature of the operations, very stringent regulations and controls were developed and the applicant oil company has invested considerably more than the usual amounts into attractively developing the site, constructing the architecturally designed oil drilling structure and in endeavoring to control all objectionable features of the operation. Nevertheless, there has been persistent complaints by some of the original objectors and some of the tenants in the neighborhood concerning certain features of the oil drilling activities on the site and there has been some negligence on the part of the applicant oil company in meticulously complying with the conditions of the extant grant and particularly in controlling the activities of the employees on the site and operators of trucks and equipment which services the site. Permitting any expansion of the production facilities without the applicant-operator first demonstrating its ability to comply with the details and intent of the

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applicable conditions controlling activities on the present drill site and without further conditions and limitations on the development and use of the expanded portion of the site and continued activities on the current site would be detrimental to the general public welfare and the best interests of the surrounding property owners and their tenants. However, under the conditions, limitations and further controls outlined above, and which have been reviewed and agreed to by the applicant oil company, granting the request and permitting expansion of the controlled drill site onto the here involved property only for the purpose of providing additional production facilities would not involve these objections, should serve to improve conditions and eliminate the source of most of the complaints concerning activities on the present site and would assist the applicant oil operator in more efficiently removing the valuable hydrocarbons which it has established are present under most of its community leases in the neighborhood, and comply with the expressed desire of the City Council that there be no additional drill sites established by the applicant to develop the subject four oil drilling districts. Although there is protest from some of the near property owners against the subject application, it appears obvious to the Administrator that there would be equal or even more vigorous protest concerning enlargement of the drill site in any other manner or the establishment of a second controlled drill site in the general area to serve one or more of the adjacent three oil drilling districts.

Very truly yours,

HUBER E. SMUTZ
Chief Zoning Administrator

HES:eds
cc: Councilman Edmund D. Edelman
Petroleum Administrator
Lyall A. Pardee, City Engineer
Director of Planning
Public Utilities & Transportation
Street Tree Division, Bur. of St. Maint.
Opening & Widening Division
L. A. County Health Dept.
L. A. County Assessor
State Regional Water Quality Con. Bd.
Richard S. Volpert
Paul Parker, Editor, Pico Post
Lee McFarland
✓Joseph Stell & Arthur S. Levine green
✓Mrs. Jennie Schneider green
✓Jeffrey Gradow green

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SUMMARY OF PUBLIC HEARING

Z. A. CASE NO. 18893
DETERMINATION OF CONDITIONS
AND METHODS OF OPERATION

PETITIONER: ROSE FINK and OCCIDENTAL PETROLEUM CORP.

An application for Determination of Conditions and Methods of Operation on a site comprising Lots 1037, 1038 and 1039, Tract No. 6380, located in the C2-1-0 Zone at the northeasterly corner of Pico Boulevard and Cardiff Avenue, Beverlywood District, and Oil Drilling District U-131, to permit expansion onto said site of the existing Controlled Oil Drilling Site authorized under Z. A. Case No. 17683 on adjoining property to the east and extending along Pico Boulevard to Doheny Drive, with said proposed expansion area of the controlled drill site to be utilized only for additional production facilities for oil and gas from existing wells or wells proposed to be drilled on the portion of the drill site between Oakhurst and Doheny Drive, application states existing market building will be removed and site will be improved with attractive enclosing walls and buildings similar to the adjoining site and no drilling from proposed expanded area (existing parking lot north of alley to be retained for employee parking), as more particularly set forth in detail on the application, maps and exhibits on file.

CHIEF ZONING ADMINISTRATOR HUBER E. SMUTZ conducted a public hearing on this application on Tuesday, July 11, 1967 at approximately 9:00 a.m. in Room 561-A Los Angeles City Hall.

APPEARANCES IN SUPPORT

Richard Volpert, Attorney
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Sanford Eschner, Petroleum Geologist
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Gene Rice, Petroleum Engineer
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Los Angeles

(appearances continued)

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APPEARANCES IN SUPPORT (continued)

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COUNCILMAN'S OFFICE

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Field Secretary to Councilman Edelman
Room 336
Los Angeles City Hall

Robert Freeman
Office of Councilman Edelman
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Dov Malkin
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APPEARANCES IN OPPOSITION (Continued)

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Los Angeles

William Zuckerman
9215 Alcott Street
Los Angeles

Harry Katz
9221 Alcott Street
Los Angeles

REBUTTAL

Richard Volpert

DISPOSITION

Under advisement -- written determination to follow.

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ADMINISTRATOR'S CONCLUDING REMARKS

Obviously, I think that it is apparent to all those present that I couldn't possibly evaluate the testimony that has been presented on both sides and make a fair analysis of the application that is here before us.

I recall very definitely that when these Oil Drilling Districts were created, there was a protest fromsome of the same speakers that are here today opposing the creation of the District, and this happens in many of the situations that come to our attention.

The City Council has made a determination based upon apparently the insistence of not just a majority, but 75% or 80%, 90% of the property owners in the area that they favor extraction of this mineral wealth, oil, and based upon this insistence of the property owners, the City Council has created Oil Drilling Districts.

We have to have an oil drilling site somewhere in the district. I think it stands to reason that some people are discommoded to some extent by the presence of an oil drilling site, no matter where you locate it. Our obligation is to see that the operations on such an oil drilling site create the minimum amount of discomfiture or inconvenience to surrounding property owners.

The City Attorney has advised us in several opinions, that we are obligated to permit an oil drilling site and in his latest opinion set forth with respect to this problem in discussing the whole subject of zoning, that in the application of zoning, no matter what type of use you are considering, some people are inconvenienced, but zoning and the whole application of zoning has to be based upon the general public welfare and the greatest good to the greatest number of people, and some people apparently are affected more seriously than others in the application of zoning and zoning regulations, so it would be, I think, utterly impossible to think that this problem before us could be resolved with everybody being completely in favor and no possible complaints with respect to the opposition, but our job is to try to minimize those complaints, and that is the way we intend to approach this particular problem.

I am not too impressed with some of the complaints that have been made about the owenrs of apartment houses, the rental problem. I don't like to make a personal reference, but my wife and I happen to own a 7-unit apartment and I know every problem that anyone of you can bring up about tenants and vacancies.

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I have three vacancies right now. I had two vacancies for over a year, so this question of vacancies doesn't impress me a bit. You've got vacancies all over town and it is a general problem and no one can tell me it can be traced directly to the oil drilling, although there may be some association and we can consider these approaches and know exactly what you are speaking of in your problem with tenants. My taxes went up. Do you think I could get any raise in rent without threats of moving? A couple moved out and the others requested a reduction, so I know every one of the problems you are mentioning.

We have had suggestions made to us on some of our other oil drilling sites about this matter of putting a more pleasant odor in the mud and the Diesel fuel and things used on the site, and I think this has merit, irrespective of any expansion of production facilities, the control of features on the present drill site in this regard; however, one speaker mentioned perfume and we aren't drilling for perfume but oil, and every one has a different selection of the types of odors that they may like.

I recall one of the most vigorously opposed hearings I ever conducted was one where they wanted to put a perfumed candle factory on commercially zoned property and these people complained about the odor, so even if you had Chanel No. 5 coming out of the oil drilling, some people would be offended by that particular odor, I assure you, so the best we can do is try to find a neutral odor that won't offend everybody.

I am sure that some of the problems concerning this proposal may stem from some sentiments, either one way or the other, with respect to Norm's Market and we have had this come up in other zoning problems. While it is corollary to this request, we have no control over whether a market stays in the particular locality or moves elsewhere, and we see them coming and going just like we see restaurants come and go and I think we have to discount that feature.

Perhaps there is emotion that may be in some people's minds with respect to the proposal here before us, but we do have to consider the element of what are the alternatives, are there any alternatives and frankly, I question that there is any alternative except one that would probably just transfer any burden or any complaints from one area to another area, so in the long run we wouldn't be solving the problem. It would be like when you oil one squeaky wheel, then the next wheel starts squeaking and then you have to oil it, and I am going to do my best to try to evaluate this matter and try to come up with some kind of a sensible answer. We will take this matter under advisement and evaluate it.

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Incidentally, I have been in this zoning game now for 41½ years. I have conducted thousands of hearings, read thousands of petitions both for and against and that is why we don't put too much credence in petitions, because we know how signatures are obtained on both sides of the question, whether by those in objection or not. Some of the letters withdrawing their names indicate that there may have been some misrepresentation on both sides of this matter, just not by one side. Well, thank you for your attention.

L. Goldberg
Hearing Reporter

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ZA-1989-17683-PA2-1A

EXHIBIT K

Settlement Agreement

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SETTLEMENT AGREEMENT

This SETTLEMENT AGREEMENT (the "Agreement") is entered into effective as of the date of last execution shown opposite the signature blocks below (the "Effective Date"), between the CITY OF LOS ANGELES, a municipal corporation and local public agency, the CITY COUNCIL OF THE CITY OF LOS ANGELES, a local public agency, (collectively these two parties are sometimes referred to herein as "City"), NEIGHBORS FOR A SAFE ENVIRONMENT, a California nonprofit corporation ("NASE"), RAE DRAZIN, Ph.D., an individual, MINA SOLOMON, an individual, (NASE, Drazin and Solomon are sometimes collectively referred to as "Petitioners"), and BREITBURN ENERGY COMPANY LLC, a California limited liability company ("BreitBurn"). The purpose of this Agreement is to settle litigation relating to the approvals for the construction and operation of the West Pico Drillsite Modernization Project, Los Angeles County, California.

RECITALS

A. In 1999, BreitBurn applied for a change in its Determination of Conditions and Methods of Operations for an existing drillsite located at 9101 West Pico Boulevard, Los Angeles, California (the "Project"). The Project calls for the modernization of the drillsite and the recovery of additional oil reserves and includes, among other things, the raising of the exterior wall, the enclosure of the drilling and workover rig in a soundproofed and architecturally treated structure, and the building of an enclosed support building. The Project also includes the removal of the existing diesel workover rig. The Project also removes prior limitations on permissible days and hours for redrilling and reworking of wells.

B. The environmental assessment process began in 1998. A Draft EIR was completed and distributed for comments on April 15, 1999. The Final EIR was issued by the City in October of 1999.

C. The Zoning Administrator held a public hearing on December 2, 1999 (ZA Case No. 17683-PAD). The Zoning Administrator issued her decision on April 5, 2000. That decision approved a modification of the existing conditions and methods of operation for the drillsite and imposed 78 conditions on the approval.

D. The Petitioners filed an appeal of the Zoning Administrator's decision to the Board of Zoning Appeals ("BZA"). A public hearing was held before the BZA on May 23, 2000 (BZA Case No. 2000-1697). The BZA approved certification of the EIR, the adoption of the Mitigation Monitoring Plan and adopted the environmental findings made by the Zoning Administrator. The BZA then denied the appeal and adopted the plan approval and conditions imposed by the Zoning Administrator, with corrections recommended by the Zoning Administrator ("Plan Approval"). The Plan Approval was not further appealable.

E. The Petitioners appealed the BZA decision on the EIR certification to the City Council. A public hearing was held before the full City Council on October 25, 2000 (Council File No. 2000-1842). The City Council voted in favor of certifying the EIR and adopting the findings of the BZA as the findings of the City Council. The Notice of Determination of the certification was filed with the County Clerk the same day.

F. The Petitioners filed a petition for writ of mandate in the Superior Court of Los Angeles County styled *Neighbors For A Safe Environment, etc., et al. v. City of Los Angeles, et al.*, LASC No. BC 240760 (the "Action") seeking to set aside the certification of the EIR and the underlying permit approvals.

G. On May 9, 2001, the Superior Court,Judge David P. Yaffe, presiding, entered a judgment ordering the clerk to issue a peremptory writ of mandate ordering the City to set aside its certification of the EIR and related approvals. The Statement of Decision of the Court indicates that the Court was concerned about the EIR's response to questions concerning nighttime noise.

H. On May 16, 2001, the City mailed to interested persons an Addendum to the EIR addressing the issue of nighttime noise and informing them of further proceedings before the City Council on May 22, 2001. The Addendum concluded that noise from the facility at night will not alter any resident's ability to sleep. The Addendum and related City Staff report were circulated to approximately 800 owners and occupants of all properties surrounding the Project. The Petitioners filed objections to the report with the City.

I. On June 1, 2001, BreitBurn and the City filed a Notice of Intention to Move for a New Trial.

J. The parties have reached an agreement resolving all of the issues in the Action and wish to fully and finally terminate the Action pursuant to this Agreement. By entering into this Agreement, BreitBurn and the City have agreed to undertake additional measures relating both to nighttime noise, air quality and enforecement at the Project.

NOW, THEREFORE, in consideration of the mutual covenants and conditions contained herein, and for other good and valuable consideration, the adequacy and receipt of which is hereby acknowledged, the parties agree as follows:

AGREEMENT

1. Obtaining of air quality data

a. On occasions to be prescribed by the Air Quality Consultant (defined in Item 1(d), below), the Air Quality Consultant will sample fugitive and other emissions inside the derrick structure. BreitBurn will, as far in advance as is practicable and at least 24 hours in advance, inform the Air Quality Consultant of the timing of those operations most likely to produce such emissions, including those periods when solvents are utilized. The Air Quality Consultant will take samples at representative times and will determine, in conjunction with BreitBurn, the relative percentages of time the facility undertakes various operations.

b. The Air Quality Consultant will order that the samples be tested for such substances as shall be specified by the Risk Assessment Expert (defined in Item 2, below).

c. The analysis of the emissions analyzed pursuant to this agreement will be performed by an independent laboratory certified by the State to perform such tests.

d. NASE will designate a consultant (the "Air Quality Consultant") who shall be a certified industrial hygienist or an individual with a minimum of 5 years experience in air emissions sampling in the Los Angeles Basin.

e. BreitBurn may request and thereupon will be given split samples obtained by the Air Quality Consultant under this section for the purpose of BreitBurn performing duplicate testing at its expense.

f. On occasions to be determined by the Air Quality Consultant, and simultaneous with the obtaining of the samples within the BreitBurn facility, the Air Quality Consultant will obtain ambient air quality samples upwind and downwind from the BreitBurn facility. Those samples will be analyzed at the same laboratory for the same substances as were tested for within the BreitBurn facility.

g. BreitBurn and NASE will deliver to each other, and to the Risk Assessment Expert (described in Item 2, below) a copy of the laboratory results of all testing performed under the provisions of this section, and of the reports of the Air Quality Consultant as to the manner of taking the samples and the rationale for such manner, and the determination concerning the various operations at the facility pursuant to subsection 1(a), in order that the risk assessment, described in the next section, accurately characterizes the emissions from the facility over time.

2. Development of Risk Assessment

a. NASE will designate a toxicologist who shall be a Ph.D. level Diplomat of the American Board of Toxicology (the "Risk Assessment Expert").

b. The Risk Assessment Expert will prepare and deliver to NASE, to BreitBurn, and to the Zoning Administrator a report (the "Risk Assessment Report") detailing the professional conclusions of the Risk Assessment Expert concerning the incremental risk to the nearest off-site human receptors of cancer and other indicated diseases posed by operations at the BreitBurn facility. The Risk Assessment Report will specifically address the population in close proximity to the site, e.g., children of school age. The Risk Assessment Report, including all modeling, will be conducted in a manner consistent with relevant and applicable guidance documents published by the United States Environmental Protection Agency and the California Environmental Protection Agency. The Risk Assessment Expert shall exclude from his or her analysis of incremental risk all chemicals and risks associated with ambient air at the site received from any sources other than the BreitBurn facility.

3. Noise

a. In carrying out Conditions No. 77 and 78, and in addition to the other Conditions imposed, the Zoning Administrator will consider, based on data and reports, if any, submitted by BreitBurn, NASE or any neighbor, the extent to which the nighttime operations of the BreitBurn facility disturb the sleep of surrounding residents.

b. In developing the noise requirements prescribed by the City, BreitBurn and its consultant shall consider, and the Zoning Administrator will review, the properties of sounds generated by the facility, in addition to decibels, that may contribute to the disturbance of the community at night and the data gathered pursuant to subsection 3(a).

c. If the Zoning Administrator determines that nighttime noise from facility operations creates an unreasonable impact on nearby residents, the Zoning Administrator shall consider such additional mitigating measures as shall be required to eliminate any such impact. In the event that the Zoning Administrator determines that nighttime operations cannot be sufficiently mitigated by other means to eliminate unreasonable impacts, the Zoning Administrator shall order that workover or other operations not occur during the nighttime hours.

d. Actions taken by the Zoning Administrator shall be subject to normal City procedures and appeals.

4. Enforcement

a. If at any time the Risk Assessment Expert determines that the operations at the BreitBurn facility pose a risk of cancer of greater than one in a million (1×10^{-6}), the Risk Assessment Consultant shall report that finding and recommendations to the Department of Building and Safety, the Zoning Administrator, the South Coast Air Quality Management District, and the Division of Oil and Gas.

b. At the Review of Conditions required by Condition No. 78 imposed by the BZA and adopted by the City Council, to occur two years after construction and the issuance of a Temporary or Permanent Certificate of Occupancy, the Zoning Administrator will consider the findings and conclusions of the Risk Assessment Expert and impose any additional conditions deemed appropriate or within the Zoning Administrator's continuing jurisdiction under Condition No. 77 or otherwise. If the report of the Risk Assessment Expert indicates that the operations at the BreitBurn facility pose a risk of cancer of greater than one in a hundred thousand (1×10^{-5}), BreitBurn will request a public hearing and a public hearing will be deemed warranted pursuant to Condition No. 78. (This provision does not otherwise limit the Zoning Administrator's discretion to set the matter for public hearing.) Within ninety (90) days prior to the fifth anniversary of the first review held

pursuant to Condition No. 78, and on each five-year anniversary thereafter, BreitBurn will request an additional review of conditions pursuant to the procedures prescribed in Condition No. 78 and the Zoning Administrator will conduct a review of conditions as prescribed in Condition No. 78 and will issue a report of its review and schedule a further public hearing, if warranted. Such report shall be promptly forwarded to NASE, BreitBurn and the applicable Neighborhood Council.

c. For a period of two years following completion of construction, the City will designate one or more individuals at the managerial level of the Department of Building and Safety, who will receive complaints regarding odors or noise at the BreitBurn site on a 24-hour basis. The Department of Building and Safety will forward logs of such complaints to NASE and the Zoning Administrator's office. The Department of Building and Safety will report complaints within two (2) hours to the appropriate agency; e.g., the Police Department for noise; the South Coast AQMD for odors.

5. Financial Provisions

a. BreitBurn will pay:

1. $65,000 to NASE for attorney's fees and costs in this matter;

2. $25,000 to NASE to be used by it to engage technical advisors and perform testing not otherwise provided for in the Agreement and/or for other community projects;

3. Invoices from the laboratories utilized by NASE, the Air Quality Consultant, or the Risk Assessment Expert to analyze the air quality samples;

4. Invoices from NASE or the Air Quality Consultant described in Section 1 for the work described therein;

5. Invoices from the Risk Assessment Expert or from any other costs associated with the risk assessment work described in Section 2 for the work described therein;

6. Any fees assessed by the City for the services described in Section 4(c);

7. Any other reasonable and necessary costs of carrying out the provisions of the Agreement.

8. The maximum cumulative total that BreitBurn shall be required to pay for items 3 through 5 above, shall not exceed $150,000. No expense of BreitBurn for split samples, consultants to BreitBurn or any other voluntary expenditure of BreitBurn shall be included within said $150,000. BreitBurn shall send statements to NASE periodically showing the sums expended in conjunction with such activities. NASE shall contractually require the Air Quality Consultant and the Risk Assessment Expert to perform their services in a manner prescribed by this Agreement, but BreitBurn shall promptly pay their duly presented invoices irrespective of any disagreement that BreitBurn may have concerning their findings and conclusions or their manner of performance.

b. Items 1 and 2 above shall be due and payable immediately upon the complete implementation of the resolution of dispute provisions of Section 6 this Agreement, including the right of BreitBurn to proceed immediately to complete and operate the project without any further administrative or legal proceedings as set forth in Section 6(f). Items 3 through 7 shall be due and payable upon normal commercial terms upon presentation of invoices.

6. Resolution of Dispute

a. Within three days of the approval of the Agreement by all parties thereto, each of the Petitioners, through a letter submitted to the City Clerk by their counsel, will withdraw their objections before the City to the Project and will support the making of any related actions of the City necessary to implement the Plan Approval and this Agreement.

b. Following approval by the City of this Agreement, each of the Petitioners will stipulate to, and join in any motion or request made by BreitBurn to, set aside the judgment previously entered in this case and dismiss the action with prejudice and request that the Court enter a new judgment denying in its entirety the requested writ of mandate or in the alternative to enter an order unconditionally quashing the writ of mandate previously issued. That stipulation and/or joinder shall recite that the parties have reached a settlement in this case, and that costs and fees shall not be awarded to either party under the judgment to be entered. Should the judgment of the Court thereafter award costs or fees to either party, such party shall not seek to enforce that provision.

c. If the Superior Court will not set aside the Judgment heretofore entered, and/or will not quash the writ of mandate heretofore entered and served, the Petitioners will join in supporting and will not thereafter object to the return to the Superior Court's writ of mandate to be filed by the City and describing its actions as in accordance with this Agreement as in satisfaction of the requirements of the writ.

d. Neither party shall make any post-judgment motion nor seek to appeal the judgment entered, following resolution of this matter in accordance with this Agreement.

e. Nothing in this Agreement shall constitute an admission by any party of any fact, nor shall it constitute a waiver of any right or objection of any petitioner to the facility or any of the operations thereof in the future, outside of the context ofthe Action.

f. It is the intention of the parties that the Project be allowed to proceed immediately in accordance with the prior conditions of approval as amended only by the terms of this Agreement. In the absence of the complete implementation of the resolution of dispute provisions of this Agreement, including the right of BreitBurn to proceed immediately to complete and operate the project without any further administrative or legal proceedings, it is the intent of BreitBurn and the City to file an appeal from the judgment entered by the Superior Court on May 9, 2001. A Notice of Entry of Judgment was served by Petitioners in this case on May 17, 2001. Pursuant to California Rules of Court section 2(a) provides that a notice of appeal must be filed no later than July 16, 2001. If the City does not take the actions set forth in subsection 6(b) or the Court has not accepted the actions of the City as in compliance with the writ or set aside the writ as provided in subsections 6(b) or (c), on or before July 16, 2001, then, unless otherwise agreed to by all parties, any party thereto may file a notice of appeal on such date and this Agreement shall terminate and be void.

7. Knowing Agreement

The parties each affirms that he/she/it has carefully read the foregoing and understands that this is a settlement agreement, and further affirms that each has reviewed and discussed the same with its counsel and knows the contents herein and has discussed the legal effect hereof and that the party executing the same does so of its own free act.

8. Entire Agreement

This Agreement embodies the entire understanding of and agreement between the parties as of the Effective Date and the parties each hereby agrees that the terms and provisions of this Agreement can only be changed, altered, or modified in any respect, by an instrument in writing and signed by all of the parties.

9. California Law

This Agreement shall be governed by, construed and enforced in accordance with the laws of the State of California and enforcement of this Agreement may be had in any court of appropriate jurisdiction in California.

10. Binding Effect and Benefit

This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective successors and assigns.

11. Authority of Signatories

All persons executing this Agreement on behalf of any entity hereby represent that they have proper authority to do so and to bind the entity to it.

12. Interpretation of Agreement

The parties have all participated in the drafting and preparation of this Agreement. Hence, in any construction to be made of this Agreement, the same shall not be construed against or in favor of any party on the basis that it or another proposed specific language.

13. Counterparts

This Agreement may be executed in two or more counterparts, each of which shall be deemed an original but all of which together shall constitute one and the same instrument. This Agreement will become effective only when executed by all parties.

///signatures follow on next two pages///

BREITBURN ENERGY COMPANY LLC. a California limited liability company

Dated: June ___, 2001.

By:_____
Randall H. Breitenbach
Co-President

CITY OF LOS ANGELES AND CITY COUNCIL FOR THE CITY OF LOS ANGELES

Dated: June ___, 2001.

By:_____

NEIGHBORS FOR A SAFE ENVIRONMENT, a California nonprofit corporation

Dated: June ___, 2001.

By:_____
Dr. Rochelle Feldman
President

NEIGHBORS FOR A SAFE ENVIRONMENT, a California nonprofit corporation

Dated: June ___, 2001.

By:_____
Rae Drazin, Ph.D.
Vice-President

NEIGHBORS FOR A SAFE ENVIRONMENT, a California nonprofit corporation

Dated: June ___, 2001.

By:_____
Mina Solomon
Member of the Board

Dated: June ___, 2001.

RAE DRAZIN, Ph.D., an individual

Dated: June ___, 2001.

MINA SOLOMON, an individual

Additional Signature Page to Settlement Agreement
between the City of Los Angeles, et al., with respect to litigation relating to the approvals for the construction and operation of the West Pico Drillsite Modernization Project, Los Angeles County, California

BREITBURN ENERGY COMPANY LLC, a California limited liability company

Dated: June ___, 2001.

By:_____
Halbert S. Washburn
Co-President

BREITBURN ENERGY COMPANY LLC. a California limited liability company

Dated: June 8, 2001.

By:_____
Randall H. Breitenbach
Co-President

CITY OF LOS ANGELES AND CITY COUNCIL FOR THE CITY OF LOS ANGELES

Dated: June ___, 2001.

By:_____

NEIGHBORS FOR A SAFE ENVIRONMENT, a California nonprofit corporation

Dated: June ___, 2001.

By:_____
Dr. Rochelle Feldman
President
NEIGHBORS FOR A SAFE ENVIRONMENT, a California nonprofit corporation

Dated: June ___, 2001.

By:_____
Rae Drazin
Vice-President

NEIGHBORS FOR A SAFE ENVIRONMENT, a California nonprofit corporation

Dated: June ___, 2001.

By:_____
Mina Solomon
Member of the Board

BREITBURN ENERGY COMPANY LLC. a California limited liability company

Dated: June ___, 2001.

By:_____
Randall H. Breitenbach
Co-President

CITY OF LOS ANGELES AND CITY COUNCIL FOR THE CITY OF LOS ANGELES

Dated: June ___, 2001.

By:_____

NEIGHBORS FOR A SAFE ENVIRONMENT, a California nonprofit corporation

Dated: June 7, 2001.

By:_____
Dr. Rochelle Feldman
President

NEIGHBORS FOR A SAFE ENVIRONMENT, a California nonprofit corporation

Dated: June 8, 2001.

By:_____
Rae Drazin, Ph.D.
Vice-President

NEIGHBORS FOR A SAFE ENVIRONMENT, a California nonprofit corporation

Dated: June 10, 2001.

By:_____
Mina Solomon
Member of the Board

NEIGHBORS FOR A SAFE ENVIRONMENT, a California nonprofit corporation

Dated: June 8, 2001.

RAE DRAZIN, Ph.D., an individual

Dated: June 10, 2001.

MINA SOLOMON, an individual

Additional Signature Page to Settlement Agreement between the City of Los Angeles, et al., with respect to litigation relating to the approvals for the construction and operation of the West Pico Drillsite Modernization Project, Los Angeles County, California

BREITBURN ENERGY COMPANY LLC, a California limited liability company

Dated: June 8, 2001.

By: _____
Halbert S. Washburn
Co-President

INITIAL SUBMISSIONS

The following submissions by the public are in compliance with the Commission Rules and Operating Procedures (ROPs), Rule 4.3a. Please note that "compliance" means that the submission complies with deadline, delivery method (hard copy and/or electronic) AND the number of copies. The Commission's ROPs can be accessed at **http://planning.lacity.org**, by selecting "Commissions & Hearings" and selecting the specific Commission.

The following submissions are not integrated or addressed in the Staff Report but have been distributed to the Commission.

Material which does not comply with the submission rules is not distributed to the Commission.

ENABLE BOOKMARKS ONLINE:

**If you are using Explorer, you will need to enable the Acrobat toolbar to see the bookmarks on the left side of the screen.

If you are using Chrome, the bookmarks are on the upper right-side of the screen. If you do not want to use the bookmarks, simply scroll through the file.

If you have any questions, please contact the Commission Office at (213) 978-1300.

Chatten-Brown, Carstens & Minteer LLP

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August 3, 2021

Via Email (apcwestla@lacity.org)

West Los Angeles Area Planning Commission
City of Los Angeles
200 N. Spring Street
Los Angeles, CA 90012

Re: Appeal of Zoning Administrator Determination for Plan Approval at West Pico Drill Site; Case Nos. ZA-1989-17683-PA2, ENV-2020-1328-CE, ZA-1989-17683-PA2-1A

Honorable Commissioners:

On behalf of Neighbors for A Safe Environment (NASE), a California nonprofit corporation seeking to protect neighborhoods from the impacts of oil drilling and production, we write regarding the appeal of the Zoning Administrator (ZA) Determination for Plan Approval at the West Pico Drill Site.

NASE understands that there are two appeals before the Commission, both ours and an appeal filed by Council District 5 (CD5). NASE's appeal includes details regarding violations at this drill site that are based on extensive research regarding legal requirements and activities that have occurred at the West Pico Drill Site. In reviewing the appeal statement filed by CD5, we discovered it includes factual inaccuracies and does not include several major legal violations addressed in NASE's appeal. NASE sent communications regarding these issues to CD5. To ensure that the Commission has the most accurate record before it when reviewing this matter, we have attached that letter identifying the need for factual clarifications. (Attachment 1.)

The attached letter to CD5 identifies several violations not contained in the CD5 appeal, including, but not limited to: the illegal split of the West Pico Drill Site; 24 illegal well drilling and conversion projects that have taken place at the drill site without Zoning

Administrator approval or environmental review; and repeated and ongoing violations of CEQA. These are significant violations that we urge the Commission to address.

To ensure the Commission has relevant information before it to address the significant issue of the 24 illegal well drilling and conversion projects, we have also attached a copy of a critical document on this issue from the ZA case file. The site operator, PCEC, sent an email to the ZA on June 19, 2020, acknowledging the execution of these 24 projects without the required ZA approval and CEQA review. The email identifies the well projects by individual well name, date, and work performed, and as such must be considered as part of your assessment in this matter. (Attachment 2.)

Further, the attached letter to CD5 (Attachment 1) identifies the ultimate relief NASE is seeking as a result of our appeal, through a new ZA review and environmental review pursuant CEQA. We request the Commission carefully consider the following remedies:

- voiding the 2000 Zoning Administrator approval and any permits based upon it because it illegally split the West Pico Drill Site, in violation of the prohibition on more than one drill site in Oil Drilling District U-131;
- requiring the immediate plugging of all idle wells and any illegally drilled, redrilled or converted wells;
- revisions to the conditions of approval for the site to mitigate ongoing impacts to the community, to comply with the City's Municipal Code requirements, and to be consistent with the terms of the settlement agreement regarding this drill site between NASE, the City and the site operators.

Thank you for your time and consideration in this matter.

Sincerely,

Amy Minteer

Enclosures

ATTACHMENT 1

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310-798-2409

July 16, 2021

Via Email (Paul.Koretz@lacity.org)

Councilmember Paul Koretz
Council District 5
City of Los Angeles
200 N. Spring Street, Room 440
Los Angeles, CA 90012

Re: Appeal of Zoning Administrator Determination for Plan Approval at West Pico Drill Site; Case Nos. ZA-1989-17683-PA2, ENV-2020-1328-CE, ZA-1989-17683-PA2-1A

Dear Councilmember Koretz:

On behalf of Neighbors for A Safe Environment (NASE), a California nonprofit corporation seeking to protect neighborhoods from the impacts of oil drilling and production, we write to recognize that you have taken the unusual step of submitting an administrative appeal of the June 2, 2021 Zoning Administrator Determination for Plan Approval at the West Pico Drill Site ("ZA Determination") on behalf of Council District 5 (CD5). As you are aware, NASE has also filed an appeal of this determination and has actively engaged in the administrative process. NASE has informed me that your Land Use Deputy, Daniel Skolnick, contacted Rabbi Yonah Bookstein to set up a time to "discuss the advocacy for the appeal." While it is my understanding the Rabbi has not yet received a response regarding the times he provided for an appointment with Mr. Skolnick, NASE has asked me to take up Mr. Skolnick's invitation and open the lines of communication.

NASE was dismayed that the ZA Determination found the West Pico Drill Site to be in substantial compliance, despite the mountain of evidence to the contrary, and that it required no further protections for the community. NASE filed its appeal of the ZA Determination to protect the community surrounding this drill site and to ensure the City enforces legal requirements at oil drilling sites generally.

To ensure protections for the community and compliance with legal requirements, we want to make sure the appeal case is as strong possible. To that end, we address the following items in this letter:

- There appear to be substantive factual inaccuracies in the appeal statement CD5 submitted. We have identified the most consequential of these issues in detail below and provide factual information that we believe is essential to the appeal case. NASE believes it would be beneficial to have any substantive errors revised prior to the appeal hearing so that they do not distract or detract from a strong challenge to the ZA's ruling. If you think there are facts to which we are not aware, we would greatly appreciate documentation regarding those issues to ensure our own statements are as accurate as possible as well.

- NASE also requests clarification regarding CD5's proposals for resolving the problems at the West Pico Drill Site included in the CD5 appeal statement, including CD5's requested remedies and its requested process.

- NASE also requests that CD5 support our appeal, including several proposals included in our appeal statement.

I. Factual Clarifications

A. Lack of Compliance with 2001 Settlement Agreement and ZA Conditions.

As set forth in NASE's appeal and many prior submissions to the ZA, the City and West Pico Drill Site operator have violated the 2001 settlement agreement between NASE, the City and the site operator. The CD5 appeal correctly identifies some of these violations, but omits mention of others. Additionally, there are several alleged violations of the settlement agreement set forth in the CD5 appeal that are not factually supported.

- <u>Required Reviews of Conditions:</u> The CD5 appeal contains several important inaccuracies and omissions concerning these reviews:

    - The CD5 appeal claims there was no 2006 plan approval process. (CD5 appeal p. 2.) However, ZA-1989-17683-PA1 was the two-year post-project "Review of Conditions" required by Condition 78 of the 2000 ZA approval (ZA-1989-17683-PAD). It was initiated in 2005 and completed in 2006. Documentation for this review of conditions is included in the case file for this Plan Approval review (PA2).

    - The CD5 appeal correctly identifies that the 5 Year Review of Conditions required by the Settlement Agreement were not held in 2011 and 2016, but

fails to acknowledge that the City was bound by the Settlement Agreement to hold this review and has failed in this obligation.

- The CD5 appeal also states that "the operator did not in 2019 initiate a Plan Approval process," however, 2019 was not a scheduled year for a 5 Year Review of Conditions. Additionally, the operator did initiate submission of a Plan Approval application in 2019, but only after NASE alerted the City of its duty under the Settlement Agreement, triggering the Chief ZA's November 19, 2019 letter ordering a review.

- As set forth below and in NASE's appeal, the City's failure to require timely Plan Approval proceedings in 2010-11 and 2015-16, and the fact that the current review was only initiated at the insistence of NASE, demonstrates the need to revise the conditions of approval for the Drill Site to comport with the requirements of the 2001 Settlement Agreement to enforce the requirement for future reviews.

- Reports on Air Quality Data and Risk Assessment Report: The CD5 appeal states that the reports on air quality data and risk assessment required by the 2001 Settlement Agreement are not in the case file (CD5 appeal pp. 1, 3), suggesting that those reports were never done. However, these reports were prepared one time as required by the 2001 Settlement Agreement and submitted in connection with the 2006 Plan Approval, discussed in the 2006 ZA determination and are included in the City records for this site.

  - The 2001 Settlement Agreement does not require the performance of air quality and risk assessment reports in every 5-year review of conditions. That is why NASE has been requesting new ZA-assigned conditions including, but not limited to, permanent 24/7 emissions monitoring, annual general compliance inspections by the Petroleum Administrator, and writing the Settlement Agreement requirement of 5 Year Reviews into the conditions of use for the site. This monitoring and assessment would provide data for future risk assessment studies and aid in enforcement of existing City laws and assigned conditions.

- Failure to Review Mitigation Measures: The CD5 appeal correctly notes that the "ZA did not review mitigation measures in its letter of determination." (CD5 appeal p. 3.) However, the CD5 appeal does not address the nexus with CEQA created by this required review, which is vital to ensuring adequate and legally enforceable mitigation for the community surrounding the West Pico Drill Site.

- While Section 4b of the 2001 Settlement Agreement extends Condition 78 to require Reviews of Conditions every five years, it is Condition 78 itself, written by the ZA in 2000, that requires these reviews "evaluate the neighborhood impacts of project operations and the efficacy of mitigation measures."

    - In failing to evaluate the efficacy of mitigation measures, the ZA Determination fails to follow the requirements of Condition 78.

- Reviewing and revising mitigation measures to reduce significant environment impacts, cumulative impacts, and redress the failure of mitigation monitoring and enforcement programs must be done through the CEQA process to ensure the revised measures actually address the impacts to the community and are legally enforceable.

    - Instead, the ZA Determination improperly relies on a Class 1 categorical exemption, exempting ongoing activities from environmental review, to legitimize years of illegal actions. It also improperly relies upon a Class 21 exemption for enforcement actions, despite failing to include any corrective enforcement actions.

    - This is why a categorical exemption from environmental review under CEQA was improper and fatal to the integrity of the ZA's Determination, as NASE as pointed out at ZA hearings, in letters submitted to the ZA and in previous communications with CD5.

    - The CD5 appeal does not address the need for CEQA review when identifying the lack of review of mitigation measures. It is our understanding that CD5 has previously argued in favor of reliance on a categorical exemption at this site. NASE urges you to change this position to allow necessary protective measures for the community to be evaluated and to revise your appeal to address the need for environmental review.

B. Open Orders to Comply.

The CD5 appeal refers to open orders to comply that have not been resolved. For the most part, this is not factually correct. The public record shows that true orders to comply from LAFD, SCAQMD, and DOGGR/CalGEM have been resolved and closed.

There is, however, an important issue of idle wells at the site that NASE believes must be specifically addressed.

LAFD issued a February 25, 2020 Idle Well Notice per LAMC 57.5706.3.16.1. While this notice states it is an Order to Comply, the LAFD has not treated such notices as orders to comply. Shortly after this notice was issued, Battalion Chief James Hayden, head of the LAFD Industrial and Commercial Unit that oversees oil wells, was cited in an LA Times article as saying that the LAFD does not enforce Idle Well Notices.[1] The documentary record of Idle Well Notices and LAFD inaction at drill sites across the City substantiates the accuracy of Battalion Chief Hayden's description. The City generally does nothing about idle wells.

NASE is concerned that the City will treat idle wells on the drill site in the same manner it has on other drill sites in the City, and either ignore them after issuing the notice or issue a variance to formally release the operator from the requirements of the idle well notice. As set forth in the April 22, 2021 letter submitted by Professor Salman in this matter, **we urge CD5 to use the Plan Approval appeal as an opportunity to require the plugging of any idle wells on the drill site as both a matter of good public policy and a measure of equity to compensate for the wrongs done at the drill site.**

C. There Can Be Only One Controlled Drill Site in Drilling District U-131.

As clearly documented in NASE's appeal, the West Pico Drill Site is the only Controlled Drill Site allowed in Oil Drilling District U-131 and spans the lots on both sides of Oakhurst Drive. Thus, contrary to claims made by the ZA Determination, the production facilities at 9151 West Pico Boulevard are part of the same Controlled Drill Site and cannot legally be split off as a separate site.

It appears from the statement in the CD5 appeal that "the Plan Approval action is only for a portion of this facility" that CD5 is claiming there are two distinct drill sites on West Pico. (CD5 Appeal p. 1.) NASE urges CD5 to address this lack of clarity and specifically state that there can only be one legal Controlled Drill Site in this drilling district and that oil production activities cannot take place outside of a Controlled Drill Site.

Additionally, as discussed below, NASE also urges CD5 to support NASE's position that permits issued at the West Pico Drill Site pursuant to the illegal split of the site contained in the 2000 ZA approval must be voided, including the 2000 ZA approval itself:

[1] https://www.latimes.com/environment/story/2020-03-05/deserted-oil-wells-los-angeles-toxic-fumes-cleanup-costs.

- LAMC 13.01.E.2.b allows there to be only one site for oil drilling and production activities in Oil Drilling District U-131. A major flaw of the ZA Determination and the 2000 ZA approval is a claim that there are two legal sites.[2]

- LAMC 13.01 defines a Controlled Drill Site as the only kind of ZA-approved land use in "urbanized" districts on which oil drilling and production activities are allowable.

- All of the operator's records with DOGGR/CalGEM, SCAQMD, and for spill prevention and emergency planning, etc., treat the Controlled Drill Site as a single integrated unit with interchangeable street addresses because that is what the Controlled Drill Site is, both in its actual operations and by City law as per LAMC 13.01.

- Despite this, as detailed in NASE's appeal, since the 2000 ZA approval, the so-called "production facility" half of the Controlled Drill Site is operating outside of the law with no standing conditions or Conditional Use Approval, leaving the surrounding community without necessary protections.

- Because the split of the Controlled Drill Site contained in the 2000 ZA approval was issued in clear violation of the City's Municipal Code, that approval and all permits relying upon it should be deemed void pursuant to LAMC 11.02, which declares that permits inconsistent with City Code "shall be void."

- We urge CD5 to join in NASE's arguments regarding the illegal split of the drill site into two sites.

D. Illegal Activities Have Occurred at the Drill Site, Including Illegal Well Drilling.

NASE was surprised to find that the CD5 appeal does not address the fact that since 2000 there have been numerous illegal projects at the West Pico Drill Site. These include **24 illegal well projects** (2 new wells, 12 redrills, and 10 well conversions) plus the illegal installation of microturbines. These illegal projects are all completely documented in the public records of DOGGR/CalGEM and the LAFD. NASE even got the current site operator to stipulate in writing that site operators had executed these

[2] Creating a second Controlled Drill Site would be illegal in Drilling District U-131 because the District has only 70 acres. The ZA made a massive error in 2000 that appears to have illegally split the site in two and the ZA in the 2005-06 PA1 case and now the ZA in the PA2 case has repeated the error.

projects without Code-required ZA reviews and approvals and without required CEQA clearances.

The ZA has not required formal review and approval of these projects by the ZA, as required by LAMC 13.01.H and 13.01.I. This also violates ZA Memo 133, which requires public hearings and prohibits reliance on categorical exemptions from CEQA for projects to drill, re-drill or convert wells. The current ZA Determination requires nothing more than for the Drill Site operator to submit any DOGGR/CalGEM documentation of theses illegal well projects to be submitted to the Office of the ZA.

The ZA attempts to justify this failure to address illegal well projects by referencing Condition 72 of the 2000 approval. That condition addresses only the redrilling of wells, not the drilling of new wells or the conversion of wells. Moreover, Condition 72 is, and was at the time it was adopted, inconsistent with LAMC 13.01.H and 13.01.I, which states that that no City permits shall be issued to drill, redrill, or convert wells without prior discretionary approval by the ZA.

As such, NASE has urged the City to declare all LAFD project and operating permits for the illegally drilled, redrilled or converted wells, as well as the LADBS permits for microturbines, void per the requirements of LAMC 11.02. We urge CD5 to revise its appeal to address these illegal actions and require remediation, including the plugging of illegal wells.

II. CD5 Appeal Requested Remedies and Processes.

The relief requested and the relief available as part of the appeal proceedings is a very important consideration as it can influence whether the appeal will be granted and it needs to serve as protection for the community surrounding the West Pico Drill Site at least until the next 5-year review of conditions. With this in mind, we have several questions regarding the specific relief sought by CD5 and the processes through which CD5 believes it can be achieved.

The CD5 appeal "recommend[s] a revocation hearing for the entire facility." Since this recommendation lacks detail, NASE requests clarification:

- Is CD5 advocating for the revocation of all approvals associated with the West Pico Drill Site, and thus a closure of the drill site, or just a future hearing on issue of revocation?

- If CD5 is recommending revocation and closure of the drill site, NASE appreciates the proposal, but requests additional explanation regarding whether this is actually a viable proposal.

- The CD5 appeal concludes by advocating for the imposition of two additional conditions at the West Pico Drill Site, which appears to be inconsistent with the recommendation for a "revocation hearing"; thus, we request clarification regarding the specific relief sought by CD5.

It is our understanding that Nuisance Abatement/Revocation proceedings are defined by LAMC 12.27.1, and the process is defined in 12.27.1.C, which establishes the findings that must be made in order to allow the City to revoke an approval:

> The Director may require the discontinuance or revocation of a land use or discretionary zoning approval only upon finding that:
>
> (a) prior governmental efforts to cause the owner or operator to eliminate the problems associated with the land use or discretionary zoning approval have failed (examples include formal action, such as citations, orders or hearings by the Police Department, Department of Building and Safety, the Director, a Zoning Administrator, the City Planning Commission, or any other governmental agency); and
>
> (b) the owner or operator has failed to demonstrate, to the satisfaction of the Director, the willingness or ability to eliminate the problems associated with the land use or discretionary zoning approval.

NASE is unclear how such a revocation process would work for the West Pico Drill Site and requests CD5 provide us and other members of the public interested in this issue with detailed information regarding how the process would work.

Additionally, it is our understanding, based on recent statements made by the City Attorney, that environmental review would be required to revoke approvals for a drill site.[3] This is because plugging wells and demolishing a drill site are activities that can have negative environmental impacts even as they eliminate a negative impact on the environment. NASE has not requested environmental review as a delay tactic, but instead wants to ensure any such actions do not result in further impacts to the community. Advocating for revocation of the approvals at the West Pico Drill Site does not allow for legal escape from CEQA.

[3] According to the City Attorney's November 2020 testimony to City Council, environmental review would be required to revoke approvals for a drill site. The City Attorney told City Council that "environmental review under CEQA" will be needed for proposed legislation to phase out oil drill sites via amortization and retroactive setbacks or declarations of non-conforming use due to the potential impacts associated with drill site closure.

NASE is also uncertain whether the findings required by LAMC 12.27.1.C can be made based upon the existing record for this site. Our concern is that there has been a lack of effort by City agencies to order corrections for illegal projects and void permits or to fix failed mitigation measures. Since we want to ensure that the site operator would not be able to easily overturn a revocation for the site, please let us know what evidence CD5 would rely upon to persuade the Director of Planning to make the required revocation findings.

While NASE has proven that there are numerous serious problems at the drill site, we are concerned that the City's failure to conduct general compliance inspections at this site (and other drill sites throughout the City) has hampered the City's ability to document violations and order corrections. For example, while there have been years of illegal drilling, redrilling and well conversions at the drill site, the lack of general compliance inspections has allowed the site operator to take these illegal actions without City Notices of Violation or Orders to Comply. Based on this, NASE has advocated for stronger conditions and annual inspections so that violations can be documented and there is strong evidence in place to shut down well sites when there are serious ongoing violations.

Further, since it is highly unusual for a Council District to file an appeal of a ZA Determination, something we have not previously observed in the City, we have several questions regarding this process. First, since there already had been an appeal of the ZA Determination filed by a local community organization at the time the CD5 appeal was filed, NASE is curious as to why CD5 chose to file its own appeal instead of supporting NASE's appeal and/or providing its recommendations at the APC hearing. Is there an additional benefit to CD5 filing its own appeal? Additionally, how does the City process work when a representative of the City appeals a City determination in its official capacity? For example, would this appeal result in any conflicts if the matter is further appealed to the City Council?

NASE has received questions from community members about the substance of the CD5 appeal and the unusual circumstance of a Council District becoming an appellant against a ZA decision. In addition to sending you this letter to try to correct errors that could detract from the strength of the case to overturn the ZA ruling, NASE also wants to alert you that it is being asked questions which will require responses.

III. Support for NASE Appeal.

As a community organization representing the interests of the community surrounding the West Pico Drill Site, NASE requests that CD5 support our appeal of the ZA Determination, specifically the following proposals:

- As discussed above, NASE's appeal details that the 2000 ZA approval and permits that rely upon it should already be deemed void under the LAMC 11.02 because the split of the drill site in that approval violates the clear prohibition on more than one drill site in Oil Drilling District U-131.

- Require revision of Condition 72 because it allows for redrilling of wells without full discretionary ZA review, in contradiction with LAMC sections 13.01.H, 13.01.I and ZA Memo 133.

- Require, per Professor Salman's April 22, 2021 letter to ZA, the immediate plugging of all idle wells and any illegally drilled, redrilled or converted wells and impose a new condition ordering that wells that go idle for two years in the future must be plugged in the third year.

Conclusion

We hope this letter helps identify NASE's concerns in the appeal process. We also look forward to your responses and finding a path to effective advocacy for a strong appeal case that can bring real changes and relief from impacts to the community. Further, NASE has received questions from the community regarding the CD5 appeal. We believe this letter and your responses will assist in addressing those questions.

Thank you for your time and consideration in this matter.

Sincerely,

Amy Minteer

Cc: Daniel Skolnick, CD5 Land Use Deputy

ATTACHMENT 2

Connect Create Collaborate

Dylan Sittig <dylan.sittig@lacity.org>

PCEC West Pico Project

Michael Finch <mfinch@energyprojectllc.com> Fri, Jun 19, 2020 at 4:34 PM
To: Edber Macedo <edber.macedo@lacity.org>
Cc: "Lisa.Webber@lacity.org" <Lisa.Webber@lacity.org>, "Estineh.Mailian@lacity.org" <Estineh.Mailian@lacity.org>, "Vanessa.Soto@lacity.org" <Vanessa.Soto@lacity.org>, "Jennifer.Tobkin@lacity.org" <Jennifer.Tobkin@lacity.org>, Dylan Sittig <dylan.sittig@lacity.org>, Philip Brown <philip.brown@pceclp.com>, "Rick Clark (rick.clark@pceclp.com)" <rick.clark@pceclp.com>

Edber, per our conversation here is our thoughts on the items we discussed.

PCEC was recently contacted by a member of the public and several issues and outstanding questions have been brought to our attention, including (1) whether the wells that have been drilled, re-drilled, and/or converted since the 2000 ZA approval required further ZA approval under LAMC 13.01H and 13.01I; (2) whether activities such as drilling, re-drilling, and/or converting wells underwent adequate CEQA review as part of the EIR process for the 2000 ZA approval; and (3) whether Condition #1 of the 1965 ZA 17683 and Condition #B-49 of the 2000 ZAD 17683 need to be modified to reflect that onsite generation of power is occurring on the production site.

With regard to the first issue, after reviewing our well files, and the 2000 ZA determination, it is clear that certain wells have been drilled, re-drilled and converted since that approval – see "Well List" below. In light of LAMC 13.01H and 13.01I, a question has surfaced regarding whether these well activities required further authorization or approval by the ZA. We have not seen any approvals by the ZA and our conclusion is that applications were likely never submitted to the City. We believe this was because of Condition 72 of the 2000 ZAD 17683 determination which states in part *"Without prior written approval from the Zoning Administrator, no more than the existing 69 wells may be drilled, operated or maintained at the site and these wells shall be located at their current surface locations."* This condition suggests that the 2000 ZA approval covered a total of 69 wells and, provided the facility did not exceed the 69 wells, no further ZA approvals for drilling and redrilling were required. However, it appears the facility may not have had 69 existing wells at the time of the determination. This may have been a misunderstanding during the determination between well "slots" vs actual wells. In any event, a question now exists regarding whether the wells that have been drilled, re-drilled, and/or converted since the 2000 ZA approval required further ZA review and approval pursuant to LAMC 13.01H and 13.01I.

A follow along question concerns the scope of environmental review done for the 2000 approval and whether the review covered specific well activities. It's been suggested that as part of the 2000 approval (drill site modernization project) the activity of drilling, redrilling, and converting wells may not have been covered as part of the EIR process. Rather, the 2000 approval covered only construction of the perimeter walls and a permanent derrick, not drilling or well conversions, because apparently these activities were not part of the project description. If this is accurate, a question now exists regarding the adequacy of the currently proposed Categorical Exemption, and whether additional environmental review should be conducted to cover not only past well activities, but also those that are likely to occur in the future.

The last item is the installation of the microturbine. PCEC identified the installation of the microturbine in its February 2020 application to the City. This installation occurred in 2018 and PCEC obtained a SCAQMD permit, LA building permit, and a LA DWP permit. The 1965 ZA 17683 case Condition #1 included a provision, among others, requiring the project to comply with LAMC 13.01F(b)43.

13.01F(b)43 provides:

That drilling, pumping and other power operations shall at all times be carried on only by electrical power and that such power shall not be generated on the controlled drilling site or in the district.

In addition, 2000 ZAD 17683*Condition B-49* provides:

All Electric Power. All drilling and reworking operations at the site shall at all times be carried on only by electric power and such power shall not be generated on the controlled drilling site or in the district.

The 2000 ZAD 17683 Condition B-49 seems to suggest that power generation cannot happen at the controlled drill site or in the district for drilling and reworking operations, therefore the implication would be that this condition would not be applicable to the production operations.

The facility has two separate power meters. One is dedicated to the drill site and the other the production site. The microturbine is dedicated to the production site only. A question now exists whether Condition #1 of the 1965 ZA 17683 and Condition #B-49 of the 2000 ZAD 17683 need to be modified to reflect that onsite generation of power is occurring on the production site.

PCEC is working with historical documents and realize the City may have more insight. We are asking if the wells drilled, re-drilled, and converted since 2000 required a permit under 13.01H and 1301I? Also, did activities such as drilling, re-drilling, and/or converting wells undergo adequate CEQA review as part of the EIR process for the 2000 ZA approval, or is further review now required? Finally, does Condition #1 of the 1965 ZA 17683 and condition #B-49 of the 2000 ZAD 17683 need to be modified to reflect that onsite generation of power is occurring on the production site. If the answers to any of these questions is yes, then we would like to meet to discuss and decide how to address and reconcile these issues as part of the current process. We look forward to any guidance you can give us.

Thank you

Well List

New Drills

WP 58 - 2005

WP 59 – 2010

Redrills

WP 10 – 2010

WP 11 – 2005

WP 18 – 2003

WP 21 – 2003

WP 34 – 2010

WP 41 – 2004

WP 45 - 2004

RW 2 – 2003

OW 8 – 2003 and 2005

PW 9 – 2004

HW 10 - 2004

Conversions

WP 11 – 2006 converted to producer

WP 22 - 2000 convert injection 2007 convert to production

WP 26 – 2006 convert to injection

WP 29 – 2016 rescinded as injector and now idle producer – not really an conversion.

WP 42 – 2000 convert to injection. 2016 plug back and now idle.

WP 44 – 2003 convert to gas injection, 2005 convert to two string water and gas, 2014 rescinded as injector.

SW 7 – 2017 convert to injection

HW10 – it looks like a request was made for emergency gas injection. We know gas injection did not happen and the request was subsequently cancelled.

Mike Finch

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STATEMENT OF REASONS FOR APPEAL;
Case No. ZA-1989-17683
ENV-2020-1328-CE

On behalf of Neighbors for A Safe Environment (NASE), a California nonprofit corporation seeking to protect neighborhoods from the impacts of oil drilling and production, we provide this summary of our reasons for appeal of the Plan Approval determination for 9101 West Pico Boulevard. Additional details regarding these legal violations and proposals to address those violations are included in the referenced attachments to this statement of reasons.

The overarching failing of the June 2, 2021 Zoning Administrator (ZA) Determination is that, while it recognizes some of the many legal violations on the site and says at one point that "the current conditions…may not be completely adequate to preserve the health, safety and general welfare of the nearby residential neighborhood," it fails to impose or revise any conditions to ensure these violations and impacts are rectified. Indeed, the headline of the ZA Determination and the effective part of the ruling is a statement that the site is and has been "substantially" in compliance – a statement that the rest of the ZA Determination undermines. The ZA Determination also fails to address many of the most serious violations at 9101 and 9151 West Pico Boulevard. The continuing lack of oversight, investigation, and any consequences for years of illegal activity allowed by the ZA Determination is a green light for all oil companies to ignore City law and CEQA at all drill sites in the City. That endangers not just the public living around the West Pico Drill Site, but also sets precedent that will endanger all communities living around oil drill sites throughout the City.

A. Violation of Conditions of Approval

The June 2, 2021 ZA Determination acknowledges that the operator is in violation of a number of conditions of approval for the site, including Conditions 36, 39, 49 and 72. In addition, there are also violations of Conditions 46, 47, 53, 57, 61 and 78 due to the odor impacts experienced by the community, documented improper waste disposal, noncompliance with fire safety requirements, and lack of timely conditions review which has led to many of the impacts identified herein. (See Attachment 1, August 24, 2020 NASE Letter to ZA.)

The ZA Determination identifies a number of these violations, but then reverses itself and makes the overarching finding that there is substantial compliance with conditions of approval. This fails to "bridge the analytic gap between the raw evidence and ultimate decision," requiring the determination to be set aside as unsupported. (*Topanga Assn. for a Scenic Community v. County of Los Angeles* (1974) 11 Cal.3d 506, 515.)

This failure to ensure compliance with conditions of approval is also a violation of the California Environmental Quality Act (CEQA). "Mitigating conditions are not mere expressions of hope." (*Lincoln Place Tenants Ass'n v. City of Los Angeles* (2005) 130 Cal.App.4th 1491, 1508.) CEQA requires mitigation measures to be concrete and enforceable. (Pub. Resources Code § 21081.6(b).)

B. Los Angeles Municipal Code Violations

In correspondence with the ZA's office, NASE identified several ways in which actions at the site violate plain requirements and prohibitions for oil drilling and production contained in the City's Municipal Code. (Attachment 1.) The ZA Determination includes factual conclusions that concur with several of the Municipal Code violations identified by NASE, but does not require any corrective actions, instead allowing them to continue without any consequences.

As identified by NASE, the Zoning Administrator and the operator have been in violation of Los Angeles Municipal Code (LAMC) § 13.01.E.2.b since the 2000 approval in ZA-1989-17683-PAD because only one Controlled Drill Site can exist in Oil Drilling District U-131. The current ZA Determination in ZA-1989-17683-PA2 continues to insist there are two sites, despite having been shown the pertinent code and the record of ZA determinations from the opening of a single Controlled Drill Site in 1965 until the error of the ZA-1989-17683-PAD in 2000 purporting to see two distinct sites.

The Controlled Drill Site was established by Case No. ZA-17683 in 1965 and defined as a single site spanning lots on both sides of Oakhurst Drive. The Controlled Drill Site was established on two City blocks from the outset, and established as a single integrated Controlled Drill Site as per LAMC 13.01. Here is the legal description and identification of the two-block Controlled Drill Site authorized by Case No. ZA-17683 in 1965:

EXHIBIT "P"

CITY OF LOS ANGELES
CALIFORNIA

NUBER M. SMUTZ
CHIEF ZONING ADMINISTRATOR

ASSOCIATE ZONING ADMINISTRATORS
CHARLES V. CADWALLADER
ARTHUR DVORIN
E. A. RUDGER

SAMUEL WM. YORTY
MAYOR

DEPARTMENT OF
CITY PLANNING

OFFICE OF
ZONING ADMINISTRATION

400 CITY HALL
LOS ANGELES, CALIF. 90012
MADISON 4-5211

August 17, 1965

Occidental Petroleum Corporation
ATTENTION: E. F. Reid,
Vice President
5000 Stockdale Highway
Bakersfield, California

Fire Prevention Bureau

Department of Building & Safety

Re: Z. A. CASE NO. 17683
N'ly of Pico Blvd.
E'ly & W'ly of Oakhurst Drive
Oil Drilling District
No. U-131
D. M. No. 5484

Greetings:

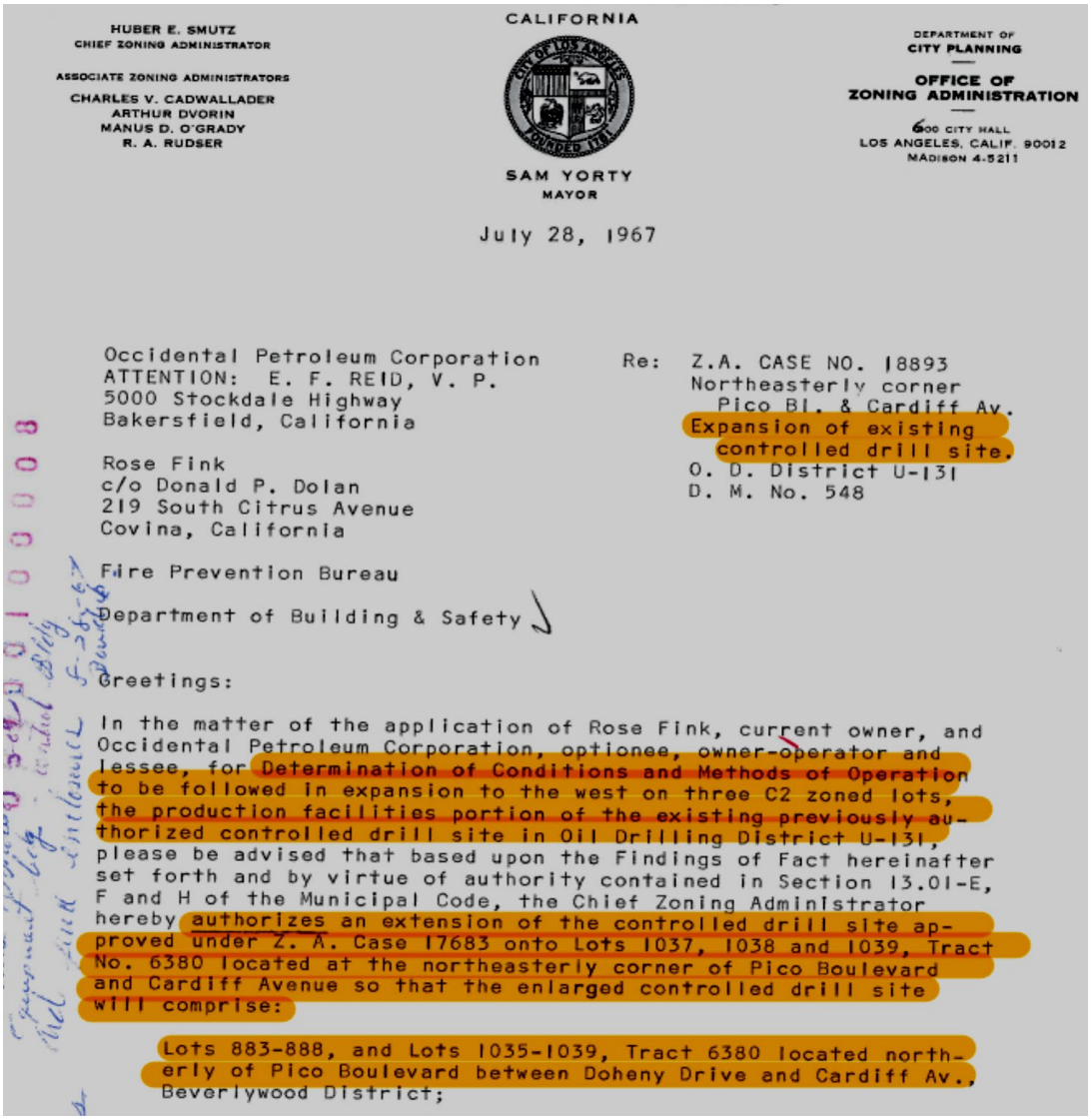
In the matter of the application of Occidental Petroleum Corporation, owners and lessees, for approval of a controlled drill site and for determination of conditions and methods of operation to be followed in drilling for and production of oil and gas on a site consisting of two sections classified in the C2, R3 and R4-1 Zone in Oil Drilling District No. U-131, please be advised that based upon the Findings of Facts hereinafter set forth and by virtue of authority contained in Section 13.01-E, F and H of the Municipal Code, the Chief Zoning Administrator hereby authorizes the use of a site comprising:

Lots 883-888, inc., and Lots 1035 and 1036, Tract 6380, located northerly of Pico Boulevard and extending from Doheny Drive to include the northwesterly corner of Oakhurst Drive, Beverlywood District,

as a controlled drill site on which to drill wells and conduct surface operations in connection with the development and bottoming of wells under Oil Drilling District U-131, consisting of that 70-acre drilling district depicted and described on the map which is a part of Ordinance No. 130340, as well as for surface operations in connection with wells which by subsequent action may be authorized to be bottomed under adjoining and adjacent districts, and also

That drill site was then extended to include the street front on Pico Boulevard from Oakhurst to Cardiff in 1967 pursuant to Case No. ZA-18893 to form one larger site.

The 2000 ZA approval in ZA-1989-17683-PA2 incorrectly asserts that Case No. ZA-18893 created two separate sites. Not only is the existence of two sites in District U-131 forbidden by LAMC 13.01.E.2.b, but the header and opening paragraph of Case No. ZA-18893 from 1967 also make it clear that there was only one drill site:



HUBER E. SMUTZ
CHIEF ZONING ADMINISTRATOR

ASSOCIATE ZONING ADMINISTRATORS
CHARLES V. CADWALLADER
ARTHUR DVORIN
MANUS D. O'GRADY
R. A. RUDSER

CALIFORNIA

SAM YORTY
MAYOR

DEPARTMENT OF
CITY PLANNING

OFFICE OF
ZONING ADMINISTRATION

600 CITY HALL
LOS ANGELES, CALIF. 90012
MADISON 4-5211

July 28, 1967

Occidental Petroleum Corporation
ATTENTION: E. F. REID, V. P.
5000 Stockdale Highway
Bakersfield, California

Rose Fink
c/o Donald P. Dolan
219 South Citrus Avenue
Covina, California

Fire Prevention Bureau

Department of Building & Safety

Re: Z.A. CASE NO. 18893
Northeasterly corner
Pico Bl. & Cardiff Av.
Expansion of existing
controlled drill site.
O. D. District U-131
D. M. No. 548

Greetings:

In the matter of the application of Rose Fink, current owner, and Occidental Petroleum Corporation, optionee, owner-operator and lessee, for Determination of Conditions and Methods of Operation to be followed in expansion to the west on three C2 zoned lots, the production facilities portion of the existing previously authorized controlled drill site in Oil Drilling District U-131, please be advised that based upon the Findings of Fact hereinafter set forth and by virtue of authority contained in Section 13.01-E, F and H of the Municipal Code, the Chief Zoning Administrator hereby authorizes an extension of the controlled drill site approved under Z. A. Case 17683 onto Lots 1037, 1038 and 1039, Tract No. 6380 located at the northeasterly corner of Pico Boulevard and Cardiff Avenue so that the enlarged controlled drill site will comprise:

Lots 883-888, and Lots 1035-1039, Tract 6380 located northerly of Pico Boulevard between Doheny Drive and Cardiff Av., Beverlywood District;

Thus, the drill site was not split until the 2000 ZA approval. The terms of LAMC § 13.01.E.2.b have been in effect continuously since February 1945. An approved Controlled Drill Site is the only kind of land use entitlement that allows for oil production activity in areas Zoned "O." Only one Controlled Drill Site is allowed per 40 acres of Oil Drilling District and the subject district, U-131, has only 70 acres. Two sites are not allowed by code and ZA-1989-17683-PAD created two sites in violation of the LAMC. Approvals, such as ZA-1989-17683-PAD, that are issued in violation of the LAMC "shall be void" as per LAMC § 11.02. Thus, the

split was illegal when it occurred, remains illegal, and the ZA Determination in ZA-1989-17683-PA2 is fatally flawed by this and other errors. (See Attachment 1.)

The operator is also in violation of LAMC § 13.01.F.26 due to the installation of micro-turbines at 9151 West Pico Boulevard. The ZA Determination acknowledges this violation, but does not impose any remedial conditions or required environmental review. Instead, the "Staff Review" section of the determination suggests an application for the micro-turbines is required to be submitted, proposing segmented or piecemealed cases to possibly take the place of a single larger review that could view the entirety of violations, deficient conditions, and at least 25 projects executed illegally. Splitting this up into smaller bites obscures the totality of environmental impacts and violates CEQA's requirement that the whole of a project—"all phases of project planning, implementation, and operation"—are to be considered when assessing environmental review for a project. (CEQA Guidelines §15063, subd. (a)(1).)

Further, Condition 72 is in direct contradiction with LAMC §§ 13.01.H and 13.01.I because it allows redrilling of wells without a full discretionary review by the ZA, which has been expressly required by Code since at least 1955. The ZA Determination acknowledges this contradiction but fails to require any revision to the condition and compounds the error further in its unsupported interpretation of this condition. Condition 72 speaks only of "redrilling"; it does not mention drilling of new wells or conversion of wells between Class A and Class B (i.e., production and injection). The ZA Determination nevertheless stretches the already illegal Condition 72 to cover new wells and converted wells. Since 2000, the site operator has drilled 2 new wells, redrilled 12 existing wells, and converted 10 wells between Classes A and B, all without application to the ZA. The site operator admitted this to the ZA in writing on June 19, 2020. LAMC 13.01.H and 13.01.I plainly require full application to the ZA for review and approval of all of these activities. Since at least 2000, it has been standard practice for ZA's to hold public hearings on all such applications. Since 2016, ZA Memo 133 has explicitly required that public hearings be held, and has forbidden projects to drill, redrill, or convert wells from receiving a categorical exemption from environmental review.

Despite these clear requirements, the ZA Determination claims that all illegal well projects, including even new wells and well conversions, should be handled by the inadequate and illegal procedure set out in Condition 72. No corrective conditions, review of oil well projects, or any type of enforcement is proposed. Instead, the ZA Determination requires only that all filings to the California Department of Oil, Gas and Geothermal Resources be submitted to the ZA Office. This not only fails to address the 24 unapproved oil well projects on the West Pico Drill Site executed since 2000, it compounds and expands the illegality of the 2000 approval. It endangers all communities living near all oil drill sites in City by setting a precedent to ignore the scant legal protections that they have had.

Additionally, because the 2000 ZA approval for the site was issued in violation of these Municipal Code provisions, the 2000 approval, and all subsequent approvals and City permits that rely upon it, should be deemed void pursuant to LAMC § 11.02. (See Attachment 2, March 23, 2021 NASE Letter.)

C. Violation of 2001 Settlement Agreement

The ZA Determination acknowledges the City's and operator's violation of the 2001 settlement agreement with NASE due to the failure to conduct the required five-year reviews for the site. The only reason the current review was commenced was based on a demand from NASE for the City to do so. While the ZA Determination states that the City will continue with the required reviews going forward, this fails to address the impacts to NASE and others in the surrounding community that resulted from the many years the reviews were not conducted and there were numerous violations as the site. Moreover, the current Plan Approval review fails to meet the requirements of the 2001 settlement agreement because there are no corrective conditions imposed or modification of existing conditions to address the ongoing issues at the site. The Zoning Administrator stated at public hearings for this Plan Approval review that the adequacy of conditions would not be evaluated, which violates the Settlement Agreement use of Condition 78 to set the scope and process for 5 Year "Reviews of Conditions" that "evaluate the efficacy of mitigation measures" and change them if warranted. This Plan Approval review did not even consider writing the Settlement Agreement's requirement of cyclical 5 Year Reviews of Conditions into a new a condition, despite an acknowledgment by the ZA Determination and in statements at public hearings that the ZA office had failed to hold these required reviews.

D. California Environmental Quality Act Violations

The ZA Determination improperly relies on Class 1 and Class 21 categorical exemptions to avoid environmental review under CEQA. The interpretation of the language of the guidelines implementing CEQA or the scope of a particular CEQA exemption presents "a question of law, subject to de novo review" by a court. (*Fairbank v. City of Mill Valley* (1999) 75 Cal.App.4th 1243, 1252; *Azusa Land Reclamation Co. v. Main San Gabriel Basin Watermaster* (1997) 52 Cal.App.4th 1165, 1192.) "[A categorical] exemption can be relied on only if a factual evaluation of the agency's proposed activity reveals that it applies." (*Muzzy Ranch Co. v. Solano County Airport Land Use Com*. (2007) 41 Cal.4th 372, 386.) "[T]he agency invoking the [categorical] exemption has the burden of demonstrating" that substantial evidence supports its factual finding that the project fell within the exemption. (*Ibid*.) The City has not met this burden.

First, the ZA Determination is essentially using a Class 1 exemption to legitimize years of illegal actions, which this exemption is not intended to do. Reliance on this categorical exemption and the ZA's willful blindness to noncompliance with requirements to apply to the ZA for discretionary approval of oil well projects incentivizes all oil companies operating in the City to evade application and review for projects in the future. Exempting these unapproved oil well projects from environmental review based on ongoing illegal activities piles illegality on top of illegality. Moreover, it deprives the public and decision makers of information necessary to assess the Project's impacts.

A Class 21 exemption exempts enforcement actions from environmental review. The ZA Determination fails to acknowledge the significant irony in relying on this exemption after identifying noncompliance but imposing no corrective enforcement actions.

Moreover, to the extent this Plan Approval reviewed any of the illegal drilling, redrilling, and converting of wells that has been conducted at the site since 2000, the City is prohibited from relying on a categorical exemption by its own CEQA guidelines in ZA Memo 133. (Attachment 3, ZA Memo 133.)

Exceptions to reliance on a categorical exemption also apply. CEQA prohibits use of a categorical exemption when there is a reasonable possibility that the activity will have a significant effect on the environment due to unusual circumstances." (CEQA Guidelines § 15300.2, subd. (c).) The ongoing legal violations on the site are unusual circumstances and those unusual circumstances have led to and will continue to lead to adverse air quality, odor, noise and other impacts on the surrounding community.

For all of these reasons, and those to be presented in more detail before the West Los Angeles Area Planning Commission, this appeal seeks to overturn this Plan Approval until: all illegal projects executed at the site are reviewed in accordance with City and State law; the efficacy of mitigation measures and all conditions are properly reviewed in accordance with the Settlement Agreement, Condition 72, and CEQA; and mitigation measures have been imposed to address ongoing impacts and the site is in legal compliance. NASE also reserves the right to provide supplemental evidence and analysis regarding the basis of this appeal.

Attachments:
Attachment 1, August 24, 2020 NASE Letter to ZA
Attachment 2, March 23, 2021 NASE Letter
Attachment 3, ZA Memo 133

ATTACHMENT 1

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August 24, 2020

Via U.S. Mail and Email (dylan.sittig@lacity.org, theodore.irving@lacity.org)

Associate Zoning Administrator
Theodore Irving
c/o Dylan Sittig, City Planning Associate
200 N. Spring St, Room 720
Los Angeles, CA 90012

Re: ZA-1989-17683-PA2; Need for Comprehensive Review of Conditions at the West Pico Drill Site (9101 & 9151 W Pico Blvd, Los Angeles, CA 90035) to Address Numerous Legal Violations and Community Impacts

Dear Mr. Irving,

On behalf of Neighbors for A Safe Environment (NASE), a California nonprofit corporation, we seek to address ongoing and emerging legal violations at the West Pico Drill Site (9101 & 9151 West Pico Blvd, Council District 5) that have led to a failure to provide necessary protections to the community surrounding this drill site. NASE has extensively communicated with the Zoning Administrator (ZA) and documented the bases of its concerns. NASE has also cooperated with the operator of the West Pico Drill Site, the Pacific Coast Energy Company (PCEC), and together with PCEC presented a set of practical solutions to the ZA. We urge the City to implement the reasonable and viable remedies we have previously presented and which are outlined below.

Unfortunately, thus far, the City has failed to act on the remedies NASE has proposed, including NASE's request for a Review of Conditions as per the procedures required by the 2001 Settlement Agreement between NASE, the City and the West Pico Drill Site operator and Condition 78 of the 2000 approval in ZA-1989-17683-PAD. Additionally, despite clear requirements in the City's Municipal Code and ZA Memo 133 for discretionary approval supported by environmental review for any oil well drilling, redrilling or conversion project, the City persists in relying on inapplicable categorical exemptions from the California Environmental Quality Act (CEQA) for approvals. Thus far, the City has also refused to impose

necessary modification of conditions to correct a great many ongoing violations of CEQA and City law by the City, as well as by the current and prior site operators.

NASE has retained our firm to make another effort to convince the City to bring its own practices of land use regulation and petroleum administration into compliance with the 2001 Settlement Agreement, CEQA, and City law. This letter outlines the remedies that would achieve those simple goals and provide necessary protection for the surrounding community. It also gives the City notice that if persistent violations are not rectified, NASE is prepared to seek legal remedies to require compliance with the Settlement Agreement and enforce CEQA and City law. We hope that the City will prefer to open discussion about a reasonable set of remedies.

A. NASE Urges the City to Adopt Remedies to Address Legal Violations and Impacts to the Community.

From its initial communication with the Chief ZA in November 2019 up until now, NASE has asked for only modest and eminently viable remedies to alleviate impacts to the community and ensure compliance with the law. NASE has requested that ZA-1989-17683-PA2 be a Review of Conditions, as mandated by the 2001 Settlement Agreement and Condition 78 of the 2000 approval in ZA-1989-17683-PAD. Pursuant to the 2001 Settlement Agreement and Condition 78, the review must:

- examine the West Pico Drill Site's compliance with conditions of approval;
- assess "neighborhood impacts;" and
- evaluate the "efficacy of mitigation measures," with modification of the mitigation measures and/or corrective measures "if warranted."

As set forth herein, this Review of Conditions must be comprehensive, legally compliant and must impose new conditions to address ongoing violations and impacts and correct significant errors in the 2000 approval for the West Pico Drill Site.

1. The Review of Conditions Must Include a Comprehensive Compliance Inspection.

The Review of Conditions for the West Pico Drill Site needs to be prefaced by a Comprehensive Compliance Inspection led by the Office of the Petroleum Administrator. This Review of Conditions should follow the example of the one and only Comprehensive Compliance Inspection of an oil drill site ever conducted by the City—the Rancho Park Drill Site inspection conducted in March/April 2017. Only a full inspection by a qualified professional can fully define the scope of the project in the current review. Thus, the inspection is necessary to

inform compliance with conditions of approval, CEQA clearance and, by the same measure, inform the ZA and the public regarding corrective measures that should be required.

2. The City Must Comply with ZA Memo 133 in its Review of Conditions By Requiring CEQA Review for the Projects on the Drill Site.

The Review of Conditions for the West Pico Drill Site must be compliant with CEQA and with the City's own guidelines in ZA Memo 133. It has been established beyond the shadow of a doubt that mitigation measures from the 2000 approval and its associated EIR have failed to protect the community. Odor complaints from the community are well document and are matched by testimony from Council Member Paul Koretz. The Los Angeles Fire Department also imposed citations on the operators of the West Pico Drill Site for leaving petroleum exposed on surfaces in 2017 and 2018.

Multiple conditions from the 2000 approval have been violated, and the City has failed to enforce mitigation measures established through the associated EIR. Conditions 46, 47, 53, 57, 61, 72, and 78 (concerning odors, nuisance, good oil field practices, redrilling, and reviews of conditions) have all been violated. "Mitigating conditions are not mere expressions of hope." (*Lincoln Place Tenants Ass'n v. City of Los Angeles* (2005) 130 Cal.App.4th 1491, 1508.) CEQA requires mitigation measures to be concrete and enforceable. (Pub. Resources Code § 21081.6(b).) From at least 2006 to the present the ZA and the City have failed to monitor or enforce these conditions in violation of CEQA.

In addition to those ongoing CEQA violations by the City, PCEC has stepped forward to do honest research on projects executed at the site since 2000. PCEC agrees with NASE that there have been 25 unapproved projects, including 24 projects on oil wells that require discretionary review by the ZA according to City code, and thus CEQA clearance by State law. ZA Memo 133 directly states that proposals to drill, redrill, or convert wells are ineligible for categorical exemptions under CEQA. The 25 unapproved projects and the obvious need to revise mitigation measures makes reliance on categorical exemptions utterly improper. An Initial Study and an MND are required, at minimum, and that is what NASE requests.

3. The Continuing Impacts to the Community Demonstrate a Need to Impose New Conditions Through the Review of Conditions.

The ongoing impacts to the community surrounding the West Pico Drill Site, and the numerous violations of existing conditions of approval, demonstrate a clear need to impose new conditions through the Review of Conditions process to prevent these problems from continuing.

Based on NASE's familiarity with the impacts to the community and the existing conditions, it is our position (supported by PCEC) that the following new conditions must be adopted:

- Annual Compliance Inspections led or overseen by qualified professional staff in the Office of the Petroleum Administrator.

- Permanent 24/7 Emissions Monitoring, with recorded data that is reported to the Petroleum Administrator, the ZA, and the public on a quarterly basis.

- Incorporation of the requirement of cyclical Five Year Reviews of Conditions from the 2001 Settlement Agreement into the ZA conditions for the site, using the full procedures delineated in Condition 78 of the 2000 approval as per the Settlement Agreement.

- Immediate Emergency and Accident Reporting to the City (to LAFD, the Petroleum Administrator, and the local Council office) for any emergency or accident that must be reported to any Federal, State, or regional agency.

The need for additional conditions may be identified through the comprehensive compliance inspection as well.

4. The Review of Conditions Must Correct Several Errors from the 2000 Approval.

The Review of Conditions for the West Pico Drill Site must also correct significant errors from the 2000 approval that are inconsistent with City law, the actual record of approvals for the site, and the facts of what actually exists at the site. Those errors include:

- **Delete Condition 72 to Eliminate its Contradiction with LAMC 13.01.H and 13.01I.** This condition addressing "redrilling" directly contradicts the provisions of Los Angeles Municipal Code sections 13.01.H and 13.01.I. Both of these sections require discretionary approval by the ZA before any oil well is drilled, redrilled, or converted between producer and injection well. The contradiction may have contributed to the rash of unapproved projects at the site since 2000, including the redrilling of 12 wells since 2000 without ZA review, approval, or CEQA clearance. Condition 72's undermining of LAMC 13.01.H and 13.01.I on drilling and redrilling wells may have also contributed to the conversion of 10 wells since 2000 without ZA review, approval, or CEQA clearance per the requirements of ZA Memo 133.

- **Correct the Number of Existing Wells.** The 2000 ZA approval for the West Pico Drill Site incorrectly asserts that 69 wells existed at the site in 2000 and that 69 wells had been approved. Only 59 wells currently exist at the site, and only 57 existed in 2000. Only 57 wells have been approved for the site by the ZA. The ZA's error in 2000 reflected a lack of knowledge about the drill site, a lack of knowledge about the difference between a well cellar and a well, and a failure to cross-check with State records from DOGGR (now CalGEM) even as the ZA wrote conditions requiring that all monitoring agencies need to be consulted. This error may have contributed to the drilling of unapproved wells without CEQA clearance in 2005 and 2010.

- **West Pico Drill Site Includes Both 9101 and 9151 West Pico Blvd as a Single Controlled Drill Site.** The 2000 approval improperly split the single integrated "Controlled Drill Site" into two sites because the operator in 2000 proposed a construction project that would occur on only one half of the site. This error runs afoul of LAMC 13.01, especially 13.01.E.2.b. A Controlled Drill Site is the only kind of conditionally approved land use on which oil can be produced from wells and processed for sale. Only one Controlled Drill Site can exist in Oil Drilling District U-131, and only one has ever been approved: namely the West Pico Drill Site, approved in ZA-1965-17683. The ZA severed the unified Controlled Drill Site into two in 2000, leaving both without a legally sustainable basis for operation. This error also may have contributed to the improper installation of microturbines by obscuring the prohibition against electric generation on the Controlled Drill Site or anywhere in the Oil Drilling District that was written into the 1965 approval to establish the Controlled Drill Site. The 2000 approval, which completely rewrote and supplanted the 1965 approval, also prohibits electric generation at the West Pico Drill Site. By improperly splitting the Controlled Drill Site in two, the 2000 approval left the other half of the Controlled Drill Site without any approval or conditions in place.

B. These Remedies Are Necessitated by the Ongoing and Potential Legal Violations.

NASE has chosen to focus on remedies in this communication in a continuing effort to achieve relief for the community and legal compliance by the City. However, the description of the remedies, above, should provide you with an indication of some of the legal violations we may seek to challenge in court, if necessary. These include:

- Ongoing violations of CEQA for the City's failure to enforce mitigation measures from the EIR associated with the 2000 approval for the West Pico Drill Site.

- Failure to require CEQA review for discretionary, and recently discovered, well drilling, redrilling and conversion projects at the West Pico Drill Site.

- The proposed improper reliance on categorical exemptions for the current review of the West Pico Drill Site.

- Failure to enforce LAMC 13.01.H and 13.01.I by allowing operation of 25 unapproved oil well projects on the West Pico Drill Site.

- Violated LAMC 13.01.E.2.b by dividing the Controlled Drill Site into two sites in 2000.

- Breach of the 2000 Settlement Agreement due to the City's failure to conduct the required five-year reviews for the West Pico Drill Site for at least the last 10 years. No legally required reviews have been held during Councilmember Koretz's term in the City Council until NASE demanded this review in November 2019.

- The current ZA review process also appears to be running afoul of the requirements of the 2000 Settlement Agreement, CEQA and City regulations due to its improperly narrow focus and the ZA's stated position that the process would not result in the modification of any conditions.

Conclusion

The problems at the West Pico Drill Site are not isolated incidents and they are not unknown to City officials. The City has been negligent in its land use-based regulation of oil drill sites, failing to protect the communities impacted by these drill sites. It has never performed regular inspections to monitor for compliance with ZA-assigned conditions, and so mitigation measures routinely are not followed and not enforced. Similarly, the City continues to engage in a pattern and practice of handing out categorical exemptions from CEQA review for oil projects, contrary to the requirements of CEQA, ZA Memo 133 and LAMC 13.01.H and 13.01.I. Taken together, this pattern of negligence gives a green light to unapproved projects and turns a blind eye to poor work practices, all at the expense of communities the City is supposed to protect.

Most confounding here is the City's refusal to address environmental, health, and safety protections when an operating oil company comes forward to join with the community in asking the City to implement CEQA properly and to do inspections, require emissions monitoring, and perform serious reviews. This situation must be remedied. It is NASE's hope that the current ZA process can be revised to begin to address these ongoing issues, but if not, we are prepared to pursue available legal options.

Thank you for your time and consideration in this matter.

Sincerely,

Amy Minteer

cc:
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March 23, 2021

Via U.S. Mail and Email
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Kristin Crowley
Los Angeles Fire Marshal
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Re: PRA Request R006330-120320 for West Pico Drill Site; Retention of Oil Permitting Records; and Permit Inspection Fees

Dear Mr. Uyemura, Mr. Terrazas and Ms. Crowley,

On behalf of Neighbors for A Safe Environment (NASE), a California nonprofit corporation seeking to protect neighborhoods from the impacts of oil drilling, we seek to address a partially outstanding Public Records Act (PRA) request from Professor Michael Salman regarding documents relating to permits for oil wells within the City of Los Angeles. We also seek to address the City's record retention policies for these and other related documents, as well as a lack of monitoring of oil drilling activities demonstrated by documents and other information that Professor Salman has received.

Outstanding Public Records Act Request

Professor Salman submitted PRA Request R006330 on December 3, 2020, requesting records pertaining to Los Angeles Fire Departments (LAFD) oil well operating permits for the wells at the West Pico Drill Site that are processed by the Office of Finance for the years spanning 2000 to 2020. This request was submitted to the Office of Finance after Professor Salman spent approximately two months trying to obtain these records from the LAFD. After several requests to LAFD, each supported by additional identifying information to help staff locate the records, LAFD personnel told Professor Salman that the Office of Finance was "the custodian for operational permits" and "the Custodian of Records" for those permits.

The Office of Finance has provided Professor Salman with pdf copies of operating permits for the years 2005-2020. We understand that the Office of Finance digitized records from the start date of 2005, and that paper records for earlier permits may not exist in the Office of Finance. We do not know whether copies of these earlier permits exist in the files of the LAFD, but to the extent they do, we request that any such records held by the LAFD please be produced in response to the several PRA requests that have been filed by Professor Salman.

While the Office of Finance has provided copies of operating permits identified above, it has not yet provided Professor Salman with copies of any communications with LAFD or LADBS or City Planning. It is our understanding that Finance is working with other City information technology agencies to determine if there are electronic records it can recover. If the Office of Finance cannot provide copies of these requested documents from its own files, then we request that the Office of Finance, as the Custodian of Records, please obtain copies from the LAFD Harbor Industrial Unit and from the LADBS and/or City Planning, where these communications originated.

Record Retention for Oil Well Permitting Documents

Professor Salman has received conflicting information from the Office of Finance and LAFD regarding the record retention policies of these departments for documents relating to oil well permits. PRA Request R006330 included a request for all applications, authorizations/rejections communicated by the LAFD and/or LADBS and/or Department of City Planning, communications with the LAFD and/or LADBS and/or City Planning,

communications with the operating oil company, and the permits themselves. There have been inconsistencies in responses to Professor Salman regarding how long the Office of Finance and LAFD retain these documents.

Given that it is unclear how long these documents will be retained under existing department procedures, this letter serves to put the Office of Finance on notice that these records must be retained due to the potential for litigation by NASE addressing oil well operating permits at the West Pico Drill Site. All records (paper, electronic, and on other media) pertaining to LAFD oil well operating permits for the wells at the West Pico Drill Site that are processed by the Office of Finance – including applications, authorizations/rejections communicated by the LAFD and/or LADBS and/or Department of City Planning, communications with the LAFD and/or LADBS and/or City Planning, communications with the operating oil company, and the permits themselves should be retained.

The Zoning Administrator, City Attorney, Petroleum Administrator and other City officials and staff have been advised of the potential for litigation concerning the City's actions and negligence at the West Pico Drill Site (9101 & 9151 W Pico Blvd, Los Angeles, CA 90035) and other similar sites where there has been a pattern and practice of violating City law and CEQA. Please see the attached letter to those City officials and staff, sent on August 24, 2020, in connection with a still open Planning Department case, number ZA-1989-17683-PA2. (Attachment 1.)

Below we set forth additional issues of concern by NASE regarding the City of Los Angeles's failure to monitor, implement, and enforce its own laws governing the operation of oil wells and oil drill sites, as well as the City's violation of the California Environmental Quality Act (CEQA), that are the subjects of potential litigation concerning the West Pico Drill Site and other drill sites within the City.

Renewal of Annual Operating Permits Despite Legal Violations.

LAFD Annual Operating Permits are required for oil wells. (Los Angeles Municipal Code (LAMC) 57.106.6.1, LAMC 57.106.6.3.2.) These Annual Operating Permits are conditioned upon an agreement "to comply with all regulations, laws, or ordinances pertaining thereto." (LAMC 57.105.3.9.1.2.) One such regulation is that: "No person shall drill, deepen or maintain an oil well or convert an oil well from one class to

the other and no permits shall be issued for that use, *until a determination has been made by the Zoning Administrator or Area Planning Commission* pursuant to the procedure prescribed in Subsection H of this section." (LAMC 13.01.I, emphasis added.)

There are currently 57 oil wells at the West Pico Drill Site. As the attached letter to the Zoning Administrator explains, since 2000 there have been 2 new wells drilled, 12 existing wells re-drilled, and 10 wells converted at the West Pico Drill Site, all without application to the Zoning Administrator and therefore without Zoning Administrator approval required by the LAMC and without environmental clearance required by CEQA. All of these wells have been granted LAFD operating permits and annual renewals, despite this failure to comply with City regulations and State law.

Non-compliance with City regulations at oil drill sites is a Citywide problem. For example, the Banning Semi-Controlled Drill Site in Wilmington, established in 2006, has approximately 220 wells and is one of the most troubled sites in the City. There are lengthy records of violations logged by DOGGR/CalGEM and SCAQMD, many of which also violate City law and Zoning Administrator assigned conditions restricting odors, fumes, noise and other nuisances. There have been projects executed without required Zoning Administrator approval, in violation of City regulations. The operator of this site applied for a slew of DOGGR permits to drill new wells in 2019, telling DOGGR that its 2006 Zoning Administrator approval and MND provided local approval and CEQA clearance, failing to disclose that the 2006 approval for drilling new wells was limited to a term of 12 years and expired in August 2018. Despite this, we believe that LAFD Annual Operating Permits for the Banning site in Wilmington are renewed year after year, in violation of the requirement for operator compliance "with all regulations, laws, or ordinances."

In addition to requiring operator compliance "with all regulations, laws, or ordinances," the LAMC also declares that: "Notwithstanding any other provisions of this Code or any other ordinance of the City of Los Angeles, no permit or license shall be issued in violation of any provisions of this Code or any other ordinance of the City of Los Angeles; if any permit or license is issued in violation of any provision of this Code or any other ordinance of the City of Los Angeles the same shall be void. Any permit or license issued, which purports to authorize the doing of any act prohibited by any other provision of this Code or any other ordinance of the City of Los Angeles, *shall be void*." (LAMC 11.02, emphasis added; LAMC 11.01 ["'Shall' is mandatory"].) To the extent

Annual Operating Permits were issued for unapproved or unlawfully approved projects or were issued or renewed despite violations of City regulations, they must be considered void.

Failure to Expend Permitting Renewal Fees for Intended Purpose

The violations of City and State law referenced above and the long history of non-compliance by the operators of the West Pico Drill Site and Banning Semi-Controlled Drill Site in Wilmington is traceable to the City's failure and refusal to do general compliance inspections and enforce its own laws.

The LAFD Annual Operating Permits are issued after a fee is paid, and a fee is required each year for the renewal of the LAFD Annual Operating Permits. These fees were established and are imposed by the City to cover the cost of annual compliance inspections for each drill site in the City. In fiscal year 2020-21, the permit fee was $1,290. For next year, the LAFD has requested and the City Council has agreed to increase the fee to $1,670. This is a cost per permit, and each oil well requires its own permit. The permit cost is calculated to pay for five "inspector hours" per oil well. (See Report from Board of Fire Commissioners," November 18, 2020 https://clkrep.lacity.org/onlinedocs/2020/20-1501_rpt_FC_11-18-2020.pdf, incorporated by reference.) The permit fee is expressly earmarked to pay for oil well inspections, and the permit is conditioned on compliance "with all regulations, laws, or ordinances."

These permitting fees result in significant revenue for the LAFD. There are approximately 1,100 oil wells in the City, so in 2020-21 more than $1.4 million was collected in operating permit fees. With the recently approved fee increase, next year the City will collect $1.8 million to pay for inspections. The West Pico Drill Site has 57 oil wells. In fiscal year 2020-21, $73,530 was collected in permit fees at this one drill site to cover the cost of compliance inspections. The Banning Semi-Controlled Drill Site in Wilmington has approximately 220 wells. In 2020-21, $283,000 of fees earmarked for LAFD compliance inspections of the wells was collected for the operating permits at this site.

Despite collecting significant annual renewal fees to cover the cost of compliance inspections for each oil well in the City, Professor Salman has been informed by LAFD that compliance inspections of each site have no connection to permit renewal. These renewals are approved automatically upon payment of the fee without any reference to

what might be found during inspections, as a matter of standard operating procedure. Indeed, LAFD operating permits have been renewed when there were open and unresolved Notices of Violation from the LAFD itself. Additionally, it is our understanding that the LAFD inspections that are performed look only for Fire Code violations and do not crosscheck approvals from the Zoning Administrator nor permitting and Notices of Violation from any other agency. Thus, when renewing the permits, LAFD has not verified operator compliance "with all regulations, laws, or ordinances."

Failing to expend permitting fees in the manner they were intended, to fund annual compliance inspections, appears to be a major contributing factor to the numerous drill site violations noted above and in the attached letter. Allowing non-compliance with City law by failing to inspect for non-compliance appears to be a continuing pattern and practice. This failure to perform fully-funded annual compliance inspections is particularly alarming given the potential dangers presented by poorly run and poorly regulated oil well operations that have been a subject of major concern in the City for years.

Conclusion

We look forward to your prompt response regarding the outstanding Public Records Act request by Professor Salman. NASE also urges you to carefully consider the legal issues and community concerns we have outlined above. Thank you for your time and consideration in this matter.

Sincerely,

Amy Minteer

Enclosure

cc:

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ATTACHMENT 1

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August 24, 2020

Via U.S. Mail and Email (dylan.sittig@lacity.org, theodore.irving@lacity.org)

Associate Zoning Administrator
Theodore Irving
c/o Dylan Sittig, City Planning Associate
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Los Angeles, CA 90012

Re: ZA-1989-17683-PA2; Need for Comprehensive Review of Conditions at the West Pico Drill Site (9101 & 9151 W Pico Blvd, Los Angeles, CA 90035) to Address Numerous Legal Violations and Community Impacts

Dear Mr. Irving,

On behalf of Neighbors for A Safe Environment (NASE), a California nonprofit corporation, we seek to address ongoing and emerging legal violations at the West Pico Drill Site (9101 & 9151 West Pico Blvd, Council District 5) that have led to a failure to provide necessary protections to the community surrounding this drill site. NASE has extensively communicated with the Zoning Administrator (ZA) and documented the bases of its concerns. NASE has also cooperated with the operator of the West Pico Drill Site, the Pacific Coast Energy Company (PCEC), and together with PCEC presented a set of practical solutions to the ZA. We urge the City to implement the reasonable and viable remedies we have previously presented and which are outlined below.

Unfortunately, thus far, the City has failed to act on the remedies NASE has proposed, including NASE's request for a Review of Conditions as per the procedures required by the 2001 Settlement Agreement between NASE, the City and the West Pico Drill Site operator and Condition 78 of the 2000 approval in ZA-1989-17683-PAD. Additionally, despite clear requirements in the City's Municipal Code and ZA Memo 133 for discretionary approval supported by environmental review for any oil well drilling, redrilling or conversion project, the City persists in relying on inapplicable categorical exemptions from the California Environmental Quality Act (CEQA) for approvals. Thus far, the City has also refused to impose

necessary modification of conditions to correct a great many ongoing violations of CEQA and City law by the City, as well as by the current and prior site operators.

NASE has retained our firm to make another effort to convince the City to bring its own practices of land use regulation and petroleum administration into compliance with the 2001 Settlement Agreement, CEQA, and City law. This letter outlines the remedies that would achieve those simple goals and provide necessary protection for the surrounding community. It also gives the City notice that if persistent violations are not rectified, NASE is prepared to seek legal remedies to require compliance with the Settlement Agreement and enforce CEQA and City law. We hope that the City will prefer to open discussion about a reasonable set of remedies.

A. NASE Urges the City to Adopt Remedies to Address Legal Violations and Impacts to the Community.

From its initial communication with the Chief ZA in November 2019 up until now, NASE has asked for only modest and eminently viable remedies to alleviate impacts to the community and ensure compliance with the law. NASE has requested that ZA-1989-17683-PA2 be a Review of Conditions, as mandated by the 2001 Settlement Agreement and Condition 78 of the 2000 approval in ZA-1989-17683-PAD. Pursuant to the 2001 Settlement Agreement and Condition 78, the review must:

- examine the West Pico Drill Site's compliance with conditions of approval;
- assess "neighborhood impacts;" and
- evaluate the "efficacy of mitigation measures," with modification of the mitigation measures and/or corrective measures "if warranted."

As set forth herein, this Review of Conditions must be comprehensive, legally compliant and must impose new conditions to address ongoing violations and impacts and correct significant errors in the 2000 approval for the West Pico Drill Site.

1. The Review of Conditions Must Include a Comprehensive Compliance Inspection.

The Review of Conditions for the West Pico Drill Site needs to be prefaced by a Comprehensive Compliance Inspection led by the Office of the Petroleum Administrator. This Review of Conditions should follow the example of the one and only Comprehensive Compliance Inspection of an oil drill site ever conducted by the City—the Rancho Park Drill Site inspection conducted in March/April 2017. Only a full inspection by a qualified professional can fully define the scope of the project in the current review. Thus, the inspection is necessary to

inform compliance with conditions of approval, CEQA clearance and, by the same measure, inform the ZA and the public regarding corrective measures that should be required.

2. The City Must Comply with ZA Memo 133 in its Review of Conditions By Requiring CEQA Review for the Projects on the Drill Site.

The Review of Conditions for the West Pico Drill Site must be compliant with CEQA and with the City's own guidelines in ZA Memo 133. It has been established beyond the shadow of a doubt that mitigation measures from the 2000 approval and its associated EIR have failed to protect the community. Odor complaints from the community are well document and are matched by testimony from Council Member Paul Koretz. The Los Angeles Fire Department also imposed citations on the operators of the West Pico Drill Site for leaving petroleum exposed on surfaces in 2017 and 2018.

Multiple conditions from the 2000 approval have been violated, and the City has failed to enforce mitigation measures established through the associated EIR. Conditions 46, 47, 53, 57, 61, 72, and 78 (concerning odors, nuisance, good oil field practices, redrilling, and reviews of conditions) have all been violated. "Mitigating conditions are not mere expressions of hope." (*Lincoln Place Tenants Ass'n v. City of Los Angeles* (2005) 130 Cal.App.4th 1491, 1508.) CEQA requires mitigation measures to be concrete and enforceable. (Pub. Resources Code § 21081.6(b).) From at least 2006 to the present the ZA and the City have failed to monitor or enforce these conditions in violation of CEQA.

In addition to those ongoing CEQA violations by the City, PCEC has stepped forward to do honest research on projects executed at the site since 2000. PCEC agrees with NASE that there have been 25 unapproved projects, including 24 projects on oil wells that require discretionary review by the ZA according to City code, and thus CEQA clearance by State law. ZA Memo 133 directly states that proposals to drill, redrill, or convert wells are ineligible for categorical exemptions under CEQA. The 25 unapproved projects and the obvious need to revise mitigation measures makes reliance on categorical exemptions utterly improper. An Initial Study and an MND are required, at minimum, and that is what NASE requests.

3. The Continuing Impacts to the Community Demonstrate a Need to Impose New Conditions Through the Review of Conditions.

The ongoing impacts to the community surrounding the West Pico Drill Site, and the numerous violations of existing conditions of approval, demonstrate a clear need to impose new conditions through the Review of Conditions process to prevent these problems from continuing.

Based on NASE's familiarity with the impacts to the community and the existing conditions, it is our position (supported by PCEC) that the following new conditions must be adopted:

- Annual Compliance Inspections led or overseen by qualified professional staff in the Office of the Petroleum Administrator.

- Permanent 24/7 Emissions Monitoring, with recorded data that is reported to the Petroleum Administrator, the ZA, and the public on a quarterly basis.

- Incorporation of the requirement of cyclical Five Year Reviews of Conditions from the 2001 Settlement Agreement into the ZA conditions for the site, using the full procedures delineated in Condition 78 of the 2000 approval as per the Settlement Agreement.

- Immediate Emergency and Accident Reporting to the City (to LAFD, the Petroleum Administrator, and the local Council office) for any emergency or accident that must be reported to any Federal, State, or regional agency.

The need for additional conditions may be identified through the comprehensive compliance inspection as well.

4. The Review of Conditions Must Correct Several Errors from the 2000 Approval.

The Review of Conditions for the West Pico Drill Site must also correct significant errors from the 2000 approval that are inconsistent with City law, the actual record of approvals for the site, and the facts of what actually exists at the site. Those errors include:

- **Delete Condition 72 to Eliminate its Contradiction with LAMC 13.01.H and 13.01I.** This condition addressing "redrilling" directly contradicts the provisions of Los Angeles Municipal Code sections 13.01.H and 13.01.I. Both of these sections require discretionary approval by the ZA before any oil well is drilled, redrilled, or converted between producer and injection well. The contradiction may have contributed to the rash of unapproved projects at the site since 2000, including the redrilling of 12 wells since 2000 without ZA review, approval, or CEQA clearance. Condition 72's undermining of LAMC 13.01.H and 13.01.I on drilling and redrilling wells may have also contributed to the conversion of 10 wells since 2000 without ZA review, approval, or CEQA clearance per the requirements of ZA Memo 133.

- **Correct the Number of Existing Wells.** The 2000 ZA approval for the West Pico Drill Site incorrectly asserts that 69 wells existed at the site in 2000 and that 69 wells had been approved. Only 59 wells currently exist at the site, and only 57 existed in 2000. Only 57 wells have been approved for the site by the ZA. The ZA's error in 2000 reflected a lack of knowledge about the drill site, a lack of knowledge about the difference between a well cellar and a well, and a failure to cross-check with State records from DOGGR (now CalGEM) even as the ZA wrote conditions requiring that all monitoring agencies need to be consulted. This error may have contributed to the drilling of unapproved wells without CEQA clearance in 2005 and 2010.

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B. These Remedies Are Necessitated by the Ongoing and Potential Legal Violations.

NASE has chosen to focus on remedies in this communication in a continuing effort to achieve relief for the community and legal compliance by the City. However, the description of the remedies, above, should provide you with an indication of some of the legal violations we may seek to challenge in court, if necessary. These include:

- Ongoing violations of CEQA for the City's failure to enforce mitigation measures from the EIR associated with the 2000 approval for the West Pico Drill Site.

- Failure to require CEQA review for discretionary, and recently discovered, well drilling, redrilling and conversion projects at the West Pico Drill Site.

- The proposed improper reliance on categorical exemptions for the current review of the West Pico Drill Site.

- Failure to enforce LAMC 13.01.H and 13.01.I by allowing operation of 25 unapproved oil well projects on the West Pico Drill Site.

- Violated LAMC 13.01.E.2.b by dividing the Controlled Drill Site into two sites in 2000.

- Breach of the 2000 Settlement Agreement due to the City's failure to conduct the required five-year reviews for the West Pico Drill Site for at least the last 10 years. No legally required reviews have been held during Councilmember Koretz's term in the City Council until NASE demanded this review in November 2019.

- The current ZA review process also appears to be running afoul of the requirements of the 2000 Settlement Agreement, CEQA and City regulations due to its improperly narrow focus and the ZA's stated position that the process would not result in the modification of any conditions.

Conclusion

The problems at the West Pico Drill Site are not isolated incidents and they are not unknown to City officials. The City has been negligent in its land use-based regulation of oil drill sites, failing to protect the communities impacted by these drill sites. It has never performed regular inspections to monitor for compliance with ZA-assigned conditions, and so mitigation measures routinely are not followed and not enforced. Similarly, the City continues to engage in a pattern and practice of handing out categorical exemptions from CEQA review for oil projects, contrary to the requirements of CEQA, ZA Memo 133 and LAMC 13.01.H and 13.01.I. Taken together, this pattern of negligence gives a green light to unapproved projects and turns a blind eye to poor work practices, all at the expense of communities the City is supposed to protect.

Most confounding here is the City's refusal to address environmental, health, and safety protections when an operating oil company comes forward to join with the community in asking the City to implement CEQA properly and to do inspections, require emissions monitoring, and perform serious reviews. This situation must be remedied. It is NASE's hope that the current ZA process can be revised to begin to address these ongoing issues, but if not, we are prepared to pursue available legal options.

Thank you for your time and consideration in this matter.

Sincerely,

Amy Minteer

cc:
City Attorney Mike Feuer c/o maria.mattera@lacity.org
Assistant City Attorney Terry Kaufmann-Macias - terry.kaufmann-macias@lacity.org
Deputy City Attorney Jennifer K. Tobkin - jennifer.tobkin@lacity.org
Director of City Planning Vince Bertoni - vince.bertoni@lacity.org
Deputy Director of City Planning Lisa Webber - lisa.webber@lacity.org
Chief Zoning Administrator Estineh Mailian - estineh.mailian@lacity.org
City Planner Edber Macedo - edber.macedo@lacity.org
Acting Petroleum Administrator, Erica Blyther - erica.blyther@lacity.org
Council Member (CD5) Paul Koretz - paul.koretz@lacity.org
CD5 Chief of Staff Joan Pelico - joan.pelico@lacity.org
CD5 Senior Land Use Deputy Daniel Skolnick - daniel.skolnick@lacity.org
CD5 Director of Environmental Affairs Andy Shrader - andy.shrader@lacity.org
Emily Alpert Reyes (LA Times) - emily.alpert@latimes.com
Richard S. Weiner (NASE) - rswatty@ca.rr.com
Dr. Rae Drazin (NASE) - rae@md-advocate.net
Professor Michael Salman - salman@history.ucla.edu

ATTACHMENT 3

OFFICE OF ZONING ADMINISTRATION

MEMORANDUM

ZA MEMORANDUM NO. 133

September 19, 2016

TO: Office of Zoning Administration
Development Services Centers
Department of Building and Safety
Department of Public Works – Bureau of Engineering
Los Angeles Fire Department
Los Angeles Department of Water and Power

FROM: Linn K. Wyatt
Chief Zoning Administrator

SUBJECT: **APPLICATION AND PROCESSING REQUIREMENTS, INCLUDING CEQA REVIEW, FOR OIL AND GAS APPROVALS PURSUANT TO LOS ANGELES MUNICIPAL CODE SECTION 13.01-H.**

This Memorandum supersedes ZA Memorandum No. 94, dated December 12, 1994, and ZA Memorandum No. 94A, dated March 24, 2000.

This Memorandum is intended to establish a comprehensive set of procedures and policies for the acceptance and processing of applications for oil drilling approvals pursuant to Los Angeles Municipal Code (LAMC) Section 13.01-H and to establish City guidelines for the California Environmental Quality Act (CEQA) review of Section 13.01-H oil drilling applications.

I. Background

The LAMC requires a formal application and a filing fee in conjunction with a request for a determination of conditions for the conduct of oil drilling pursuant to LAMC Section 13.01-H. Other than the requirement for an application and payment of a filing fee, the LAMC contains no express procedural requirements for the determination of conditions under Section 13.01-H for an original approval or for a modification or clarification to a previously approved determination of conditions.

Z.A. Memoranda Nos. 94 and 94A

Historically, as described in ZA Memoranda Nos. 94 and 94A, applicants were permitted to apply for modifications to the original conditions for oil drilling approvals through the use of a more limited review process (similar to a plan approval under LAMC Section 12.24-L and M).

The use of the process outlined in Memoranda Nos. 94 and 94A is no longer permitted for any Section 13.01-H application, including those submitted as a determination of conditions, modification of condition, request for clarification, or related approval. All applicants seeking an approval under Section 13.01-H must follow the application procedures outlined in this Memorandum. All applications seeking any approval under Section 13.01-H will be processed by the City, including the Office of the Zoning Administrator, pursuant to this Memorandum.

Existing Approvals with Modification Procedures

In addition to the above historical process, there are existing active approvals which include conditions establishing a process for subsequent modifications or condition review. An example of one condition reads substantially as follows:

> *Drilling operations for the first X wells identified in the grant clause of the instant determination shall be completed within 36 months from the effective date of this determination. The drilling for the following X wells as hereby authorized shall be subject to a review of plans by the Zoning Administrator, without a public hearing, for the purpose of updating the record with the well identification and path.*

Another condition reads substantially as follows:

> *Review of Conditions. Two years following completion of construction… the applicant shall submit a Plan Approval application for reviewing the effectiveness of these conditions. … The applicant shall submit a 500-foot radius map with accompanying labels for owners and occupants. The Zoning Administrator may set the matter for public hearing if warranted.*

Both of these conditions include processes that are inconsistent with the processes established in this Memorandum. The first condition is inconsistent because it allows for modifications without a public hearing. The second condition is inconsistent because it allows the Zoning Administrator to not set a public hearing for a Plan Approval and implies the notice radius is 500 feet.

To the extent that any existing condition or grant in an existing approval gives the Zoning Administrator discretion in the process to be followed for a modification or condition review, the procedures in this Memorandum shall be followed, in accordance with the findings in Section II and the purpose statements in Section III.

To the extent that any existing condition or grant in an existing approval mandates a procedure that is inconsistent with this Memorandum, the Zoning Administrator shall consider whether a Plan Approval process shall be initiated by the City to revise any conditions to protect the public health, safety and welfare, including any condition establishing a process inconsistent with the purpose of this Memorandum. On the other hand, if an existing condition or provision is not modified through a Plan Approval, then the process outlined in the existing approval shall be followed.

Nothing in this Memorandum is intended to expand the authority the City has to initiate a Plan Approval.

II. Findings

In issuing this Memorandum, the Zoning Administrator makes the following findings:

A. In adopting the California Environmental Quality Act[1], the Legislature declared:

> It is the intent of the Legislature that all agencies of the state government which regulate activities of private individuals, corporations, and public agencies which are found to affect the quality of the environment, shall regulate such activities so that major consideration is given to preventing environmental damage, while providing a decent home and satisfying living environment for every Californian. (Public Resources Code Section 21000(g).

B. The CEQA Guidelines provide that CEQA's basic goal of protecting the environment has two purposes:

(1) avoiding, reducing, or preventing environmental damage where possible by requiring alternatives or mitigation measures; and

(2) providing information to decision-makers and the public concerning the environmental effects of proposed and approved actions. (CEQA guidelines 15002(a).)

C. One oft-repeated purpose of the CEQA Guidelines is to provide for public participation, including as set forth in Section 15201:

> Public participation is an essential part of the CEQA process. Each public agency should include provisions in its CEQA procedure for wide public involvement, formal and informal, consistent with its existing activities and procedures, in order to receive and evaluate public reactions to environmental issue related to the agency's activities. Such procedure should include, wherever possible,

[1] Public Resources Code, Sections 21000, *et seq*.

making environmental information available in electronic format on the Internet, on the web site maintained and utilized by the public agency.

D. Although CEQA does not require formal hearings at any state of the environmental review process, section 15202 provides that:

...

(b) If an agency provides a public hearing on its decision to carry out or approve a project, the agency should include environmental review as one of the subjects for the hearing.

(c) A public hearing on the environmental impact of a project should usually be held when the lead agency determines it would facilitate the purposes and goals of CEQA to do so. The hearing may be held in conjunction with and as part of normal planning activities.

...

(f) A public agency may include, in its implementing procedures, procedures for the conducting of public hearings pursuant to this section. The procedures may adopt existing notice and hearing requirements of the public agency for regularly conducted legislative, planning, and other activities.

E. Applications for oil and gas projects under LAMC Section 13.01-H have the potential to create unique risks and hazards to have the potential for significant and immediate impacts on the health, safety, and welfare of the residents in and around the project site through increased noise, odor, dust, traffic, and other disturbances, as well as the potential to significantly impact the City's air, water, soil, biological quality, geology, water, stormwater and wastewater infrastructure, transportation, emergency response plans and other aesthetic values and community resources.

F. People living and working within the land use and environmental impact range of oil and gas operations and activities have a substantial interest in participating in a public hearing on 13.01-H approvals.

G. Section 13.01-H provides authority for the Zoning Administrator to condition, approve or deny a Section 13.01-H application under the City's police powers to protect public health, safety and welfare and to issue and implement reasonable procedures to process Section 13.01-H applications consistent with the requirements for due process.

III. Purpose and Intent of Memorandum

This Memorandum is issued with the following intent:

- Ensure that the City complies with all legal requirements of CEQA in approving Section 13.01-H projects;
- Provide all parties that may be impacted by a project subject to a Section 13.01-H application an opportunity to participate in a public hearing;
- Meet the intent of CEQA in the review and approval of CEQA findings and determinations, to provide adequate public participation;
- Ensure that staff has time to adequately consider and respond to, if necessary, evidence submitted on a Section 13.01-H application and its related environmental findings (including the CEQA Guideline Section 15300.2 exceptions) prior to the issuance of any decision;
- Provide decision-makers and City Staff, and the public with the information and data needed for adequate decision-making under CEQA and Section 13.01-H;
- Ensure that Section 13.01-H applications are processed efficiently;
- Ensure that applicants, staff, and the public can rely on a consistent practice in reviewing Section 13.01-H applications;
- Provide for transparent disclosure and participation process; and
- Ensure that the city's processing and approvals pursuant to 13.01-H will not result in adverse effects to public health, safety, and welfare

IV. Application Requirements

The original case number shall be used for the plan approval request. Before an application may be deemed complete, the applicant must submit:

1) A completed "Land Use Application For Oil & Gas Project Conditional Approval" (CP Form CP-7834) with all required attachments, as specified in the application and the Instructions (CP Form CP-7833.)
2) A completed Environmental Assessment Form for Oil and Gas Projects (EAF-O, CP-7832), with all required attachments.
3) The filing fee pursuant to LAMC Section 19.01.

V. Processing Section 13.01-H Applications

A. CEQA Review

The following review procedures are intended to provide guidelines to implement CEQA on all Section 13.01-H applications. Nothing in this Memorandum or the guidelines provided herein are intended to conflict with CEQA. To the extent that these guidelines are silent or ambiguous, the Zoning Administrator shall fall back on the requirements and intent of CEQA. To the extent that these guidelines impermissibly conflict with CEQA, the provisions of CEQA control. Nothing in these Guidelines is intended to conflict with the Permit Streamlining Act, Gov't Code Section Government Code § 65920 et seq.

1. Preliminary Review for Exemptions

No categorical exemption forms will be processed for consideration or issued at the Planning Department Development Services. The applicant shall submit a complete EAF-O form with their application, which shall be reviewed by the Zoning Administrator. The Zoning Administrator will conduct a preliminary review to determine whether the application qualifies for an exemption from environmental review pursuant to CEQA. The Zoning Administrator may require the applicant to provide additional supporting materials from the applicant to support the use of a categorical exemption.

An application to drill, re-drill, deepen, or convert a well is not eligible for a categorical exemption and shall require an Initial Study or an EIR as described in section V.A.2. All other projects may be reviewed to determine if the project is exempt under any applicable categorical exemption in CEQA Guidelines Section 15300-15333 or any City Guidelines (adopted pursuant to CEQA). If a project is determined not to fall into any categorical exemption based on the project description, an Initial Study shall be prepared pursuant to section V.A.2. If the project falls within a categorical exemption, the Zoning Administrator shall determine if, based upon the whole of the record, any exception to any exemption under CEQA Guidelines, Section 15300.2, applies to the project, including, but not limited to the following:

> Cumulative Impact. All exemptions for these classes are inapplicable when the cumulative impact of successive projects of the same type in the same place, over time is significant.
>
> Significant Effect. A categorical exemption shall not be used for an activity where there is a reasonable possibility that the activity will have a significant effect on the environment due to unusual circumstances.

If the project is determined to be categorically exempt (CE) and no exceptions apply, the Zoning Administrator shall do all of the following:

- Give the public hearing notice required in section V.B., including a notice of an intent to adopt a categorical exemption to all property owners and occupants within a 1,500-foot radius of the project site's outer boundary, and provide for a 35-day comment period on the project, prior to approval. The public hearing may be held during the comment period. The hearing notice (with the notice of intent to adopt a CE) must be provided in English and Spanish.

- If after the 35-day comment period, or any time prior to making a decision on the project, the Zoning Administrator determines that substantial evidence does not support the use of the exemption, including from the existence of an exception in Section 15300.2, the Zoning Administrator shall require an Initial Study to be prepared consistent with the procedures outlined herein.

- Alternatively, if the Zoning Administrator finds after the 35-day comment period, or any time prior to making a decision on the project, that additional information and analysis is required to determine if the categorical exemption is supported with substantial evidence, and the applicant desires the City to use a categorical exemption rather than a prepare an Initial Study, the Zoning Administrator may require the applicant to submit additional information or documents and/or technical studies or reports, including requiring the applicant to hire independent consultants to prepare any necessary technical studies or reports or peer review any prepared studies or reports. If after reviewing any additional documents, reports or studies, required by the Zoning Administrator, it is determined that a categorical exemption is not supported by substantial evidence, an Initial Study shall be prepared.

- If the use of the categorical exemption is supported by substantial evidence in the record at the time of the decision, the Zoning Administrator shall ensure the record contains a memorandum or narrative substantiating the use of the categorical exemption, including explaining how substantial evidence in the administrative record supports the use of the exemption, and that the Zoning Administrator considered whether any exception to an exemption under CEQA Guidelines Section 15300.2 is applicable, including providing where necessary an explanation or evidence to demonstrate that any comments submitted on the intent to adopt the Categorical Exemption do not provide substantial evidence that an exception applies or the exemption does not apply.

2. Initial Study Determination

For any project that does not qualify for a categorical exemption, including any project to drill, redrill, or convert a well, an Initial Study must be completed.

Nothing in this subsection is intended to require the preparation of an Initial Study, when a preliminary review of the project demonstrates an EIR is clearly required, pursuant to CEQA Guidelines Section 15060(d).

The Initial Study must be prepared by an environmental consultant with the qualifications and experience required in this Memorandum. The Zoning Administrator may require the applicant to provide any additional documents, information or technical studies or reports necessary to complete the environmental review of the project, including requiring the applicant to hire an independent contractor to prepare or peer review technical studies or reports. The Initial Study shall comply with Section 15063 of the CEQA Guidelines and be prepared using Appendix G to the CEQA Guidelines and any City issued procedures or guidelines.

If the Initial Study shows both of the following Health Impact Assessment Criteria apply, the Zoning Administrator shall also require a Health Impact Assessment (HIA), as defined in Subsection V.A.5., before preparing the environmental clearance for the project:

- one or more of the air or hazards impact thresholds on Appendix G identified as III(a), III(b), III(d), VIII(a),VIII(b), VIII(c),or VIII(g) are found to be "less than significant impact with mitigation"; and
- the project is within 1,500 feet of any sensitive receptors, as defined by SCAQMD.

After the Initial Study is completed (and the HIA, if necessary), the Zoning Administrator will determine whether the proposed environmental clearance for the proposed project is a Negative Declaration (ND) or a Mitigated Negative Declaration (MND) or whether an EIR is required pursuant to sections 15065 or 15064 of the CEQA Guidelines.

If the Initial Study demonstrates that all of the impact areas will have no impact or less than significant impact, the Zoning Administrator may prepare a ND. (Note: if the Health Impact Assessment Criteria apply, a ND could not be prepared because the Initial Study identified significant impact requiring mitigation.)

If the Initial Study (and the HIA, if required) demonstrates that the project will not result in a significant impact with mitigation imposed, the Zoning Administrator may prepare a MND.

If the Initial Study (and the HIA, if required) demonstrates that the project may result in a significant impact to the environment that cannot be mitigated to less than significant, the Zoning Administrator shall require the preparation of an EIR. In determining whether an EIR is required, the Zoning Administrator shall review and consider all of the following CEQA Guidelines, without limitation to any other applicable requirements of CEQA:

- 15064 (guidelines on determining significant impacts),
- 15064.4 (guidelines on determining greenhouse gas impacts),
- 15064.5 (guidelines on determining cultural and archaeological impacts), and
- 15065 (guidelines requiring consideration of Mandatory Findings of Significance, including subsection (a)(4): "The environmental effects of a project will cause substantial adverse effects on human beings, either directly or indirectly.")

If an ND or MND is issued, the Zoning Administrator shall publish a Notice of Intent to Adopt an ND or MND pursuant to CEQA Guidelines Section 15073, prepare the ND or MND findings (and the Mitigation Monitoring Program for a MND) and process the application pursuant to Section IV. The Public Hearing notice sent in section V.B. will include a statement that the City has published a Notice of Intent to Adopt an ND or MND and include a link to the City's website where the Notice of Intent is published. The Notice of Intent to Adopt an ND or MND shall be published on the City's website in English and Spanish.

If the Initial Study demonstrates the project requires an Environmental Impact Report (EIR), the Zoning Administrator shall follow the procedures in section V.A.3.

3. Environmental Impact Report

If an EIR is to be prepared on a project, in addition to any other requirements of CEQA, the City will require all of the following:

- Provide the Notice of Preparation to all property owners and occupants within a 1,500-foot radius of the project site's outer boundary; and
- Prepare a Health Impact Assessment, as defined in section V.A.5., if not already prepared, and provide a relevant summary of the Health Impact Assessment in the EIR where appropriate to inform the required analysis. The Health Impact Assessment shall be considered in any certification of the EIR and the approval, conditional approval, or denial of the Section 13.01-H application.

An environmental consultant with qualifications and experience provided in section V.A.4 must prepare the EIR. The EIR must be prepared and certified in compliance with CEQA, including but not limited, CEQA Guideline Sections 15080-15097, 15120-15155.

4. Environmental Consultant Qualifications

The City shall ensure that any environmental consultant that is preparing an Initial Study, MND, ND, or an EIR on a 13.01-H project has the following qualifications and experience:

- The Project Manager has at least seven (7) years' experience preparing CEQA documents.
- The Project Manager has prepared and/or reviewed at least five (5) EIRs for projects involving oil and gas drilling or production.
- The consultant or consultant team, including any subcontractors, have demonstrated training, knowledge, and experience in the following topic areas as they specifically relate to oil and gas projects: environmental health, public health, hazardous materials, air quality, GHG emissions, water quality, geology, noise, traffic, aesthetics, and risk and safety issues.
- In the case of EIRs or MNDs requiring Health Impact Assessments, the consultant team, including any subcontractors, has at least five (5) years' experience in preparing Health Impact Assessments. The consultant who prepares the HIA shall be familiar with accepted HIA process and content including, but not limited to, the "Minimum Elements and Practice Standards for Health Impact Assessment," Version 3.

The City shall ensure that all environmental consultants have copies of this Memorandum prior to preparation of any Initial Study, ND, MND or EIR.

5. Health Impact Assessment (HIA)

A HIA is defined as follows:

> A study of the project for the surrounding vicinity identifying pollution and population indicators, such as, but not limited to, those analyzed in the

California Communities Environmental Health Screening Tool; the number of people affected by the project; short term or permanent impacts caused by the project; likelihood that impacts will occur; and recommended mitigation measures.

Any HIA required under these procedures shall be used to inform whether an EIR is required and whether to approve, condition, or deny the application under Section 13.01-H.

B. Public Participation

The Zoning Administrator will hold a public hearing on all Section 13.01 applications prior to project approval.

Notice of this public hearing must be sent to all property owners and occupants within a 1,500-foot radius of the project site's outer boundary, in English and Spanish. For projects being approved with a CE, ND or MND, the Notice of Intent to Adopt a CE, ND or MND may be combined with the public hearing notice.

C. Final Determination

Notices of final decisions will be issued to the applicant, all residents abutting the project site, and all individuals who request such notice.

All Zoning Administrator Section 13.01-H Determinations may be appealed to the Area Planning Commission. The Area Planning Commission decision is final. All CEQA determinations by the Zoning Administrator or the Area Planning Commission are subject to appeal to the City Council pursuant to Public Resources Code Section 21151(c).

Nothing in this Memorandum is intended to limit the Zoning Administrator's express and inherent authority to administer LAMC Section 13.01-H.

LKW:lw

Planning APC West LA <apcwestla@lacity.org>

Case # ZA-1989-17683-PA2-1A, Supporting NASE's Appeal

1 message

Adam Rich <adamzr@gmail.com> Tue, Aug 3, 2021 at 1:59 PM
To: apcwestla@lacity.org

To the West Los Angeles Area Planning Commission,

I support NASE's appeal of the zoning administrator's decision in the West Pico Drill Site case (ZA-1989-17683-PA2-1A) and urge you to overturn the decision of the zoning administrator.

As a former board member of the South Robertson Neighborhoods Council board and a former Vice-chair of its Public Safety committee, I have had the opportunity in the past to review documents provided by NASE. I have become convinced that the West Pico drill site has been out of compliance for years.

I encourage the planning commission to spend the time to thoroughly investigate the claims made by NASE. I think you will find that the zoning administrator's decision was wrong in this instance.

I live a few blocks away from the drill site. I worship at a synagogue that is even closer. Emissions from that site could directly affect the health of my family and friends.

Thank you for your time and work on behalf of our community.

Sincerely,

Adam Rich

Los Angeles, CA 90035

Planning APC West LA <apcwestla@lacity.org>

Case # ZA-1989-17683-PA2-1A, Supporting NASE's Appeal

1 message

Aimee Zeltzer <zeltzerlaw@gmail.com> Tue, Aug 3, 2021 at 10:45 AM
To: apcwestla@lacity.org

To the West Los Angeles Area Planning Commission,

I support NASE's appeal of the ZA's decision in the West Pico Drill Site case (ZA-1989-17683-PA2-1A) and urge you to overturn the ZA's decision. The city's negligence and failure in regulating this oil drilling site (and others) is a willful disregard for the health and safety of the citizens who live in the area.

I urge you to overturn the ZA's decision in order to protect the health and safety of those who live in the affected areas.

Yours,

Aimee Zeltzer

1484 S. Beverly Drive, #202, Los Angeles, California 90035

--
"You know you are in love when you can't fall asleep because the reality is finally better than the dream."--Dr. Seuss

"Be who you are and say what you feel, because those who mind don't matter and those who matter don't mind" -Dr. Seuss

"A goal is a dream with a deadline." -Unknown

Aimee J. Zeltzer
Attorney at Law (California and N.Y.)

(310) 845-6406

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If you are a potential client, the information you disclose to us by email will be kept in strict confidence and will be protected to the full extent of the law. Please be advised, however, that KabbalawTM, aka, Law Offices of Aimee J. Zeltzer, and its attorneys, do not represent you until you have signed a retainer agreement with the firm. Until that time, you are responsible for any statutes of limitations or other deadlines for your case or potential case

Planning APC West LA <apcwestla@lacity.org>

Case # ZA-1989-17683-PA2-1A, Supporting NASE's Appeal

1 message

geoffreygee@sbcglobal.net <geoffreygee@sbcglobal.net> Mon, Jul 19, 2021 at 10:03 AM
To: apcwestla@lacity.org

To the West Los Angeles Area Planning Commission,

I support NASE's appeal of the ZA's decision in the West Pico Drill Site case (ZA-1989-17683-PA2-1A) and urge you to overturn the ZA's decision.

Yours,

Geoffrey

Geoffrey M. Gee, Esq.

2368 S. Beverly Glen Boulevard, Townhouse B

Los Angeles, CA 90064

Cell Phone: (818) 406-1303

Planning APC West LA <apcwestla@lacity.org>

Case # ZA-1989-17683-PA2-1A, Supporting NASE's Appeal.

1 message

Jacob Pelta <jbpmd712@gmail.com> Mon, Jul 19, 2021 at 4:09 PM
To: apcwestla@lacity.org

Please enforce the regulations that limit the days & hours when drilling is authorized.
To do any less is to abrogate your mandate.

Jacob Pelta,MD
9035 S
310-836-8227

Planning APC West LA <apcwestla@lacity.org>

ZA-1989-17683-PA2-1A, supporting NASE's appeal

1 message

Katy for LA City Council <info@katyforla.com> Mon, Aug 9, 2021 at 1:00 PM
To: apcwestla@lacity.org, dylan.sittig@lacity.org
Cc: Michael Salman <salman@history.ucla.edu>, Rabbi Yonah Bookstein <rabbiyonah@gmail.com>

To the Members of the West Los Angeles Area Planning Commission:

I am writing to strongly urge you to grant Neighbors for A Safe Environment's (NASE) appeal of the 6/2/21 Zoning Administrator (ZA) ruling. You have an excellent opportunity to protect public health and end Pacific Coast Energy Company's (PCEC) egregious conduct at the West Pico Drill Site, and you should take it.

PCEC has been engaged in ongoing, egregious violations at the West Pico Drill Site for years. In fact, PCEC explicitly admitted in its 6/19/20 letter to the ZA that it violated multiple sections of the Los Angeles Municipal Code by failing to comply with the City Code and CEQA. The ZA, for its part, has also recognized its own failure to comply with the City's own environmental review policies. Despite these admissions by both the site operator and the City's ZA, the ZA has decided to allow this unsafe and reckless oil drilling use to continue in the middle of a dense residential neighborhood. This result is dangerous - not only because of the potentially harmful public health impacts that PCEC's activities have on the surrounding neighborhoods, but also because it tells oil well operators across the City that they can ignore the City Code, ZA assigned conditions, the California Environmental Quality Act, and the ZA's own policies on environmental review with impunity.

You have an opportunity to legally terminate a use that is harmful to the health of the community, while at the same time making clear that violations of oil well operating permits will not be tolerated. As an environmental and land use attorney and a long-time area resident and LA City Council candidate running to represent the surrounding community, I urge you to seize the once-in-a-generation opportunity before you and choose to put our community's health first.

Sincerely,

Katy Young Yaroslavsky
Candidate for LA City Council District 5

Planning APC West LA <apcwestla@lacity.org>

Case # ZA-1989-17683-PA2-1A, Supporting NASE's Appeal

1 message

Louis Elfman <lelfman@me.com> Sat, Jul 31, 2021 at 1:53 PM
To: apcwestla@lacity.org

To the West Los Angeles Area Planning Commission,

As a resident who lives within one block of a drill site, it is vitally important to the health and wellbeing of myself and my wife and child be respected. As such, I demand that the ZA's decision on the West Pico Drill Site case (ZA-1989-17683-PA2-1A) be overturned, and stand in support of NASE's appeal of the ZA's decision.

Yours,

Louis Elfman
2097 W 28th St
Los Angeles, CA 90018

Connect Create Collaborate

Planning APC West LA <apcwestla@lacity.org>

Case # ZA-1989-17683-PA2-1A, Supporting NASE's Appeal

1 message

mhaatma@earthlink.net <mhaatma@earthlink.net> Tue, Aug 3, 2021 at 5:13 PM
Reply-To: mhaatma@earthlink.net
To: apcwestla@lacity.org

Dear West Los Angeles Area Planning Commission,

We are residents, homeowners, citizens and taxpayers living in the Pico-Robertson area for 40 years.

We very strongly support NASE's appeal of the ZA's decision in the West Pico Drill Site case (ZA-1989-17683-PA2-1A) and we urge you to overturn the ZA's decision.

We will continue to follow this matter very closely.

Most sincerely,

Dr. Mha Atma S Khalsa
Martha Oaklander
1536 S Crest Dr
L.A. 90035

soro
south robertson
neighborhoods council

West Los Angeles Area Planning Commission Department of City Planning
200 N Spring St
Los Angeles, CA 90012

July 22, 2021

Sent Via Email to: apcwestla@lacity.org

Re: ZA-1989-17683-PA2-1A, West Pico Drill Site, 9101 & 9151 W. Pico Blvd, Los Angeles, CA, 90035

To the West Los Angeles Area Planning Commission,

In regard to Case No. ZA-1989-17683, ENV-2020-1328-CE, and by vote of 13 yea, 0 nay and 1 abstention at the July 15, 2021 General Board meeting, the South Robertson Neighborhoods Council (SORONC) fully supports the appeal filed by NASE (Neighbors for A Safe Environment), a California nonprofit environmental organization formed by our neighbors in 2000 due to concerns about the West Pico Drill Site.

We have attached a letter by NASE's attorney Amy Minteer of Chatten-Brown, Carstens & Minteer LLP, and the letter's attachments and addenda, which delineate the basis for the appeal.

As Ms. Minteer's letter points out, the West Pico Drill Site is operating in violation of:

- the conditions under which the project was approved,
- the Los Angeles Municipal Code
- the California Environmental Quality Act (CEQA), and
- the 2001 Settlement Agreement with NASE which requires periodic reviews and corrective actions for environmental and operational defects.

SORONC is charged with affirmatively acting to support the health, safety, and welfare of our stakeholders. City laws and regulations that are supposed to govern the operation of the drill site are expressly intended to protect public safety and health., Likewise for CEQA, the State of California's landmark environmental law. Therefore we find the ZA Determination abhorrent due to the determination's utter disregard for City laws and regulations, and its evasion of the requirements for environmental review under CEQA. This puts the safety, health, and welfare of our stakeholders at unnecessary risk.

SORONC stakeholders of all ages live, work, eat, play, learn, socialize and invest in close proximity to the West Pico Drill Site.

Michael Lynn
President

Ken Blaker
Vice President

Terrence Gomes
Treasurer

South Robertson Neighborhoods Council

PO Box 35836
Los Angeles, CA 90035

P: (310) 295-9920
E: info@soronc.org

soronc.org

City of Los Angeles Certified Neighborhood Council

soro
south robertson
neighborhoods council

Our position is not new. We have documented it in submissions to the ZA in 2020, but are repeating it now in reaction to the dangerously unfortunate ZA Determination, which should not be allowed to stand.

Sincerely,

Michael Lynn

Michael Lynn, President,
for the South Robertson Neighborhoods Council General Board

cc:
Theodore Irving, Associate Zoning Administrator
Dylan Sittig, Assistant to Associate Zoning Administrator
Irving Estineh Mailian, Chief Zoning Administrator
Edber Macedo, Assistant to Chief Zoning Administrator Mailian
Terry Kaufmann-Macias, Assistant City Attorney
Jennifer Tobkin, Deputy City Attorney
Paul Koretz, Council Member CD5
Joan Pelico, Chief of Staff CD5
Daniel Skolnick, Land Use Deputy CD5
Andy Shrader, Environmental Policy Director CD5
Professor Michael Salman
Rabbi Yonah Bookstein
Richard S. Weiner, Secretary NASE
Dr. Rae R. Drazin, President NASE

2533 4th Ave
Los Angeles, CA 90018
salman@history.ucla.edu
August 9, 2021

West Los Angeles Area Planning Commission
Los Angeles City Hall
200 N. Spring Street
Los Angeles, CA 90012

Via Email to: apcwestla@lacity.org

Re: ZA-1989-17683-PA2-1A, Supporting NASE's Appeal

To the West Los Angeles Area Planning Commission

A Zoning Administrator (ZA) review pursuant to LAMC 13.01 and related sections of the Municipal Code is required to be a Quasi-Judicial endeavor. The ZA is enjoined to follow the law, make findings of fact, and not abuse discretion.

In this case, the ZA violated City law, violated Condition 78 of the 2000 ZA approval, and issued a determination that is wholly divorced from undisputed facts.

The ZA also violated the State's CEQA law and the ZA's own guidelines (ZA Memo 133) for implementing CEQA in oil cases by issuing a Categorical Exemption from CEQA. This was contraindicated in a case that was 1) commanded by Condition 78 to evaluate environmental impacts of project operations and evaluate the efficacy of mitigation measures, and 2) marked by 25 major illegal projects and myriad violations of law and ZA assigned conditions over the past two decades.

In short, the ZA's determination in Case No ZA-1989-17683-PA2 is shot through with errors of law and fact and self-contradictions. Abuses of discretion in the ZA's handling of the case are so extreme that they far exceed the definition of discretion and flow over into violation of law.

I am writing to prove that by showing you snapshots of key documents, and to let you know that those documents (or the information in them, with citations to the sources) were sent to the ZA and Council Member Paul Koretz during the course of the ZA review. I know that because I sent them to the ZA and ZA's office as well as to Mr Koretz and his staff. My submissions to the ZA and ZA's office should all be in the ZA case file.

I have advised and assisted NASE since October 2019, helping them to bring to the City's attention (particularly the Chief ZA, the Director of Planning, the City Attorney, and CD5 Council Member Paul Koretz) that the City was in breach of the 2001 Settlement Agreement and that there were documented problems at the site, including illegal projects. Since October 2019, I

have conducted research for NASE and the community on public record evidence to document and prove beyond the shadow of a doubt that there have been two decades of serious problems at the West Pico Drill Site since the 2000 ZA approval. As a Professor Emeritus of History at UCLA with 7 years of specialization on the history and current public policy of oil industry regulation in the City of Los Angeles, I bring a special set of skills to this task. [1] The substantive evidence presented to you by NASE's attorney, Ms. Minteer, largely comes from my research.

As I will show you below, the ZA cannot credibly claim he did not see the evidence proving that:

- Condition 78 of the 2000 ZA approval (ZA-1989-17683-PAD) required this current case to be a Review of Conditions in which the ZA must "evaluate the neighborhood impacts of project operations and the efficacy of mitigation measures," rather than a mere "Review of Compliance."
- DOGGR records and the oil company's admission prove that 25 major projects have been executed since 2000, 24 of them on oil wells (including drilling 2 new wells, redrilling 12 existing wells, and converting 10 wells) without ZA review and approvals required by LAMC 13.01.H and 13.01.I.
- LAMC 13.01.H defines the required reviews of these projects as "discretionary actions," in which the ZA is empowered to deny the application or require modifications or set conditions. That discretionary action triggers the need for CEQA clearance. Because the 25 projects were executed without the ZA reviews and approvals required by City Code, they were also executed in violation of CEQA with no environmental clearance at all.
- ZA Memo 133, promulgated in 2016 in response the City's settlement of a lawsuit concerning the City's routine granting of Categorical Exemptions in oil case, expressly prohibits eligibility for Categorical Exemptions in cases involving the drilling, redrilling, or conversion of oil wells. All three were done at this drill site.
- LAMC 13.01.E.2.b and the history of ZA approvals for the West Pico Controlled Drill Site make it clear that the site was and by force of law had to be one single integrated Controlled Drill Site up until the 2000 ZA approval split the single Controlled Drill Site into two illegal sites.
- The 2000 ZA approval also set an illegal condition, contrary to LAMC 13.01.H and 13.01.I, to allow "redrilling" to be conducted without full ZA review.
- LAMC 11.02 declares that "inconsistent permits" that conflict with the LAMC "shall be void," and LAMC 11.01 helpfully clarifies that the word "shall" means

[1] I am a recently retired professor of history at UCLA and a resident of the West Adams section of the City who lives 2500 feet from the Murphy Drill Site on West Adams Blvd and 2000 feet from the former 4th Avenue Drill Site on Washington Blvd (plugged and decommissioned in 2017-18 as result of unique circumstances and my advocacy alongside my neighbors and the important support of former City Council President Herb Wesson). Since 2014, I have researched the history of the oil industry and its regulation in the City, the SCAQMD district, and the State, while engaging in advocacy for strengthened regulation in all of those jurisdictions. As a history professor, I have research skills that few people possess, and I have a facility for learning about technology, law, economics, and public policy.

"mandatory," which makes the 2000 ZA approval void, makes all City permits issued pursuant to the 2000 ZA approval void, and makes void all LAFD drilling, redrilling, and annual oil well operating permits for wells that have had illegal projects.

The ZA simply chose to ignore this documentation and/or make up "alternative facts" not supported by the law and not supported by the case file and public record documents. No amount of discretion allows a ZA to do that, so this all is properly understood as "error" on both the law and undisputed facts.

The following snapshots of key documents will show you that the ZA ruling violated City Code, violated ZA assigned conditions, violated the State's CEQA law, and violated the ZA's own policy on environmental review. The ZA ruling is thoroughly in error. It must be overturned.

Page 1 of the ZA ruling from June 2, 2021.

- **The ZA granted an improper Categorical Exemption from environmental review (an exemption Mr. Koretz adamantly requested & defended).**
- **The ZA referred to Condition 78 of the 2000 approval and the 2001 Settlement Agreement that mandate a Review of Conditions that assesses environmental impacts and the effectiveness of mitigation measures. But the ZA refused to review conditions, environmental impacts, and the effectiveness of mitigation measures. At the two public hearings on the case the ZA stated he would not even consider revising any conditions, and by granting a CE from CEQA he put the question of environmental impacts and mitigation measures off the table. The ZA himself violated the ZA assigned condition.**
- **Last, the absurd operative determination that the site is and has been in compliance, despite all of the incontrovertible evidence to the contrary, violates City and the State's CEQA law by divorcing the ruling from any relation to fact.**

OFFICE OF ZONING ADMINISTRATION
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CITY OF LOS ANGELES
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ERIC GARCETTI
MAYOR

LOS ANGELES DEPARTMENT
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planning.lacity.org

June 2, 2021

Phil Brown (A/O)
Senior Vice President
Pacific Coast Energy Company
1555 Orcutt Hill Road
Orcutt, CA 93455

CASE NO. ZA-1989-17683-PA2
PLAN APPROVAL
9101 West Pico Boulevard
West Los Angeles Planning Area
Zone: C4-1VL-O
D.M.: 132B169
C.D.: 5 - Koretz
CEQA: ENV-2020-1328-CE
Legal Description: Lots 883-888, Block None, Tract TR 6380

Pursuant to California Environmental Quality Act (CEQA), I hereby DETERMINE:

That the project is exempt from CEQA pursuant to CEQA Guidelines Section 15301, (Class 1), and Section 15321 (Class 21) and, there is no substantial evidence demonstrating that any exceptions contained Section 15300.2 of the State CEQA Guidelines regarding location, cumulative impacts, significant effects or unusual circumstances, scenic highways or hazardous waste site, or historical resources applies.

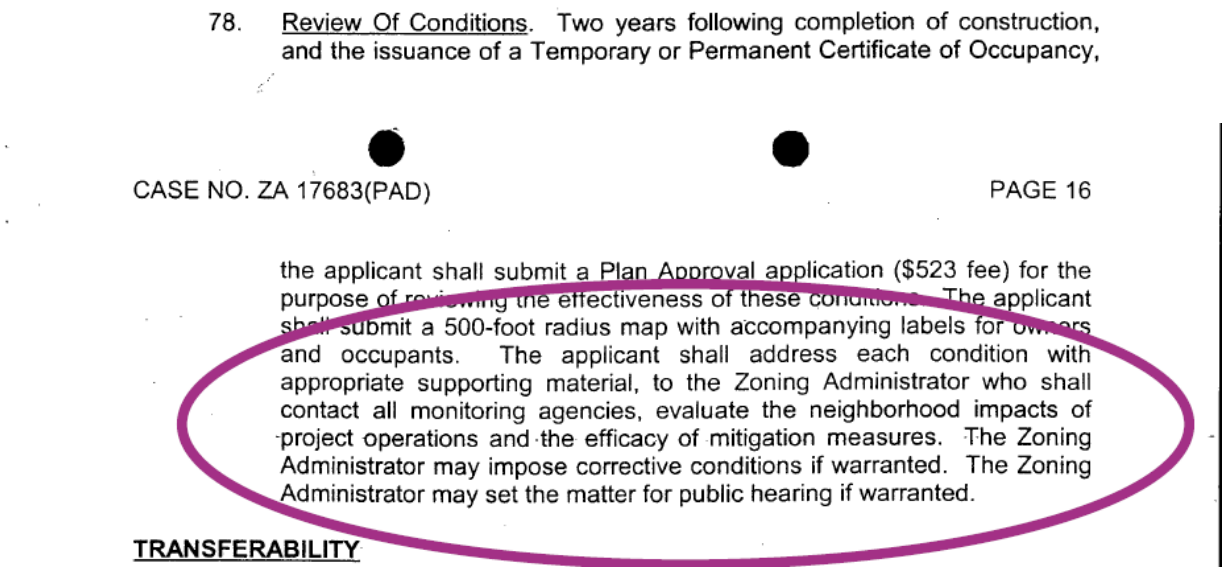
Pursuant to Los Angeles Municipal Code Section 12.24 M, and as required by Condition No. 78 under Case No. ZA-17683(PAD), BZA No. 2000-1697 and clause 4.b of the 2001 Settlement Agreement, between the City of Angeles, Neighbors For A Safe Environment, (NASE), Rae Drazin, Ph.D., Mina Solomon, and Breitburn Energy Company LLC, to settle litigation relating to approvals for the construction and operation the West Pico Drill Site Modernization Project, Neighbors For A Safe Environment v City of Los Angeles, Los Angeles Superior Court Case No. BC240760] ("Settlement Agreement").

I hereby DETERMINE, based on the whole of the administrative record,

That the Conditions of Approval of Determination BZA No. 2000-1697 have been and are being substantially complied with, though necessary inspections of the facility by government agencies will continue to ensure continued compliance.

Condition 78 from the 2000 ZA approval, which the 2001 Settlement Agreement extended to mandate Reviews of Conditions every 5 years.

- **You can see that Condition 78 calls for a "Review of Conditions" in which the ZA must "evaluate the neighborhood impacts of project operations and the efficacy of mitigation measures."**
- **The ZA refused to do this. The ZA violated a ZA-assigned condition imposed on the site, and thereby also violated the Settlement Agreement and the State CEQA law (the ZA refused to require environmental review).**



78. Review Of Conditions. Two years following completion of construction, and the issuance of a Temporary or Permanent Certificate of Occupancy,

CASE NO. ZA 17683(PAD) PAGE 16

the applicant shall submit a Plan Approval application ($523 fee) for the purpose of reviewing the effectiveness of these conditions. The applicant shall submit a 500-foot radius map with accompanying labels for owners and occupants. The applicant shall address each condition with appropriate supporting material, to the Zoning Administrator who shall contact all monitoring agencies, evaluate the neighborhood impacts of project operations and the efficacy of mitigation measures. The Zoning Administrator may impose corrective conditions if warranted. The Zoning Administrator may set the matter for public hearing if warranted.

TRANSFERABILITY

PCEC's June 19, 2020 email to the ZA's office and City Attorney admitted that they executed 25 major projects, including 24 major oil well projects, without submitting any applications to the ZA for ZA review required by City Code and without CEQA clearance.

- **They even cited the Municipal Code that they violated: LAMC 13.01.H and 13.01.I, which require ZA reviews and approvals that the ZA cannot bypass or refuse to conduct.**
- **The ZA decided that he did not need to follow the City's law requiring ZA reviews of drilling, redrilling, and well conversions. That is illegal.**
- **PCEC provided a detailed list of unreviewed projects, identifying the well name, the nature of the project (new drill, re-drilll, conversion), and the year conducted. The full PCEC email with the itemized list has been sent to the APC by Amy Minteer.**
- **I was the community member who brought this matter of unreviewed and unapproved projects to PCEC's attention. I personally reviewed the DOGGR (State**

regulatory agency) records for each well on the site and compared them to the absence of any ZA approvals in the City Records boxes of case file for the site.

- **I informed the ZA's office about the problem of unreviewed and unapproved projects by early spring 2020. I sent the ZA office DOGGR well records and provided citations to find all of them online.**

Connect
Create
Collaborate

Dylan Sittig <dylan.sittig@lacity.org>

PCEC West Pico Project

Michael Finch <mfinch@energyprojectllc.com> Fri, Jun 19, 2020 at 4:34 PM
To: Edber Macedo <edber.macedo@lacity.org>
Cc: "Lisa.Webber@lacity.org" <Lisa.Webber@lacity.org>, "Estineh.Mailian@lacity.org" <Estineh.Mailian@lacity.org>, "Vanessa.Soto@lacity.org" <Vanessa.Soto@lacity.org>, "Jennifer.Tobkin@lacity.org" <Jennifer.Tobkin@lacity.org>, Dylan Sittig <dylan.sittig@lacity.org>, Philip Brown <philip.brown@pceclp.com>, "Rick Clark (rick.clark@pceclp.com)" <rick.clark@pceclp.com>

Edber, per our conversation here is our thoughts on the items we discussed.

PCEC was recently contacted by a member of the public and several issues and outstanding questions have been brought to our attention, including (1) whether the wells that have been drilled, re-drilled, and/or converted since the 2000 ZA approval required further ZA approval under LAMC 13.01H and 13.01I; (2) whether activities such as drilling, re-drilling, and/or converting wells underwent adequate CEQA review as part of the EIR process for the 2000 ZA approval; and (3) whether Condition #1 of the 1965 ZA 17683 and Condition #B-49 of the 2000 ZAD 17683 need to be modified to reflect that onsite generation of power is occurring on the production site.

With regard to the first issue, after reviewing our well files, and the 2000 ZA determination, it is clear that certain wells have been drilled, re-drilled and converted since that approval – see "Well List" below. In light of LAMC 13.01H and 13.01I, a question has surfaced regarding whether these well activities required further authorization or approval by the ZA. We have not seen any approvals by the ZA and our conclusion is that applications were likely never submitted to the City. We believe this was because of Condition 72 of the 2000 ZAD 17683 determination which states in part *"Without prior written approval from the Zoning Administrator, no more than the existing 69 wells may be drilled, operated or maintained at the site and these wells shall be located at their current surface locations."* This condition suggests that the 2000 ZA approval covered a total of 69 wells and, provided the facility did not exceed the 69 wells, no further ZA approvals for drilling and redrilling were required. However, it appears the facility may not have had 69 existing wells at the time of the determination. This may have been a misunderstanding during the determination between well "slots" vs actual wells. In any event, a question now exists regarding whether the wells that have been drilled, re-drilled, and/or converted since the 2000 ZA approval required further ZA review and approval pursuant to LAMC 13.01H and 13.01I.

A follow along question concerns the scope of environmental review done for the 2000 approval and whether the review covered specific well activities. It's been suggested that as part of the 2000 approval (drill site modernization project) the activity of drilling, redrilling, and converting wells may not have been covered as part of the EIR process. Rather, the 2000 approval covered only construction of the perimeter walls and a permanent derrick, not drilling or well conversions, because apparently these activities were not part of the project description. If this is accurate, a question now exists regarding the adequacy of the currently proposed Categorical Exemption, and whether additional environmental review should be conducted to cover not only past well activities, but also those that are likely to occur in the future.

LAMC 13.01.H and 13.01.I

- City Code has required ZA review and approval of oil well projects as discretionary actions since 1945.
- The text of LAMC 13.01.H and 13.01.I has been fundamentally stable since 1955, and completely unaltered since 2000.

H. Drilling Site Requirements. Any person desiring to drill, deepen or maintain an oil well in an oil drilling district that has been established by ordinance, or to drill or deepen and subsequently maintain an oil well in the M3 Zone within 500 feet of a more restrictive zone shall file an application in the Department of City Planning on a form provided by the Department, requesting a determination of the conditions under which the operations may be conducted. **(Para. Amended by Ord. No. 173,492, Eff. 10/10/00.)**

I. Permits. (Amended by Ord. No. 173,268, Eff. 7/1/00, Oper. 7/1/00.) No person shall drill, deepen or maintain an oil well or convert an oil well from one class to the other and no permits shall be issued for that use, until a determination has been made by the Zoning Administrator or Area Planning Commission pursuant to the procedure prescribed in Subsection H of this section.

ZA Memo 133

- **ZA Memo 133 is ZA policy for how the ZA will process oil cases and decide on appropriate levels of environmental review mandated by the State's CEQA law.**
- **The City issued ZA Memo 133 in response to a lawsuit that the City settled in 2016. The lawsuit concerned the pattern and practice of the ZA handing out Categorical Exemptions (CEs) from environmental review in oil cases as if they were Halloween candy.**
- **Since the issuance of ZA Memo 133 in 2016, all 5 oil cases reviewed by the ZA have been given improper CEs from environmental review.**
- **ZA Memo 133 expressly prohibits the issuance of exemptions from environmental review in cases involving the drilling, redrilling, or conversion of wells. The West Pico Drill Site case has all three, and so much more.**
- **The ZA had proof that there had been 24 oil well projects since 2000 (2 new drills, 12 redrills, 10 conversions) and simply chose to ignore both City Code and ZA Memo 133.**

OFFICE OF ZONING ADMINISTRATION

MEMORANDUM

ZA MEMORANDUM NO. 133

September 19, 2016

TO: Office of Zoning Administration
Development Services Centers
Department of Building and Safety
Department of Public Works – Bureau of Engineering
Los Angeles Fire Department
Los Angeles Department of Water and Power

FROM: Linn K. Wyatt
Chief Zoning Administrator

SUBJECT: **APPLICATION AND PROCESSING REQUIREMENTS, INCLUDING CEQA REVIEW, FOR OIL AND GAS APPROVALS PURSUANT TO LOS ANGELES MUNICIPAL CODE SECTION 13.01-H.**

This Memorandum supersedes ZA Memorandum No. 94, dated December 12, 1994, and ZA Memorandum No. 94A, dated March 24, 2000.

This Memorandum is intended to establish a comprehensive set of procedures and policies for the acceptance and processing of applications for oil drilling approvals pursuant to Los Angeles Municipal Code (LAMC) Section 13.01-H and to establish City guidelines for the California Environmental Quality Act (CEQA) review of Section 13.01-H oil drilling applications.

I. Background

The LAMC requires a formal application and a filing fee in conjunction with a request for a determination of conditions for the conduct of oil drilling pursuant to LAMC Section 13.01-H. Other than the requirement for an application and payment of a filing fee, the LAMC contains no express procedural requirements for the determination of conditions under Section 13.01-H for an original approval or for a modification or clarification to a previously approved determination of conditions.

planning, and other activities.

E. Applications for oil and gas projects under LAMC Section 13.01-H have the potential to create unique risks and hazards to have the potential for significant and immediate impacts on the health, safety, and welfare of the residents in and around the project site through increased noise, odor, dust, traffic, and other disturbances, as well as the potential to significantly impact the City's air, water, soil, biological quality, geology, water, stormwater and wastewater infrastructure, transportation, emergency response plans and other aesthetic values and community resources.

F. People living and working within the land use and environmental impact range of oil and gas operations and activities have a substantial interest in participating in a public hearing on 13.01-H approvals.

G. Section 13.01-H provides authority for the Zoning Administrator to condition, approve or deny a Section 13.01-H application under the City's police powers to protect public health, safety and welfare and to issue and implement reasonable procedures to process Section 13.01-H applications consistent with the requirements for due process.

---

1. Preliminary Review for Exemptions

No categorical exemption forms will be processed for consideration or issued at the Planning Department Development Services. The applicant shall submit a complete EAF-O form with their application, which shall be reviewed by the Zoning Administrator. The Zoning Administrator will conduct a preliminary review to determine whether the application qualifies for an exemption from environmental review pursuant to CEQA. The Zoning Administrator may require the applicant to provide additional supporting materials from the applicant to support the use of a categorical exemption.

An application to drill, re-drill, deepen, or convert a well is not eligible for a categorical exemption and shall require an Initial Study or an EIR as described in section V.A.2. All other projects may be reviewed to determine if the project is exempt under any applicable categorical exemption in CEQA Guidelines Section 15300-15333 or any City Guidelines (adopted pursuant to CEQA). If a project is determined not to fall into any categorical exemption based on the project description, an Initial Study shall be prepared pursuant to section V.A.2. If the project falls within a categorical exemption, the Zoning Administrator shall determine if, based upon the whole of the record, any exception to any exemption under CEQA Guidelines, Section 15300.2, applies to the project, including, but not limited to the following:

Cumulative Impact. All exemptions for these classes are inapplicable when the cumulative impact of successive projects of the same type in the same place, over time is significant.

Significant Effect. A categorical exemption shall not be used for an activity where there is a reasonable possibility that the activity will have a significant effect on the environment due to unusual circumstances.

LAMC 13.01.E.2.b prohibits any more than one Controlled Drill Site in Oil Drilling District U-131, where the West Pico Drill Site is located.

- Oil Drilling District U-131 has 70 acres. It would require at least 80 acres to allow legal formation of two Controlled Drill Sites.
- LAMC 13.01 defines a Controlled Drill Site as the only kind of site on which oil drilling, wells, and production activities can be legally established in "urbanized" districts.
- Special procedures and a ZA review are required to approve a new Controlled Drill Site, if it is legally allowable.

2. **Urbanized Areas** – Each oil drilling district established in an urbanized area shall he subject to the following conditions:

(a) Each district shall be not less than 40 acres in area, including all streets, ways and alleys within the boundaries thereof.

(b) **(Amended by Ord. No. 173,268, Eff. 7/1/00, Oper. 7/1/00.)** Not more than one controlled drill site shall be permitted for each 40 acres in any district and that site shall not be larger than two acres when used to develop a district approximating the minimum size; provided, however, that where the site is to be used for the development of larger oil drilling districts or where the Zoning Administrator requires that more than one oil drilling district be developed from one controlled drilling site, the site may be increased, at the discretion of the Zoning Administrator when concurred in by the Board of Fire Commissioners, by not more than two acres for each 40 acres included in the district or districts.

The 1965 ZA approval (ZA-1965-17683) for opening the West Pico Drill Site expressly approved a single Controlled Drill Site spread over parts of two city blocks straddling Oakhurst Drive.

The 1967 ZA case (ZA-1967-18893) approved an expansion of that single Controlled Drill Site to cover two full City blocks fronting Pico Blvd, from Cardiff to Doheny.

- The ZA and ZA's office were directed to these ZA approvals repeatedly in spring and summer 2020.
- But the ZA kept insisting on following the error of the 2000 ZA approval that split the single Controlled Drill Site in two, contrary to City Code's prohibition in LAMC 13.01.E.2.b and contrary to the requirement to hold a special ZA review about establishing a second Controlled Drill Site.
- The ZA in his June 2, 2021 determination continues to insist there there are two different sites and that only one is under review.
- The ZA says the 1967 ZA approval split the site. It clearly did no such thing.
- Condition 76 of the 2000 ZA approval expressly superseded and replaced "all prior Conditions of Operation applicable to the drill site," which if it had been legal would have eliminated all approvals for half of the Controlled Drill Site:

EXHIBIT "P"

CITY OF LOS ANGELES
CALIFORNIA

HUBER W. SMUTZ
CHIEF ZONING ADMINISTRATOR

ASSOCIATE ZONING ADMINISTRATORS
CHARLES V. CADWALLADER
ARTHUR GVORIN
E. A. RUDGER

SAMUEL WM. YORTY
MAYOR

DEPARTMENT OF
CITY PLANNING

OFFICE OF
ZONING ADMINISTRATION

400 CITY HALL
LOS ANGELES, CALIF. 90012
MADISON 4-5211

August 17, 1965

Occidental Petroleum Corporation
ATTENTION: E. F. Reid,
Vice President
5000 Stockdale Highway
Bakersfield, California

Fire Prevention Bureau

Department of Building & Safety

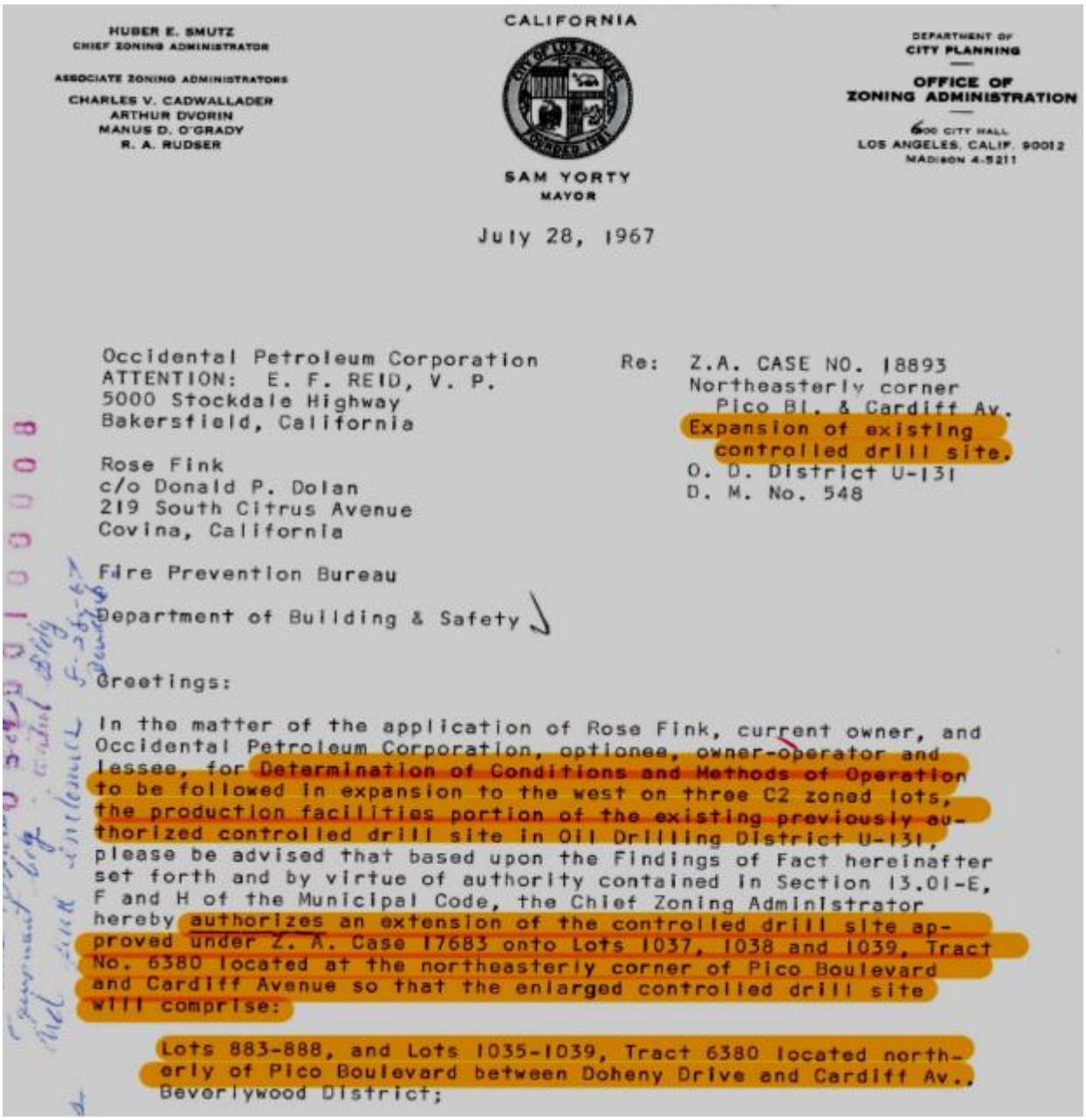
Re: Z. A. CASE NO. 17683
N'ly of Pico Blvd.
E'ly & W'ly of Oakhurst Drive
Oil Drilling District
No. U-131
D. M. No. 5484

Greetings:

In the matter of the application of Occidental Petroleum Corporation, owners and lessees, for approval of a controlled drill site and for determination of conditions and methods of operation to be followed in drilling for and production of oil and gas on a site consisting of two sections classified in the C2, R3 and R4-1 Zone in Oil Drilling District No. U-131, please be advised that based upon the Findings of Facts hereinafter set forth and by virtue of authority contained in Section 13.01-E, F and H of the Municipal Code, the Chief Zoning Administrator hereby authorizes the use of a site comprising:

> Lots 883-888, inc., and Lots 1035 and 1036, Tract 6380, located northerly of Pico Boulevard and extending from Doheny Drive to include the northwesterly corner of Oakhurst Drive, Beverlywood District,

as a controlled drill site on which to drill wells and conduct surface operations in connection with the development and bottoming of wells under Oil Drilling District U-131, consisting of that 70-acre drilling district depicted and described on the map which is a part of Ordinance No. 130340, as well as for surface operations in connection with wells which by subsequent action may be authorized to be bottomed under adjoining and adjacent districts, and also



HUBER E. SMUTZ
CHIEF ZONING ADMINISTRATOR

ASSOCIATE ZONING ADMINISTRATORS
CHARLES V. CADWALLADER
ARTHUR DVORIN
MANUS D. O'GRADY
R. A. RUDSER

CALIFORNIA

SAM YORTY
MAYOR

DEPARTMENT OF
CITY PLANNING

OFFICE OF
ZONING ADMINISTRATION

600 CITY HALL
LOS ANGELES, CALIF. 90012
MADISON 4-5211

July 28, 1967

Occidental Petroleum Corporation
ATTENTION: E. F. REID, V. P.
5000 Stockdale Highway
Bakersfield, California

Rose Fink
c/o Donald P. Dolan
219 South Citrus Avenue
Covina, California

Fire Prevention Bureau

Department of Building & Safety

Re: Z.A. CASE NO. 18893
Northeasterly corner
Pico Bl. & Cardiff Av.
Expansion of existing
controlled drill site.
O. D. District U-131
D. M. No. 548

Greetings:

In the matter of the application of Rose Fink, current owner, and Occidental Petroleum Corporation, optionee, owner-operator and lessee, for Determination of Conditions and Methods of Operation to be followed in expansion to the west on three C2 zoned lots, the production facilities portion of the existing previously authorized controlled drill site in Oil Drilling District U-131, please be advised that based upon the Findings of Fact hereinafter set forth and by virtue of authority contained in Section 13.01-E, F and H of the Municipal Code, the Chief Zoning Administrator hereby authorizes an extension of the controlled drill site approved under Z. A. Case 17683 onto Lots 1037, 1038 and 1039, Tract No. 6380 located at the northeasterly corner of Pico Boulevard and Cardiff Avenue so that the enlarged controlled drill site will comprise:

Lots 883-888, and Lots 1035-1039, Tract 6380 located northerly of Pico Boulevard between Doheny Drive and Cardiff Av., Beverlywood District;

Condition 72 of the 2000 ZA approval set an illegal procedure for allowing oil wells to be redrilled.

- LAMC 13.01.H and 13.01.I set requirements for ZA reviews of proposals to redrill wells and makes them discretionary projects.
- The ZA in 2000 violated City Code by writing a condition in conflict with the Code.
- The ZA in the current case ignored this illegality, continued it, and then extended it to cover the drilling of new wells and converting of wells, which were not discussed at all in the 2000 approval and is also in illegal conflict with City Code.

- The ZA in 2000 erred in mistaking the number of slots in the well cellar (69) for the number of actual wells. In 2000, there were 55 open wells at the Controlled Drill Site and 2 plugged wells. In 2005 and 2010 new wells were drilled without application to or approval from the ZA, bring the total today to 57 open wells at the site and 2 plugged wells.

72. Limitations On Well Redrilling. Without prior written approval from the Zoning Administrator, no more than the existing 69 wells may be drilled, operated or maintained at the site and these wells shall be located at their current surface locations. All wells will be drilled from existing well cellars using existing strings of pipe or surface conductor pipe. In the event that applicant redrills any of the existing wells, the applicant shall provide the Zoning Administrators office with duplicate copies of all filings pertaining to such well filed with the California Division of Oil, Gas and Geothermal Resources, including such filings showing the bottom-hole location and the total depth of each such well. Furthermore, the applicant, upon request by the Zoning Administrator, shall furnish such additional information concerning the status, exact bottom hole location, productivity, etc., of the various wells drilled from the property, as to enable the Zoning Administrator to properly and intelligently administer the oil drilling regulations in this area; said information to be either verbal or in writing and to be kept confidential by the Zoning Administrator if so desired by the applicant.

LAMC 11.02 makes void all permits inconsistent with City Code

- The ZA was shown the text of LAMC 11.02
- The ZA approvals from 2000 and 2021 are inconsistent with City Code.
- City permits issued pursuant to the 2000 ZA approval are void.
- LAFD drilling, redrilling, and annual oil well operating permits issued for the 22 well on which the 24 illegal projects were performed are void, because they are inconsistent with the requirements of LAMC 13.01.I that requires ZA approval before City permits are issued and before wells are drilled, redrilled, or converted.
- The ZA was sent copies of LAFD project permits, annual operating permits, CUPA HazMat permits, and improper and void LADBS permits related to the project addressed by the 2000 approval.
- The ZA ignored all of this and ruled that the site is in compliance.

SEC. 11.02. INCONSISTENT PERMITS AND LICENSES.
(Amended by Ord. No. 134,358, Eff. 6/8/67.)

Notwithstanding any other provisions of this Code or any other ordinance of the City of Los Angeles, no permit or license shall be issued in violation of any provisions of this Code or any other ordinance of the City of Los Angeles; if any permit or license is issued in violation of

any provision of this Code or any other ordinance of the City of Los Angeles the same shall be void. Any permit or license issued, which purports to authorize the doing of any act prohibited by any other provision of this Code or any other ordinance of the City of Los Angeles, shall be void. Provided, however, that upon publication of a zone change, height district or building line ordinance the Superintendent of Building may issue a permit for a building or structure which will comply with all of the requirements of the new zone, height district or building line. No such permit shall be issued unless the applicant has first executed and filed with the Superintendent of Building a notarized agreement assuming all risk and agreeing to remove all buildings or structures authorized by the permit in the event the zone change, height district or building line ordinance should become effective.

LAMC 11.01 defines "shall" as meaning "mandatory"; therefore the permits in conflict with City Code are void and the ZA has a duty to recognize that.

SEC. 11.01. DEFINITIONS AND INTERPRETATION.

(a) The following words and phrases whenever used in this Code shall be construed as defined in this section unless from the context a different meaning is intended, or unless a *different meaning is specifically defined and more particularly directed to the use of such words* or phrases:

. . .

"**Shall**" and "**May**." "**Shall**" is mandatory; "**May**" is permissive.

The ZA ruling in ZA-1989-17683-PA2 repeatedly ignores facts and replaces them with fiction. The ZA ruling repeatedly violates City Code, Condition 78 of the 2000 ZA approval, the 2001 Settlement Agreement, and CEQA.

The ZA ruling is in error concerning the law and the facts. It must be overturned.

Yours,

Michael Salman
Professor Emeritus
History, UCLA

Planning APC West LA <apcwestla@lacity.org>

ZA-1989-17683-PA2-1A, supporting NASE's appeal

1 message

Pamela White <pamelasw4224@gmail.com> Mon, Jul 26, 2021 at 2:09 PM
To: apcwestla@lacity.org, dylan.sittig@lacity.org

Hello,

As someone who resides within 1500 feet of the West Pico Oil Drill Site, I heartily support NASE's appeal of the Zoning Administrator's June 2, 2021 decision. Please overturn the ZA's ruling.

Sincerely,
Pamela White
1420 S. Oakhurst Drive, 90035

West Los Angeles Area Planning Commission; Elected City Officials; Candidates in 2022 City Elections,

501 people have signed a petition on Action Network telling you to Stop Illegal Oil Drilling in the City of Los Angeles.

Here is the petition they signed:

> We Support Neighbors for A Safe Environment's (NASE's) Appeal to Overturn the Zoning Administrator's Lawless Decision on the West Pico Drill Site (ZA-1989-17683-PA2-1A)
>
> On June 2, 2021, the Zoning Administrator (ZA) in the Los Angeles Department of City Planning Department issued a ruling that openly declares that illegal oil well drilling at the West Pico Drill Site can stand unaltered, unreviewed, and without remedy. The ZA likewise ruled that numerous other health, safety, and environmental violations of City law and the ZA's own Conditional Use Approval for the drill site do not matter.
>
> The ZA recognized the rampant illegality but ruled that the West Pico Drill Site is and has been in "substantial compliance."
>
> Yes, the ZA said up is down and 2+2=5. He contradicted himself openly and without a fig leaf of embarrassment. He openly declared he did not need to follow City law governing the review of oil drilling and production. His ruling was lawless and illegal.
>
> This is not just a danger to the communities around the West Pico Drill Site, but to all communities around all oil drill sites in the City.
>
> Neighbors for a Safe Environment (NASE) has appealed the ZA's ruling to the West Los Angeles Area Planning Commission. NASE is a local non-profit (501C4) neighborhood organization formed to protect the community from the impacts of oil drilling and production.
>
> • We, the signatories of this petition, support NASE's appeal to overturn the entirety of the ZA's dangerous and illegal decision.
>
> • We call on the West Los Angeles Area Planning Commission to study the case closely and thoroughly, and to preserve its jurisdiction over the case so that it is not rushed into hasty action.
>
> • We call on all elected officials in the City of Los Angeles and all candidates running for elected office to demand that the ZA's ruling be overturned and that the underlying Review of Conditions for the West Pico Drill Site be started again with clear instructions to obey all City and State laws and obligations, including those that require proper environmental review under the State's CEQA law and the terms of the City's 2001 Settlement Agreement with NASE.
>
> • We insist that illegal actions, illegal oil well projects, and violations of health and safety regulations must be remedied with penalties, increased protections for the community, and equitable measures in the interest of good public policy (such as the plugging of illegal wells and idle wells).

You can view each petition signer and the comments they left you below.

Thank you,

Pico Robertson Health and Safety Coalition

---

1. Karen GL (*ZIP code: 90034)*

2. David Mordecai (*ZIP code: 90035)*

3. Ariela Abugova (*ZIP code: 90210)*
Ariela

4. Ariel Snhe-Zanna (*ZIP code: 90035)*

5. Audrey Arlington (*ZIP code: 90018)*

6. Aaron Kogan (*ZIP code: 90035)*

7. Albert E. Aubin (*ZIP code: 90018)*

8. An anonymous signer (*ZIP code: 90064)*

9. David Abrookin (*ZIP code: 90035)*

10. Robert Helperin (*ZIP code: 90035)*
When will people's health be prioritized over making a buck?

11. Adam Richeimer (*ZIP code: 90035)*

12. Adelle Gross (*ZIP code: 90035)*

13. Ariel Fuhs (*ZIP code: 90035)*
Stop drilling in residential areas!!

14. Aida Shusterman (*ZIP code: 90210)*

15. Alexa Pogue (*ZIP code: 90046)*

16. An anonymous signer (*ZIP code: 90027)*

17. Alfred Adelpour (*ZIP code: 90034)*

18. Amanda Kogan (*ZIP code: 90035)*

19. Armen Markarian (*ZIP code: 90064)*

20. Aliza Hausman (*ZIP code: 90035)*

21. Linda Casale (*ZIP code: 90064)*

22. Alexander Zarcoff (*ZIP code: 90046)*

23. Angela Lee (*ZIP code: 90064)*

24. Angela Venegas (*ZIP code: 90018)*

25. Alisa Reich (*ZIP code: 90066)*

26. Mollie Wine (*ZIP code: 90034)*

27. Ardy Ishal (*ZIP code: 90035)*

28. Aria Zarifpour (*ZIP code: 90035)*
This is not acceptable and needs to be dealt with accordingly.

29. Ariel Robinson (*ZIP code: 90064)*

30. Arleen Weinstock (*ZIP code: 90067)*
We should pay attention to the hazards to humans from urban oil wells.

31. Anat Sadan (*ZIP code: 90211)*

32. Arlene Vinnick (*ZIP code: 90212)*

33. Ava Zarifpour (*ZIP code: 90035)*

34. Avi Hadjyan (*ZIP code: 90035)*

35. Avi Silver (*ZIP code: 91607)*

36. Bradley Morgan (*ZIP code: 90210)*

37. Barbara Dunn (*ZIP code: 90034-1802)*
Stop the illegal oil well drilling at the West Pico Drill Site (9101 & 9151 W Pico Blvd, LA 90035).

Zoning Administrator please stop for our health, safety, and the environment.

38. Barbara Goodhill (*ZIP code: 91423)*

39. Brett Barenholtz (*ZIP code: 90035)*

40. Rebecca Weiss (*ZIP code: 90035)*

41. Rebecca Klempner (*ZIP code: 90035)*
I was shocked to see that although the ZA noted multiple violations of regulations on June 2nd, they ruled that the Pico/Oakhurst oil well can remain in operation. I hope that the West Los Angeles Area Planning Commission overturns this ruling.

42. Bella Essas (*ZIP code: 90035)*

43. Ben Yeroushalmi (*ZIP code: 90212)*

44. Behzad Noorani (*ZIP code: 90034)*

45. Bonnie Siegal (*ZIP code: 90035)*

46. Aaron Biston (*ZIP code: 90035)*

47. Sheryl Winter (*ZIP code: 90034)*
Please stop the illegal drilling in my neighborhood. It is a health hazard and danger to my community.

48. masha schweitzer (*ZIP code: 90035)*

49. brad berger (*ZIP code: 90035)*

50. Bradley Caro Cook (*ZIP code: 90210)*
STOP IT NOW!

51. Bracha Tashman (*ZIP code: 90035)*

52. Brittany Domb (*ZIP code: 90035)*

53. Brooke Korda (*ZIP code: 90035)*

54. Bryan Chustckie (*ZIP code: 90035)*
STOP THIS DAMAGE AT ONCE! DO IT SOMEWHERE NOT AROUND PEOPLE

55. Bryan borenstein (*ZIP code: 91356)*

56. Brian Schwartz (*ZIP code: 90034)*

57. Sheldon Kasdan (*ZIP code: 90035)*

58. Shoshana Stroll (*ZIP code: 90035)*

59. William Korn (*ZIP code: 90035)*

60. Barbara Zuckerman (*ZIP code: 90035)*
This illegal oil drilling activity should not be allowed in a primarily residential neighborhood that is impacting the health and safety of the residents. This activity should be stopped immediately.
Barbara Zuckerman

61. Caroline Golian (*ZIP code: 90034)*

62. Charlie Carnow (*ZIP code: 90035)*

63. Carol Rivera (*ZIP code: 90019-4544)*
Drilling should not be near residential areas.

64. Cary Buchman (*ZIP code: 90035)*

65. Cate Silberstein (*ZIP code: 91343)*

66. Christine Carlson (*ZIP code: 90018)*

67. Christine Carlson (*ZIP code: 90018)*

68. Emanuel Taitz (*ZIP code: 90035)*
PLEASE STOP THIS . TOXIC POLLUTION NEEDS TO OUTLAWED IN LOS ANGELS!

69. Susan Clair (*ZIP code: 90018)*

70. Chanah Kaufman (*ZIP code: 90036)*

71. Chana Thaler (*ZIP code: 90035)*

72. Chava Shervington (*ZIP code: 90035)*

73. An anonymous signer (*ZIP code: 90018)*

74. Cherie Goldwag (*ZIP code: 90035)*

75. Cherie Lewis (*ZIP code: 90035)*

76. Christina Thau (*ZIP code: 90064)*

77. Cindy Kaplan (*ZIP code: 90035)*

78. Christal Khatib (*ZIP code: 90064)*

79. Claire Grieve (*ZIP code: 90035)*

80. Christine Vidovich (*ZIP code: 90731)*

81. Cindy Steinschriber (*ZIP code: 90035)*

82. Colleen Hellige (*ZIP code: 90035)*

83. Cara Grossman (*ZIP code: 90035)*

84. Craig Rutenberg (*ZIP code: 90064)*

85. Carmen Sanchez Sadek (*ZIP code: 90034-3406)*
We are in 2021, I think!!!!! ENOUGH!!!!!!!! WE MUST THINK about the F U T U R E!!!!! My children & grandchildren -- ENOUGH!!!!!!!!

86. Melissa Haddad (*ZIP code: 90064)*

87. Tashia Jenkins (*ZIP code: 90035)*
Why hasn't this oil drilling site been inspected to confirm it does not pose an environmental or safety risk to the people who live and work in the area. How can we be assured that their will not be a gas explosion if no one from the government inspects these oil drilling site? There are times when stench of gas in the neighborhood around the drill site is overpowering. PLEASE INSPECT ALL THESE DRILLING SITES!!!

88. Dennis aoki (*ZIP code: 90025)*
It looks like LA politicians have been bought off again!

89. Debora Barney (*ZIP code: 89144)*

90. Dalia Yasharpour (*ZIP code: 90034)*

91. Dali Gandara (*ZIP code: 90212)*

92. Danielle Prunier (*ZIP code: 90064)*

93. Danielle Lewis (*ZIP code: 90035)*

94. Daun St. Amand (*ZIP code: 90064)*

95. David Herskovitz (*ZIP code: 90034)*
I oppose ongoing drilling at the Pico location on the current basis.

96. David Leifer (*ZIP code: 90405)*
Our health and that of our neighbors in our community should be our first priority. No one should be allowed to poison our environment

97. Dean Weiss M.D. (*ZIP code: 90035)*

98. Deborah Fellman (*ZIP code: 90035)*

99. Debra Segura (*ZIP code: 90035)*

100. Devora Ebriani (*ZIP code: 90036)*

101. Dina Spivak (*ZIP code: 90212)*

102. Daniella Alyeshmerni (*ZIP code: 90035)*

103. David Klass (*ZIP code: 90212)*

104. Devorah Leah Wagshul (*ZIP code: 90035)*
My kids school across street and not safe

105. Deborah Marciano (*ZIP code: 90035)*

106. David Weiss (*ZIP code: 90035)*

107. Daniel Vinson (*ZIP code: 90211)*

108. Sarah Miller (*ZIP code: 90212-3540)*

109. Doug Schiller (*ZIP code: 90035)*
Enough already... is it too much to ask to enforce the law

110. denise anavim (*ZIP code: 90035)*

111. Dianne Lawrence (*ZIP code: 90018)*
Unbelievable!!!!

112. Dr. Mha Atma S Khalsa (*ZIP code: 90035)*

113. Sarah Eisenberg (*ZIP code: 91367)*

114. Eitan Shimonovitz (*ZIP code: 90064)*

115. Elaine S Kamil MD (*ZIP code: 90064)*

116. Elaine Becker (*ZIP code: 24018)*
This is insanely dangerous for nearby residents!

117. ElishevaRina Aufrichtig (*ZIP code: 90035)*

118. Ellen Doyle (*ZIP code: 90064)*

119. Benjamin Elterman (*ZIP code: 90035)*

120. Emberly Modine (*ZIP code: 90018)*

121. Enya Katz (*ZIP code: 90035)*

122. Eric Schwartz (*ZIP code: 90035)*

123. Esther Plotke (*ZIP code: 90004)*

124. Ezra Pollak (*ZIP code: 90035)*

125. Faith Schames (*ZIP code: 90035)*

126. Aviva Miriam Notowitz (*ZIP code: 90035)*

127. Daniel Braum (*ZIP code: 90035)*
Why are you not doing your job?

128. L P Felton (*ZIP code: 90064)*

129. Amy Phillips (*ZIP code: 90212)*

130. Tzofiya Bookstein (*ZIP code: 90035)*

131. Kamran Zarifpour (*ZIP code: 90035)*
This disregard for our community's health and safety needs to be addressed.

132. Greg Austin (*ZIP code: 90064)*

133. Gavin Abercrombie (*ZIP code: 90018)*

134. Gavriel Shalom Kollin (*ZIP code: 90035)*
Nu!

135. Grace Kamins (*ZIP code: 90034)*
Keep me informed re hearings and meetings. Thanks for bringing this to my attention.

136. GEOFFREY GEE (*ZIP code: 90064)*

137. gilat englanoff (*ZIP code: 90035)*

138. Gina Thornburg (*ZIP code: 91364)*

139. Jeff Gluck (*ZIP code: 90034)*
No more illegal oil drilling!

140. WARREN GOLDSTONE (*ZIP code: 90035)*

141. Gabriel (*ZIP code: 90035)*

142. GARY ZELCER (*ZIP code: 90064)*

143. Hannah Nelson (*ZIP code: 90035)*

144. Marc Morrison (*ZIP code: 90035)*

145. Heather Frenner (*ZIP code: 90212)*

146. Helene Korn (*ZIP code: 90064)*

147. Danya Helperin (*ZIP code: 90035)*

148. Hillel Aufrichtig (*ZIP code: 90035)*

149. Elana Aufrichtig (*ZIP code: 90035)*

150. Henry Morgen (*ZIP code: 90019-2550)*

151. Henry Lear (*ZIP code: 90005)*

152. honey eliasi (*ZIP code: 90035)*

153. Hunter Ochs (*ZIP code: 90018)*

154. Kim Genelle (*ZIP code: 90018)*

155. Ian Dawson (*ZIP code: 90034)*
I have no issue with legal oil well drilling. But, having found out that no oversight, review, penalties or safeguards by either the Zoning Administration or the LA Department of City Planning has occurred over the last few decades, requires public action and intervention to make the city do their legal job to protect citizens. Those that have ignored the law should be fired immediately and all drilling should stop until all wells are reviewed by an independent auditor, and only then can drilling permits be re-issued.

156. Ivan kamil (*ZIP code: 90064)*

157. Ilona Razhavsky (*ZIP code: 90035)*

158. Shari Rosemblat (*ZIP code: 90035)*
Fix it now

159. Isaac Midgen (*ZIP code: 90035)*

160. Shlomi Ronen (*ZIP code: 90034)*

161. PATRICIA Reed (*ZIP code: 90035-4621)*
This is ridiculous, the city officials are out of touch with the taxpaying citizens....

162. Irene Clark (*ZIP code: 90035)*

163. sanya ilich (*ZIP code: 90212)*
health, safety, and environment are the most important. Please stop oil drilling in Los Angeles county

164. Mark Israel (*ZIP code: 90064)*
Any oil drilling in the city is absurd. Illegal drilling must not be permitted.

165. Jacklin Zarifpour (*ZIP code: 90035)*

166. Jonathan Lewis (*ZIP code: 90064)*

167. Janet Gilmore (*ZIP code: 90034)*

168. jason ciment (*ZIP code: 90035)*

169. Jeff Astrof (*ZIP code: 90034)*

170. Jacob Pelta (*ZIP code: 90035)*

171. Jonah Kasdan (*ZIP code: 90035)*

172. Hsiuju Shen (*ZIP code: 90034)*

173. Jeff Goldman (*ZIP code: 90034)*

174. Jay Summers (*ZIP code: 90035)*

175. Jenny Porter (*ZIP code: 90035)*

176. jenny mogen (*ZIP code: 90019)*

177. Jeremiah Krickhahn (*ZIP code: 90018)*

178. Jeremy Mittman (*ZIP code: 90034)*

179. An anonymous signer (*ZIP code: 90019)*

180. Judy Kravitz (*ZIP code: 90035)*

181. Jill Seidel (*ZIP code: 90035)*
This makes no sense at all!
I would like to know how much he is financially benefiting from this. Unbelievable that public safety does not come first. He should be held accountable

182. Jimmy Biblarz (*ZIP code: 90048)*

183. Susan Ulmer (*ZIP code: 90064)*

184. RJ Roth (*ZIP code: 90066)*

185. Yonatan I Levinger (*ZIP code: 92109)*

186. Jean Markarian (*ZIP code: 90064)*

187. Judy Pollick (*ZIP code: 90035)*

188. John Vidovich (*ZIP code: 90731)*

189. JONATHAN KOHANOFF (*ZIP code: 90211)*
Please sign!

190. Jenny Jones (*ZIP code: 90034)*

191. Joanne Krevoy (*ZIP code: 90035)*

192. Joshua Louis (*ZIP code: 90048)*

193. Josh Grossmsn (*ZIP code: 90035)*

194. Benson Simmonds (*ZIP code: 90035)*

195. Joshua Papernik (*ZIP code: 90035)*

196. Jun Park (*ZIP code: 90006)*
Aria!

197. John Newman (*ZIP code: 90064)*

198. James Rothman (*ZIP code: 90503)*
I own a house in Beverlywood that could be negatively impacted.

199. Janet Robin (*ZIP code: 90035)*
I live 3 buildings from it! They need to shut it down.

200. Jeff Selick (*ZIP code: 90035)*

201. Judie Brodeur (*ZIP code: 90034)*
Ensure the health and safety of LA residents by requiring inspections and compliance with city codes.

202. Jacob Toubi (*ZIP code: 90035)*

203. Judith Kaplan (*ZIP code: 10024)*

204. Judith Siegel (*ZIP code: 90064)*

205. Judith Hantman (*ZIP code: 90024)*

206. JUDY STERN (*ZIP code: 90064)*

207. Julian Klotz (*ZIP code: 91411)*

208. Julia Berger (*ZIP code: 90035)*

209. Julie Goodman (*ZIP code: 90404)*

210. Julie Klein (*ZIP code: 90066)*

211. Ron Bieber (*ZIP code: 90211)*

212. Neda Loghmana (*ZIP code: 90211)*

213. Karen Antholis (*ZIP code: 90035)*
The City is supposed to protect the health of its citizens! It is appalling the my family has unknowingly been exposed to this pollution for years. The City must remedy this situation as soon as possible and make amends for the potential harm caused.

214. Karen Feinberg (*ZIP code: 90034)*
High time to get rid of this oil well and others like it here in the City. There is a reason we have CEQA on the books. It is time to enforce the regulatory laws

215. Diane Karrel (*ZIP code: 90034)*
On June 2, 2021, the Zoning Administrator issued a ruling that declares oil well drilling at the West Pico Drill Site can stand unaltered, unviewed, and unremedied. We strongly oppose this ruling and support the appeal by Neighbors for a Safe Environment.

216. Serin Bohorodzaner (*ZIP code: 90035)*
I am elderly and live 2 blocks away.

217. Kate Baskins (*ZIP code: 95864)*

218. ERIC KAUFMAN (*ZIP code: 90212)*
I'm a property owner on Oakhurst one block up in Beverly Hills with oil rights. I support drilling, provided such complies with all health and safety restrictions and is done so in a manner that is 100% compliant with all applicable laws.

219. Kelly Freedman (*ZIP code: 90034)*

220. Karen Fisher (*ZIP code: 90035)*

221. Kimberly Bastin (*ZIP code: 90035)*

222. Kimberly Michener (*ZIP code: 90018)*

223. Kingsley Smith (*ZIP code: 90064)*

224. Faye Lee (*ZIP code: 90064)*

225. Kevin Opos (*ZIP code: 90035)*

226. Kenneth Mejia (*ZIP code: 90017)*
No more green-lights for illegal oil drilling in the City of LA!

227. Aaron Korda (*ZIP code: 90035)*

228. Kristina Irwin (*ZIP code: 90077)*

229. Franchon McIntyre (*ZIP code: 90064)*

230. Damian Lang (*ZIP code: 90069)*

231. Laura Kleinhenz (*ZIP code: 90066)*

232. Laura Behary (*ZIP code: 90034)*

233. Lauren Linde (*ZIP code: 90064)*

234. Lauren Goldner (*ZIP code: 90035)*

235. Laurie Fox (*ZIP code: 90064)*

236. Loren Papernik (*ZIP code: 90035)*

237. Linda Broder (*ZIP code: 90035)*
Little Mom and Pop shops can't get away with anything, but oil companies free reign. This is not acceptable.

238. leigh greenberg (*ZIP code: 90035)*

239. Louis Elfman (*ZIP code: 90018)*

240. Leora Nam (*ZIP code: 90034)*
Please stop the drilling it is dangerous to the health of the community

241. Leslie Kessler (*ZIP code: 90034)*

242. Joshua Levine (*ZIP code: 90036)*

243. lauren hollingsworth (*ZIP code: 90034)*

244. Linda M (*ZIP code: 90018)*

245. Teri Cohan Link (*ZIP code: 90034)*

246. Lisa Friedman (*ZIP code: 91301)*

247. Lisa Schurga (*ZIP code: 90018)*

248. Elaine Livesey-Fassel (*ZIP code: 90064)*
My family and I agree that Oil Well Drilling in the City of Los Angeles must END/STOP if it is deemed ILLEGAL!

249. Elizabeth Steinlauf (*ZIP code: 90210)*

250. Elizabeth McDowell (*ZIP code: 91423)*

251. Leslie McDowell (*ZIP code: 90035)*

252. Luis Martinez (*ZIP code: 90018)*

253. Michael Logan (*ZIP code: 90025)*
Do not endanger our community!

254. Loreta Azarian (*ZIP code: 90024)*

255. Lorey Zlotnick (*ZIP code: 90034)*

256. Lisa Shura (*ZIP code: 90312)*

257. Louise Briggs (*ZIP code: 90212)*

258. Louise Goldwire (*ZIP code: 90018)*

259. Kenneth Lowenstein (*ZIP code: 44122)*

260. Lisa Pompan (*ZIP code: 90064)*

261. Lindsay Shea (*ZIP code: 90064)*

262. Lynda A Levy (*ZIP code: 90064)*
Embarrassment of riches but please keep drinking away from our special community. Transparency is

critical and this must stop

263. Madlen Tabibnia (*ZIP code: 90064)*

264. Mali Elfman (*ZIP code: 90018)*

265. Amanda Newstead (*ZIP code: 90035)*

266. Marc Freeman (*ZIP code: 90014)*
No oil drilling in residential, schools, houses of worship

267. Marcia Glaser (*ZIP code: 90034)*

268. Marilyn Greenberg (*ZIP code: 90035)*

269. Mark Waxman (*ZIP code: 90035)*

270. MARTIN KLEIN (*ZIP code: 90034-1802)*
Stop the illegal oil well drilling at the West Pico Drill Site (9101 & 9151 W Pico Blvd, LA 90035).

Zoning Administrator please stop for our health, safety, and the environment.

271. Matt Lincir (*ZIP code: 90732)*

272. Estela Zarate (*ZIP code: 90018)*

273. Mildred Rothschild (*ZIP code: 90035)*

274. Michael Fischer (*ZIP code: 90291)*

275. Melvyn Nefsky (*ZIP code: 90064)*

276. Eitan Melamed (*ZIP code: 90035)*

277. Maia Lefferman (*ZIP code: 90035)*

278. Melissa Kent (*ZIP code: 90034)*

279. Michael Saltzman (*ZIP code: 90034)*

280. Marina Moevs (*ZIP code: 90018)*

281. Mia Reback (*ZIP code: 90035)*

282. Michael Borkow (*ZIP code: 99034)*

283. Michal Shechtman (*ZIP code: 90016)*

284. Michael Reinis (*ZIP code: 90035)*

285. Michel Rafi (*ZIP code: 90035)*
The oil drilling site is too close to our residential area, just a block away, and next to a school with small children, it should be moved out of this area or strictly monitored.

286. andreia minasian (*ZIP code: 90034)*

287. Miriam Goldberg (*ZIP code: 90035)*

288. Mitchell Gross (*ZIP code: 90064)*

289. Matthew Lefferman (*ZIP code: 90035)*

290. Mehry Sepanlou (*ZIP code: 90210)*

291. Maureen Krantz (*ZIP code: 90035)*
Illegal drilling is dangerous for residents! Please stop it!

292. Molly Basler (*ZIP code: 90036)*
I stand for Clean Renewable Energy for the CITY OF Los Angeles. I am completely on board with the coalition to STOP Oil DRILLING IN LOS ANGELES and immediately close down Oil Drilling that is ILLEGAL.
Thank you for standing g up to BIG OIL!
Onward together!

293. MICHAEL MORA (*ZIP code: 90213)*

294. Mark Samara (*ZIP code: 90034)*

295. Melinda Smith Altshuler (*ZIP code: 90034)*

296. Michael Goldstein (*ZIP code: 90064)*
This ruling is an outrageous assault on the wellbeing of the people who live in this community, especially the young, the elderly, and those with serious existing health conditions. It is up to our elected representatives to make sure that the law and common sense are upheld.

297. Maureen Eisenberg (*ZIP code: 90035)*
Clean and safe energy starts at home. Considering the push for clean energy why be the on the wrong side of history by not adhering to safety limits in the center of an ever increasingly dense neighborhood. The correct action would be to totally shut down this facility due to its location.

298. Musi Abend (*ZIP code: 90036)*

299. Molly Shadpour (*ZIP code: 90034)*
This should be illegal. It's harming our community

300. Mark Shmagin (*ZIP code: 90035)*
I would like this facility to be shut down or severely limited.

301. Nadiya Leichtman Levine (*ZIP code: 90035)*

302. An anonymous signer (*ZIP code: 90064)*

303. Nancy Lichtenstein (*ZIP code: 90064)*
Stop illegal oil drilling in our city in our area codes 9101 and 9151 W. Pico Blvd., L.A. 90035

304. Natalie Ravanshenas (*ZIP code: 90035)*

305. Niloo Eizenberg (*ZIP code: 9035)*

306. Nancy Knupfer (*ZIP code: 90034)*
Please stop illegal drilling in our area! I frankly would prefer if they would stop all drilling!!!

307. Nora Rafi (*ZIP code: 90035)*

308. Norma Sanchez (*ZIP code: 90064)*

309. Nello Torri (*ZIP code: 90064)*

310. Neal Steiner (*ZIP code: 90034-1841)*

311. Ines Ware (*ZIP code: 91367)*

312. Olga Lexell (*ZIP code: 90035)*
I'm on the SORO NC Land Use committee

313. Rosa Corado (*ZIP code: 90018)*

314. Oren Hassidim (*ZIP code: 90035)*

315. Joanne Helperin (*ZIP code: 90035)*

316. Pamela White (*ZIP code: 90035)*

317. Parmer Fuller (*ZIP code: 90064)*

318. Parnaz Mansouri (*ZIP code: 90064)*

319. Paula Gild Stern (*ZIP code: 90024)*

320. Paul Aronoff (*ZIP code: 90064)*
Too dangerous if accidents occur.

321. Paul Hockley (*ZIP code: 90064)*
Close down W Pico and Rancho Park sites. They're dangerous to our health and a disaster waiting to happen!

322. Larry Eisenberg (*ZIP code: 90035)*

323. Pesach Chananiah (*ZIP code: 90019)*

324. Peter Steinlauf (*ZIP code: 90210)*

325. Liberti Montez (*ZIP code: 92020)*

326. Paul Williams (*ZIP code: 90035)*

327. Joshua Pretsky (*ZIP code: 90035)*

328. Paula Waxman (*ZIP code: 90035)*

329. Courtney Mizel (*ZIP code: 90035)*

330. Queen Sika Shone Harris (*ZIP code: 90802)*

331. Kathleen Noone (*ZIP code: 90034)*

332. Rabbi Muskin (*ZIP code: 90035)*

333. Yonah B (*ZIP code: 90035)*
The City is breaking the law and we are all in danger.

334. Rachel Bookstein (*ZIP code: 90035)*

335. Rachel Malk (*ZIP code: 90035)*

336. Rae Drazin, PhD (*ZIP code: 90035)*

337. Rose Aguero (*ZIP code: 90035)*

338. Rashelle Zelaznik (*ZIP code: 90064)*

339. Rebecca Mittman (*ZIP code: 90034)*
stop illegal oil well drilling! This site is adjacent to my childrens' school

340. DonnaAnn Ward (*ZIP code: 90018)*
Why does the City of LA continue to allow the safety and security of Angelinos to be second to oil and gas interests? California is supposed to lead the world in new technology and clean solutions. Why does the City of LA fail us at every point in the battle to get off fossil fuels? Follow the money.

341. Richard Horowitz (*ZIP code: 90210)*

342. Riley James (*ZIP code: 60657)*

343. Rivka Weinberg (*ZIP code: 90035)*

344. Roger Kulbe (*ZIP code: 90064)*
Drill baby, drill! Gas is way too expensive in CA (thanks to all the excessive taxes)

345. Roberta Golden (*ZIP code: 90035)*

346. Robert Finkel (*ZIP code: 90035)*

347. Robin Sax (*ZIP code: 90064)*

348. Linda Rohatiner (*ZIP code: 90035)*
I live within a quarter mile of the oil rig on Pico and Doheny and feel very unsafe especially since it is not checked regularly.

349. Steven Rowe (*ZIP code: 90018)*
Please stop all oil drilling in the City Of Los Angeles

350. Julie May (*ZIP code: 90034)*

351. Richard May (*ZIP code: 90034)*

352. Linda and Richard Weiner (*ZIP code: 90035)*
The ZA’s ruling was so full of inaccuracies and reached so many erroneous conclusions, that this appeal is appropriate and necessary.
Linda and Richard Weiner

353. Leslie Hal (*ZIP code: 90064)*

354. Adrianne Sachs (*ZIP code: 90035)*

355. Yoram Saghian (*ZIP code: 90034)*

356. Michael Salman (*ZIP code: 90018)*

357. Sam Yebri (*ZIP code: 90024)*
I am a candidate for Los Angeles City Council to represent CD5, have 4 children who attend school within a few blocks of the illegal Pico Doheny oil sites, and strongly support NASE's appeal.

358. Sam Glaser (*ZIP code: 90034)*

359. Sandra Luna (*ZIP code: 90006)*

360. Jonathan Sanford (*ZIP code: 90018)*

361. Sara Halpern (*ZIP code: 90035)*

362. Sarah Wintner (*ZIP code: 91316)*

363. Saran Kirschbaum (*ZIP code: 90035)*
I live near the oil well near me and found out there is an earthquake fault down Pico and Robertson. Where will that oil go? to my house just a few blocks away?
Review NOW and close it down before a quake happens.

364. Hadas Laureano (*ZIP code: 90035)*

365. Jennifer Savitsky (*ZIP code: 90035)*

366. Sholom Efune (*ZIP code: 90036)*
There is literally a sign on the building that says dangerous can cause reproductive harm. And this is a building directly across an all girl elementary school. How is this legal?

367. Silvia Cooper (*ZIP code: 90064)*

368. Sharon Fishman (*ZIP code: 90035)*

369. Scott Silver (*ZIP code: 90064)*

370. Suellen Mayfield (*ZIP code: 90291-3942)*

371. Luis Martinez (*ZIP code: 90018)*

372. Seth Glass (*ZIP code: 90035)*

373. Sandra Ghatan (*ZIP code: 90211)*

374. MEHRAN SHALIEH (*ZIP code: 90034)*

375. Ammar Amjad (*ZIP code: 90034)*
Stop oil drilling!

376. Shane Block (*ZIP code: 90035)*

377. Sharon Saks (*ZIP code: 90035)*

378. Sharon Silver (*ZIP code: 90035)*

379. H D (*ZIP code: 90035)*

380. Shawni Astrof (*ZIP code: 90034)*

381. Denise Mordecai (*ZIP code: 90036)*
Please protect the community.

382. Shelli B (*ZIP code: 90034)*

383. sherry jones (*ZIP code: 90034)*
Stop killing our earth

384. Shimon Weiss (*ZIP code: 90034)*

385. Shuki Greer (*ZIP code: 90035)*
It is appalling that this is allowed right in the heart of our neighborhood. If not for the abundant oil that these drillers have with which to slick their hair back and slide into politicians pockets, this would have been closed down years ago. In this age of conscious consumerism, we must get up to speed on this antiquated danger in our community.

386. Sigal Bar-Tal (*ZIP code: 90212)*

387. R T (*ZIP code: 90049)*

388. Bonnie Silverman (*ZIP code: 90034)*

389. Sivan Lasman (*ZIP code: 90035)*

390. Carrol Fenigstein (*ZIP code: 90034-1028)*

391. Susan Haymer (*ZIP code: 90046)*
Save the Planet Please.

392. Sally Maslon (*ZIP code: 90066)*

393. Sherry Saffer (*ZIP code: 90064)*

394. Susan Nachimson (*ZIP code: 90035)*

395. Julianne Sobel (*ZIP code: 90035)*
People in the area have autoimmune diseases and cancer at higher than normal rates.

396. Jennifer Malvin (*ZIP code: 90035)*
Jennifer Malvin

397. Sophie Melamed (*ZIP code: 90035)*

398. Jeffrey Handel (*ZIP code: 90035)*

399. Steven Peckman (*ZIP code: 90018)*

400. stacy brooks (*ZIP code: 90034)*

401. Constance St Amand (*ZIP code: 90064)*
Please stop illegal oil drilling.

402. Steven Kreitenberg (*ZIP code: 90035)*

403. Steven Fried (*ZIP code: 90035)*

404. Susan Smith (*ZIP code: 90035)*

405. Susan Silver (*ZIP code: 91607)*
No more oil drilling in LA!!

406. Suzanne Gehl (*ZIP code: 90064)*

407. Steve Zlotnick (*ZIP code: 90034)*

408. Amy Thogmartin (*ZIP code: 90064)*

409. Jessica B (*ZIP code: 90034)*

410. Alexis Nagler (*ZIP code: 90212)*

411. Ian Goodwin (*ZIP code: 90018)*
Oil is antiquated technology, it's time to evolve!

412. Eduardo Zetina (*ZIP code: 90018)*
The City must stop being lenient to large corporations at the expense of the local communities..every life matters.

413. Tuvia Korobkin (*ZIP code: 90035)*

414. Thomas Kun (*ZIP code: 90064)*

415. robert tomlinson (*ZIP code: 90034)*

416. Tova Zakaria (*ZIP code: 90048)*
My kids go to school across the street. The drilling puts them at risk

417. Tracey Jacoby (*ZIP code: 90069)*

418. David Vahedi (*ZIP code: 90034)*
Thank you for protecting our community!

419. Jennifer Kasten (*ZIP code: 90035)*

420. Susan Kaplan (*ZIP code: 11230)*

421. claudine sokol (*ZIP code: 90034)*

422. Moody Makar (*ZIP code: 90064)*

423. Andre Vanderhal (*ZIP code: 90064)*

424. Chava Vargas (*ZIP code: 90035)*

425. Vaughan Meyer (*ZIP code: 90064)*
These companies must comply with City laws! And the City must undertake reviews as required by City law.

426. Virginia P. Bland (*ZIP code: 90043)*

427. Niomi Martinez (*ZIP code: 90018)*

428. Niomi Martinez (*ZIP code: 90018)*

429. Victoria Miriam Chinn (*ZIP code: 91030)*
I am concerned about the safety of the Pico-Robertson neighborhood.

430. Victoria Roizen (*ZIP code: 90064-3313)*
Stop the drilling immediately to prevent future lawsuits.

431. Vladimir Rivera (*ZIP code: 90019)*

432. Vladimir Roizen (*ZIP code: 90064)*

433. Nancy GOLDSTONE (*ZIP code: 90035-3329)*

434. Warren Klein (*ZIP code: 90064)*

435. WALTER RIVERS, JR (*ZIP code: 90006)*

436. Ramona Tizabi (*ZIP code: 90035-1118)*

437. Joseph Bellinger (*ZIP code: 90035)*

438. Yael A (*ZIP code: 11367)*

439. Yardenna Hurvitz (*ZIP code: 90025)*

440. Stephen Yenser (*ZIP code: 90064)*

441. Yagil Tsaidi (*ZIP code: 90035)*

442. Nicholas Jacobs (*ZIP code: 90035)*

443. Yonaton Rosenzweig (*ZIP code: 90034)*

444. Zavanna Negron (*ZIP code: 90013)*

445. Shereen McDade (*ZIP code: 90018)*

446. Aimee Zeltzer (*ZIP code: 90211)*
Aimee Zeltzer

447. Zisa Meyers (*ZIP code: 90038)*

Cheviot Hills Home Owners' Association

P.O. Box 64458, Los Angeles, CA 90064 www.cheviothills.org

July 30, 2021

Via Email (apcwestla@lacity.org)

West Los Angeles Area Planning Commission, Department of City Planning
200 N. Spring Street
Los Angeles, CA 90012

Re: ZA-1989-17683-PA2-1A
West Pico Drill Site, 9101 & 9151 W. Pico Boulevard, Los Angeles, CA 90035
Appeal by Neighbors for a Safe Environment (NASE)

To the West Los Angeles Area Planning Commission:

The Cheviot Hills Home Owners' Association represents some 1400 households situated not far from the West Pico Drill Site.

Our Association has participated in multiple land use cases of various kinds that have come before the Zoning Administrator for review. Many of our members have done the same in their professional and private capacities. We are now writing in support of the pending appeal by Neighbors for a Safe Environment (NASE).

In the matter of the "Plan Approval" for the West Pico Drill Site (Case No. ZA-1989-17683-PA2 & ENV-2020-1328-CE), we urge the West Los Angeles Area Planning Commission to overturn both the error-filled June 2, 2021 Zoning Administrator determination and the inappropriate categorical exemption from environmental review on which the Zoning Administrator's faulty review was based.

From the perspective of our collective experience in land use cases, as well as our proximity to the West Pico Drill Site, we are dismayed that the City allowed 24 major oil well projects to be executed without applications to the Zoning Administrator for legally required discretionary reviews and environmental clearance under CEQA, not to mention a 25th major project to install one megawatt of microturbine electric generators that are expressly prohibited by ZA conditions of use. This is unfathomable to those of us who have wrestled with the rigors of Zoning Administrator reviews and CEQA reviews.

In light of these 25 illegal projects and numerous other documented violations of City Code and conditions of approval, it is incredible that the Zoning Administrator could declare on the first page of his June 2, 2021 determination that: ***"I hereby DETERMINE, based on the whole of the administrative record, [t]hat the Conditions of Approval of Determination BZA No. 2000- 1697 have been and are being substantially complied with."*** That is an error of law and facts, contradicted many times within the Zoning Administrator's own letter of determination.

We are troubled to learn that this massive evasion of required reviews was enabled by the lack of City compliance inspections, from the same City that inspects home remodeling, billboards and countless other less serious activities that require City approvals and permits. More than a few of our members are frightened to hear that a work culture of sloppiness involving violations of the City's Fire Code, State oil well safety laws, and SCAQMD air emissions laws has grown in the shadow of the City's inattention. We cannot understand how the City can approve initial land use entitlements for an activity as inherently risky and historically troubled as oil production, especially in a residential neighborhood, and then turn a completely blind eye to the most basic requirements of compliance and enforcement during the ongoing life of the land use. We cannot understand how the Zoning Administrator in the current case could order no corrective actions and write no new conditions to protect our health and safety, and at the same time declare that "inspections…will continue" when the City does not do even the most basic compliance inspections.

We hoped that the current ZA review would be the starting point to turn this situation around. We are frustrated that the opposite has happened.

The same oil drill site that was allowed to evade ZA reviews and environmental reviews for 25 major projects is now being exempted from environmental review and being given a pass on a shocking array of illegal projects and other violations. The same oil drill site that was supposed to have Reviews of Conditions in 2010 and 2015 to "evaluate…the efficacy of mitigation measures" and change them as warranted has received a review that excluded consideration of the need for enhanced mitigation measures. There has been no CEQA process to consider the efficacy of mitigation, monitoring and enforcement measures that have obviously failed. This violates both Condition 78 of the 2000 ZA approval and Section 4.b of the 2001 Settlement Agreement, as well as CEQA and every ZA approval since the drill site was first given land use entitlement in 1965. The statements of the presiding ZA at the two summer 2020 public hearings declaring that no mitigation measures will be changed short-circuited legally required review processes.

The 25 unapproved projects, dozens of illegal and void City permits, and other problems documented by community members and reported to the Zoning Administrator were not addressed, but were buried in contradictory statements in the ZA's determination, alternately recognizing some of the violations but then determining on the first page that there has been compliance. This allows illegal activity to stand in place without equity or protection for the community, and it sets in motion another violation of CEQA for segmenting a larger known project into smaller pieces that obscure the full environmental impact.

We strongly urge you to send this case back for the proper environmental review under CEQA that it should have received from the outset: An initial study, followed by either a Mitigated Negative Declaration or an Environmental Impact Report. That is the necessary procedural and substantive first step toward holding a full and proper ZA review that addresses all the requirements of Condition 78 of the 2000 ZA approval, Section 4.b of the 2001 Settlement Agreement, and the documented evidence of 25 major unapproved projects and dozens of additional permitting and compliance problems.

Our Association understands the importance of following proper rules and regulations. We rely on the rigor of the City's Zoning Administrator, Engineering, and Building and Safety reviews to keep us all safe when our local residents undertake projects that could have an impact upon neighbors. We cannot accept that the same agencies would allow an oil drill site in close proximity to our neighborhood to escape environmental reviews under CEQA and even facilitate it by granting an exemption, nor can we understand how 25 major projects at an oil drill site could be allowed to happen without a review and allowed to persist when reported to the Zoning Administrator.

Plainly, the correct course of action is to begin this review again and to do it properly.

Sincerely,

Bob Keehn, President
On Behalf of the Board of Directors, Cheviot Hills Home Owners' Association

cc: Theodore Irving, Associate Zoning Administrator
Dylan Sittig, Assistant to Associate Zoning Administrator Irving
Estineh Mailian, Chief Zoning Administrator
Edber Macedo, Assistant to Chief Zoning Administrator Mailian
Terry Kaufmann-Macias, Assistant City Attorney
Jennifer Tobkin, Deputy City Attorney
Paul Koretz, Council Member CD5
Joan Pelico, Chief of Staff CD5
Daniel Skolnick, Land Use Deputy CD5
Andy Shrader, Environmental Policy Director CD5
Professor Michael Salman
Rabbi Yonah Bookstein
Richard S. Weiner, Secretary NASE
Dr. Rae R. Drazin, President NASE

Planning APC West LA <apcwestla@lacity.org>

Case No. ZA-1989-17683-PA2-1A, Supporting NASE's appeal

1 message

Rebecca Klempner <beccaklempner@gmail.com> Wed, Jul 28, 2021 at 12:40 PM
To: apcwestla@lacity.org, dylan.sittig@lacity.org

Dear members of the Area Planning Commission:

I was unsurprised to receive notice of the meeting regarding the appeal of recent rulings on the West Pico Drilling Site, given we live just a block from the pumping station.

The facility has been decades-long nuisance for us. There are signs of what's going on on the pavement outside the facility -- you can sometimes see the rainbow-like colors indicating oil presence on the concrete sidewalk outside the retaining wall whenever there's water present (for example, after rain). However, many of the residents don't even know that behind the retaining wall is an oil well. It's not required for landlords or home sellers to tell new residents even though petrochemicals are a known carcinogen, and the longer you live by them, the more concern there is.
After reading that there are indeed multiple legal violations hidden behind that wall, it seems to me that the operators depend on the anonymity that the wall provides.

We need to learn more about what exactly the operators are doing at the West Pico wells and how it impacts us. Personally, I'm concerned that there have been rather a lot of cancers and benign tumors among friends who have lived within a 3 block radius of the site. Are they just naturally occurring, and the fact I know of so many cases is just because so many people live in this tight little neighborhood? Or is there something else going on? We don't know because there has been insufficient environmental impact review.

I want to see regulations enforced, a thorough independent environmental review conducted, and if the results are concerning, I'd like to see the well shut down and the site properly ameliorated. I'm very concerned that the planning commission didn't take these actions previously EVEN WHEN THE DOCUMENT THE CITY PROVIDED EXPOSED VIOLATIONS. Not only was I puzzled by the lack of logic in the decision, it makes me question whether those who are supposed to be looking after the wellbeing of residents have instead prioritized the interests of businesses from outside our community.

Thank you for your attention,
Rebecca Klempner

R. Klempner

writing, copyediting, and developmental editing

http://rebeccaklempner.com/

Rebecca's latest book, *Adina At Her Best*, came out
January 2019 from Menucha Publishers. Click here to learn more.

Planning APC West LA <apcwestla@lacity.org>

Case No. ZA-1989-17683-PA2-1A; Supporting NASE's Appeal

1 message

Scott Epstein <scott@scottforla.com> Sun, Aug 8, 2021 at 10:13 PM
To: apcwestla@lacity.org, dylan.sittig@lacity.org
Cc: salman@history.ucla.edu, rabbiyonah@gmail.com

Dear West Los Angeles Area Planning Commission Members:

I write in strong support of NASE's appeal of the 6/2/21 Zoning Administrator ruling. The ZA decision is nonsensical on a number of fronts, and sets a very dangerous precedent for our city. It must be overturned.

The ruling states that Pacific Coast Energy Company is in full compliance, despite the fact that the company underwent 25 different unpermitted projects at the site (as admitted by PCEC in their own 6/19/20 letter and as detailed in the Department of City Planning's staff report). The ruling grants a Categorical Exemption (CE) from environmental review, despite the fact that ZA Memorandum 133 expressly prohibits the granting of CEs for projects drilling, re-drilling, or conversion of oil wells.

In short, the ruling is shocking. Not only does it fail to require any actions in response to the unpermitted projects, but it rewards PCEC's illegal conduct with the type of exemption applied to benign projects like adding signage or building a bike path.

Oil drilling in close proximity to residences is exactly the kind of use from which CEQA was designed to protect the public. The 6/2/21 ruling refuses to provide any new protection for stakeholders in Pico-Robertson. It also encourages lawlessness by other well operators. As a candidate running to represent a district with one of the highest concentrations of oil wells in the city, I am deeply concerned about the precedent this ruling would set if it is allowed to stand. I ask that you protect Angelenos by overturning this decision.

Sincerely,
Scott Epstein
Candidate for LA City Council District 5

Planning APC West LA <apcwestla@lacity.org>

Case # ZA-1989-17683-PA2-1A, Supporting NASE's Appeal

1 message

Sam Glaser <samglaser@aol.com> Mon, Aug 2, 2021 at 9:57 PM
To: apcwestla@lacity.org

To the West Los Angeles Area Planning Commission,

I support NASE's appeal of the ZA's decision in the West Pico Drill Site case (ZA-1989-17683-PA2-1A) and urge you to overturn the ZA's decision.

Yours,

Sam Glaser

Sam Glaser
1941 Livonia Ave
LA, CA 90034
sam@samglaser.com

Planning APC West LA <apcwestla@lacity.org>

Oil well decision

1 message

Saran Kirschbaum <sarank@icloud.com> Tue, Jul 20, 2021 at 11:40 PM
To: apcwestla@lacity.org

To the West Los Angeles Area Planning Commission,

I support NASE's appeal of the ZA's decision in the West Pico Drill Site case (ZA-1989-17683-PA2-1A) and urge you to overturn the ZA's decision.

I live not far from the West Pico Drill site and am very concerned about the safety of any oil well on Pico. I know that oil is under many of the houses as well as businesses in the area.
This area also has earthquake faults and that alone is enough reason not to continue drilling in the area. Climate change should also overturn the decision because it is removing the use of oil in the near future.
Please overturn ZA's decision.
Thank you, Saran Kirschbaum
1710 Bagley Ave.

EST 1949
Beverlywood
HOMES ASSOCIATION

West Los Angeles Area Planning Commission
Department of City Planning
200 N Spring St
Los Angeles, CA 90012

Sent Via Email to: apcwestla@lacity.org

Re: ZA-1989-17683-PA2 & ENV-2020-1328-CE; West Pico Drill Site, 9101 & 9151 W. Pico Blvd, Los Angeles, CA, 90035

To the West Los Angeles Area Planning Commission,

The Beverlywood Homes Association represents 1,354 members and their families who reside South of the West Pico Drill Site.

Our Association engages in rigorous design reviews of residential projects in our neighborhood and our organization has participated in multiple land use cases of different kinds that have come before the Zoning Administrator for review. Many of our members have done the same in our professional and private capacities.

In the matter of the "Plan Approval" for the West Pico Drill Site (Case No. ZA-1989-17683-PA2 & ENV-2020-1328-CE), we urge the West Los Angeles Area Planning Commission to overturn both the error-filled June 2, 2021 Zoning Administrator determination and the inappropriate Categorical Exemption from environmental review on which the Zoning Administrator's faulty review was based.

From the perspective of our collective experience in land use cases as well as being neighbors of the West Pico Drill Site, we are shocked that the City allowed 24 major oil well projects to be executed without applications to the Zoning Administrator for legally required discretionary reviews and environmental clearance under CEQA, plus a 25th major project to install one megawatt of microturbine electric generators that are expressly prohibited by ZA conditions of use. This is unfathomable to the many of us who have wrestled with the rigors of Zoning Administrator reviews and CEQA reviews.

In light of these 25 illegal projects and numerous other documented violations of City Code and Conditions of Approval, it is beyond shocking that the Zoning Administrator could declare on page 1 of his determination issued on June 2, 2021 that: ***"I hereby DETERMINE, based on the whole of the administrative record, [t]hat the Conditions of Approval of Determination BZA No. 2000-1697 have been and are being substantially complied with."*** That is an error of law and facts, contradicted many times within the Zoning Administrator's own Letter of Determination.

We are startled to learn that this massive evasion of required reviews was enabled by the lack of City compliance inspections, from the same City that inspects home remodeling, billboards, and countless other less serious activities that require City approvals and permits. More than a few of our members are frightened to hear that a work culture of sloppiness involving violations of the City's Fire Code, State oil well safety laws, and SCAQMD air emissions laws has grown in the shadow of the City's inattention. We cannot understand how the City can approve initial land use entitlements for an activity as inherently risky and historically troubled as oil production, especially in a residential neighborhood, and then turn a completely blind eye to the most basic requirements of compliance and enforcement during the ongoing life of the land use. We cannot understand how the Zoning Administrator in the current case could order no corrective actions and write no new conditions to protect our health and safety, and at the same time declare that "inspections . . . will continue" when the City does not do even the most basic compliance inspections.

We hoped that the current ZA review would be the starting point to turn this situation around. But we are dismayed to learn that the opposite has happened.

The same oil drill site that was allowed to evade ZA reviews and environmental reviews for 25 major projects is now being exempted from environmental review and being given a pass on a shocking array of illegal projects and other violations.

The same oil drill site that was supposed to have Reviews of Conditions in 2010 and 2015 to "evaluate . . . the efficacy of mitigation measures" and change them as warranted has received a review that excluded consideration of the need for enhanced mitigation measures. There has been no CEQA process to consider the efficacy of mitigation, monitoring, and enforcement measures that have self-evidently failed. This violates both Condition 78 of the 2000 ZA approval and Section 4.b of the 2001 Settlement Agreement, as well as CEQA and every ZA approval since the drill site was first given land use entitlement in 1965. The statements of the presiding ZA at the two summer 2020 public hearings declaring that no mitigation measures will be changed short-circuited legally required review processes

The 25 unapproved projects, dozens of illegal and void City permits, and other problems documented by community members and reported to the Zoning Administrator were not addressed, but were buried in contradictory statements in the ZA's determination, alternately recognizing some of the violations but then determining on page 1 that there has been compliance. This allows illegal activity to stand in place without equity or protection for the community, and it sets in motion another violation of CEQA for segmenting a larger known project into smaller pieces that obscure the full environmental impact.

We implore you to send this case back for the proper environmental review under CEQA that it should have had from the outset: an initial study, followed by either a Mitigated Negative Declaration or an Environmental Impact Report. That is the necessary procedural and substantive first step toward holding a full and proper ZA review that addresses all the requirements of Condition 78 of the 2000 ZA approval, Section 4.b of the 2001 Settlement Agreement, and the documented evidence of 25 major unapproved projects and dozens of additional permitting and compliance problems.

Our homeowner's association understands the importance of following proper rules and regulations. We rely on the rigor of the City's Zoning Administrator, Engineering, and Building and Safety reviews to keep us all safe when our local residents undertake projects that could have an impact upon neighbors. We cannot accept that the same agencies would allow an oil drill site in our neighborhood to escape environmental reviews under CEQA and even facilitate it by granting an exemption, nor can we understand how 25 major projects at an oil drill site could be allowed to happen without a review and allowed to persist when reported to the Zoning Administrator.

The correct course of action is to begin this review again and to do it properly.

Sincerely,

Scott Krieger, President
On Behalf of the Board of Directors
Beverlywood Homes Association

Cc:

Theodore Irving, Associate Zoning Administrator
Dylan Sittig, Assistant to Associate Zoning Administrator Irving
Estineh Mailian, Chief Zoning Administrator
Edber Macedo, Assistant to Chief Zoning Administrator Mailian
Terry Kaufmann-Macias, Assistant City Attorney
Jennifer Tobkin, Deputy City Attorney
Paul Koretz, Council Member CD5
Joan Pelico, Chief of Staff CD5
Daniel Skolnick, Land Use Deputy CD5
Andy Shrader, Environmental Policy Director CD5
Professor Michael Salman
Rabbi Yonah Bookstein
Richard S. Weiner, Secretary NASE
Dr. Rae R. Drazin, President NASE
Charles Stein, President SORO NC

Planning APC West LA <apcwestla@lacity.org>

ZA-1989-17683-PA2-1A supporting NASE'sappeal

1 message

Sheindy Mordechai <sheindelbasesther@gmail.com> Mon, Jul 26, 2021 at 7:39 PM
To: apcwestla@lacity.org

To those elected officials who are responsible for the health and safety of residents near oil drilling sites in our neighborhoods,

How can it possibly be that these sites are not regulated as the law requires? This is really appalling and unacceptable. Please, please take care of this so that the children, women, and men; who live near these drill sites; will be protected from the health hazards they present or close them down.

Thanks so much,

Denise Mordecai, Ph.D.

My name is Richard S. Weiner and I am sending this email to the Area Planning Commission in support of the Appeal filed by Amy C. Minteer, Esq. on behalf of Neighbors For A Safe Environment (NASE).

My wife and I have lived in our home for more than 22 years, which is within 1500 feet of the West Pico Drill Site.

I am one of the founders and members of the Board of Director and Secretary of NASE, which is a California non-profit Public Benefit corporation. NASE was founded in 2000 to seek better and stronger protections for the community when BreitBurn Energy Company (BreitBurn) asked the Zoning Administrator to approve expanded operating rights on the Drill Site. Breitburn is the predecessor of the current Applicant, Pacific Coast Energy Company (PCEC).

The Drill Site is in the middle of a residentially zoned neighborhood. There are numerous schools and houses of worship within close proximity.

NASE filed suit in 2000-01 against BreitBurn and the City, and won a Writ of Mandate from the Los Angeles Superior Court ordering revisions to an Environmental Impact Report and reconsideration of the ZA's decision. That Writ caused BreitBurn and the City to seek a settlement with NASE, known in this current matter as the 2001 Settlement Agreement. Among the many provisions of the Settlement Agreement was a requirement for cyclical 5 Year Reviews of Conditions by the Zoning Administrator to examine compliance, "neighborhood impacts," and "the efficacy of mitigation measures" as per a procedure for a two-year post project check-up defined in Condition 78 of the 2000 ZA approval. The 5 Year Reviews of Conditions that were supposed to commence in 2010 and be held again in 2015 never happened. NASE prompted the initiation of the current review in November 2019 by notifying the Chief ZA and City Attorney that the 2001 Settlement Agreement had been violated. The ZA has failed in the current review to abide by the terms of the 2001 Settlement Agreement and Condition 78 of the 2000 ZA approval.

As pointed out in Ms.Minteer's Appeal on behalf of NASE, the Zoning Administrator has acknowledged that PCEC has violated numerous aspects of the Settlement Agreement, the 2000 ZA approval, and City code. As she also points out, there are also substantial CEQA violations. Yet, despite the imperative of Condition 78 of the 2000 ZA approval to assess environmental impacts and the "efficacy of mitigation measures," and despite the massive record of non-compliance and illegal projects, the ZA granted an improper Categorical Exemption from environmental review. This short circuited the ZA's entire review and helped to the produce the ZA's self-contradicted conclusion that the drill site is and has been in substantial compliance. As Ms. Minteer explains, the ZA's ruling is itself in violation of both City law and CEQA.

The ZA ruling has winked at illegal oil drilling projects executed without applications, reviews, and approvals required by City Code, and thereby dismisses City law in a way it is not authorized to do. This is illegal and poses a danger not just to the communities around the West Pico Drill Site but to the entire city.

The ZA decision should be reversed and the entire matter sent back to a fresh ZA with clear instructions to rehear the matter in compliance with the terms of the Settlement Agreement, Condition 78 of the 2000 ZA approval, City code, and CEQA.

I would be on the telephone voicing my support of the NASE Appeal at the hearing, but at the time of the hearing I will be flying to a Granddaughter's engagement party in New York.

Sincerely,

Richard S. Weiner

July 25, 2021

Michael Newhouse, President
Lisa Waltz Morocco, Vice President
Alexis Laing, Commissioner
Esther Margulies, Commissioner
Adele Yellin, Commissioner
West Los Angeles Area Planning Commission
Los Angeles City Hall
200 N. Spring Street
Los Angeles, CA 90012
apcwestla@lacity.org

Re: Case No. ZA-1989-17683-PA2-1A; Supporting NASE's Appeal

Dear Commissioners:

My name is Sam Yebri. I am a concerned resident, business owner, and father of four young children who attend school blocks near the oil and gas wells operating at 9101 and 9151 W. Pico Blvd., Los Angeles, CA 90035 (the "West Pico Drill Site"). I am also a former Los Angeles City Commissioner and candidate for Los Angeles City Council to represent the 5th District. I am writing to express my strong support for the appeal filed by Neighbors for A Safe Environment ("NASE") requesting that the West Los Angeles Area Planning Commission overturn the Zoning Administrator's ("ZA") decision regarding the West Pico Drill Site (Case No. ZA-1989-17683-PA2-1A).

The ZA's June 2, 2021 Letter of Determination (the "LOD") correctly noted that the operator of the West Pico Drill Site was in violation of several conditions imposed by the Board of Zoning Appeal, fire, life, and safety violations regulations of the Los Angeles Fire Department, and the terms of a Settlement Agreement that the City of Los Angeles entered into with NASE in 2001 (the "2001 Settlement Agreement"). Yet, despite these substantial and blatant violations, the LOD – without valid justification or meaningful explanation – concluded that the West Pico Drill Site was in "substantial compliance" with all city and state laws.

The LOD must be overturned. As set forth in detail in NASE's appeal, the LOD is filled with internal contradictions and legal and factual errors. Moreover, in effect, the LOD ruled that illegal oil well drilling near our homes, schools, and houses of worship may continue unabated, un-inspected, and without consequence. This ruling endangers neighboring residents and sets a dangerous precedent for similar health, safety, and environmental violations throughout the City of Los Angeles. As such, the unlawful and dangerous LOD must be overturned and this matter must be carefully reviewed *de novo* in compliance with California's CEQA laws and the terms of the 2001 Settlement Agreement.

Sincerely,

Sam Yebri