



air pollution control district
SANTA BARBARA COUNTY

DRAFT

PERMIT TO OPERATE 9035-R10

and

PART 70 RENEWAL OPERATING PERMIT 9035

**PACIFIC COAST ENERGY COMPANY LP
ORCUTT HILL AND CASMALIA OIL FIELDS STATIONARY SOURCE**

RICE RANCH LEASE

**ORCUTT HILL OILFIELD
SANTA BARBARA COUNTY, CALIFORNIA**

OPERATOR

Pacific Coast Energy Company LP

OWNERSHIP

Pacific Coast Energy Company

**Santa Barbara County
Air Pollution Control District**

**(District Permit to Operate)
(Part 70 Operating Permit)**

June 2024

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ABBREVIATIONS/ACRONYMS

AP-42	USEPA's <i>Compilation of Emission Factors</i>
District	Santa Barbara County Air Pollution Control District
API	American Petroleum Institute
ASTM	American Society for Testing Materials
BACT	Best Available Control Technology
bpd	barrels per day (1 barrel = 42 gallons)
CAM	compliance assurance monitoring
CEMS	continuous emissions monitoring
dscf	dry standard cubic foot
EU	emission unit
gal	gallon
gr	grain
HAP	hazardous air pollutant (as defined by CAAA, Section 112(b))
H ₂ S	hydrogen sulfide
I&M	inspection & maintenance
k	kilo (thousand)
l	liter
lb	pound
lbs/day	pounds per day
lbs/hr	pounds per hour
LACT	Lease Automatic Custody Transfer
LPG	liquid petroleum gas
M	thousand
MACT	Maximum Achievable Control Technology
MM	million
MW	molecular weight
NEI	net emissions increase
NG	natural gas
NSPS	New Source Performance Standards
O ₂	oxygen
OCS	outer continental shelf
PM	particulate matter
PM ₁₀	particulate matter less than 10 µm in size
PM _{2.5}	particulate matter less than 2.5 µm in size
ppm (vd or w)	parts per million (volume dry or weight)
psia	pounds per square inch absolute
psig	pounds per square inch gauge
PRD	pressure relief device
PTO	Permit to Operate
RACT	Reasonably Available Control Technology
ROC	reactive organic compounds, same as "VOC" as used in this permit
RVP	Reid vapor pressure
scf	standard cubic foot
scfd (or scfm)	standard cubic feet per day (or per minute)
SIP	State Implementation Plan
STP	standard temperature (60°F) and pressure (29.92 inches of mercury)
THC	Total hydrocarbons
tpy, TPY	tons per year
TVP	true vapor pressure
USEPA	United States Environmental Protection Agency
VE	visible emissions
VRS	vapor recovery system

1.0 Introduction

1.1 Purpose

General: The Santa Barbara County Air Pollution Control District (District) is responsible for implementing all applicable federal, state and local air pollution requirements which affect any stationary source of air pollution in Santa Barbara County. The federal requirements include regulations listed in the Code of Federal Regulations: 40 CFR Parts 50, 51, 52, 55, 61, 63, 68, 70 and 82. The State regulations may be found in the California Health & Safety Code, Division 26, Section 39000 et seq. The applicable local regulations can be found in the District's Rules and Regulations. This is a combined permitting action that covers both the Federal Part 70 permit (renewal of Part 70 Operating Permit 9035) as well as the State Operating Permit (reevaluation of Permit to Operate 9035).

Santa Barbara County is designated as a non-attainment area for the state ozone and PM₁₀ ambient air quality standard.

Part 70 Permitting: The initial Part 70 permit for this facility was issued on May 22, 1999 in accordance with the requirements of the District's Part 70 operating permit program. This permit is the seventh renewal of the Part 70 permit, and may include additional applicable requirements and associated compliance assurance conditions. The Rice Ranch Lease is a part of the Pacific Coast Energy Company - Orcutt Hill and Casmalia Oil Fields Stationary Source is a major source for VOC¹, NO_x and CO. Conditions listed in this permit are based on federal, state or local rules and requirements. Sections 9.A, 9.B and 9.C of this permit are enforceable by the District, the USEPA and the public since these sections are federally-enforceable under Part 70. Where any reference contained in Sections 9.A, 9.B or 9.C refers to any other part of this permit, that part of the permit referred to is federally-enforceable. Conditions listed in Section 9.D are "District-only" enforceable.

Pursuant to the stated aims of Title V of the CAAA of 1990 (i.e., the Part 70 operating permit program), this Part 70 permit renewal has been designed to meet two objectives. First, compliance with all conditions in this permit would ensure compliance with all federally-enforceable requirements for the facility. Second, the permit would be a comprehensive document to be used as a reference by the permittee, the regulatory agencies and the public to assess compliance.

This reevaluation incorporates greenhouse gas emission calculations for the stationary source. On January 20, 2011, the District revised Rule 1301 to include greenhouse gases (GHGs) that are "subject to regulation" in the definition of "Regulated Air Pollutants". District Part 70 operating permits incorporate the revised definition.

1.2 Facility Overview

1.2.1 General Overview: The Rice Ranch Lease, located approximately 2.5 miles south of the city of Orcutt, was previously owned and operated for many years by Unocal. Several transfers of ownership/operator have since taken place and are listed below. The most recent change was a

¹ VOC as defined in Regulation XIII has the same meaning as reactive organic compounds as defined in Rule 102. The term ROC shall be used throughout the remainder of this document, but where used in the context of the Part 70 regulation, the reader shall interpret the term as VOC.

name change only from Breitburn Energy to Pacific Coast Energy Company (PCEC) that occurred in December 2011.

Date of Transfer	New Owner	New Operator
April 9, 1996	Nuevo Energy Company	Torch Operating Company
February 27, 2001	Nuevo Energy Company	Nuevo Energy Company
September 30, 2003	ERG Operating Company	ERG Operating Company
November 5, 2004	BreitBurn Energy	BreitBurn Energy
December 2011	Pacific Coast Energy	Pacific Coast Energy

For District regulatory purposes, the facility is located in the Northern Zone of Santa Barbara County². Figure 1.1 shows the relative location of the facility within the county.

² District Rule 102, Definition: "Northern Zone"

**PACIFIC COAST ENERGY- ORCUTT HILL and CASMALIA OIL FIELDS
STATIONARY SOURCE**

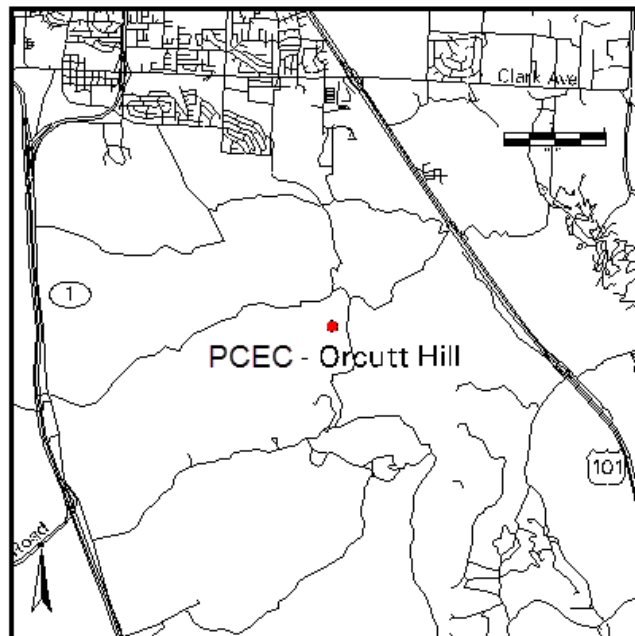
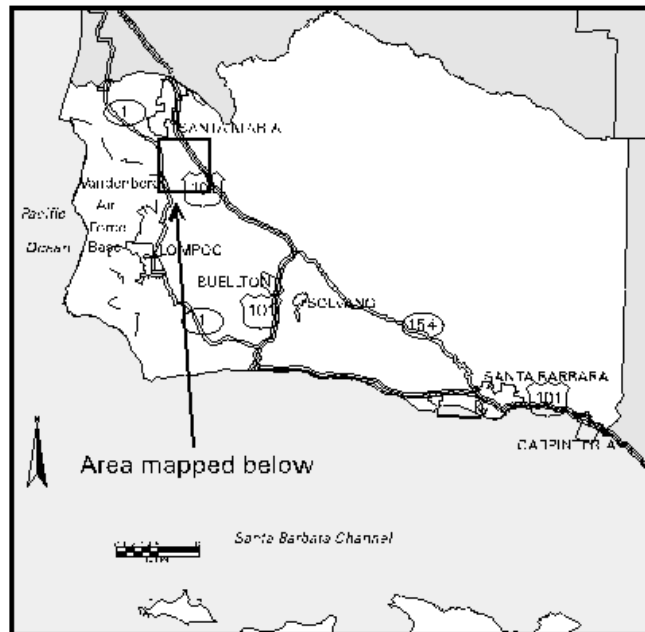


Figure 1.1 Location Map for the Rice Ranch Lease

The *Pacific Coast Energy Company - Orcutt Hill and Casmalia Oil Fields Stationary Source* (SSID 2667), which was originally developed in the 1920s by Union Oil Company, consists of the facilities listed below. The Careaga, N.R. Bonetti, Escolle, Escolle (Amrich), Arellanes, Morganti, Casmalia ICEs, Musico and Righetti Leases were purchased by PCEC in February 2024 and thereby became incorporated into the original PCEC Orcutt Hill Stationary Source which was renamed the Pacific Coast Energy Company - Orcutt Hill and Casmalia Oil Fields Stationary Source.

- California Coast Lease (FID 3206)
- Fox Lease (FID 3313)
- Dome Lease (FID 3314)
- Folsom Lease (FID 3316)
- Graciosa Lease (FID 3318)
- Hartnell Lease (FID 3319)
- Hobbs Lease (FID 3320)
- Newlove Lease (FID 3321)
- Pinal Lease (FID 3322)
- Rice Ranch Lease (FID 3323)
- Squires Lease (FID 3324)
- Getty-Hobbs Lease (FID 3495)
- Orcutt Hill Compressor Plant (FID 4104)
- Orcutt Hill Internal Combustion Engines (FID 4214)
- Orcutt Hill Steam Generators (FID 10482)
- Orcutt Hill Field (MVFF) (FID 1904)
- Careaga Lease (FID 1517)
- Casmalia ICEs (FID 4216)
- N.R. Bonetti Lease (FID 4501)
- Escolle Lease (Amrich) (FID 11593)
- Escolle Lease (FID 3315)
- Arellanes Lease (FID 3212)
- Morganti Lease (FID 3303)
- Musico Lease (FID 3304)
- Righetti Lease (FID 3948)

The Rice Ranch Lease consists of the following oil and gas production systems:

- One oil & gas well
- Gas gathering system

Oil, water and gas are produced from one well on the Rice Ranch Lease. An electric motor or an internal combustion engine (permitted under PTO 8039) powers the well pump. The produced well liquids are delivered by the well flow line to the Pinal Lease Tank Battery for further processing. Well casing gas gathered by the gas gathering system is sent to the Orcutt Hill Compressor Plant.

1.2.2 Facility New Source Review Overview: The equipment on the Rice Ranch Lease was in place and operating before a permit to operate was required. Therefore, the equipment was not subject to New Source Review requirements and was issued a Permit to Operate without an Authority to

Construct. There have been no modifications at this facility subject to NSR since issuance of the initial Part 70 permit.

1.3 Emission Sources

The emission sources at the Rice Ranch Lease are listed below. Section 4 of the permit provides the District's engineering analysis of these emission sources. Section 5 of the permit describes the allowable emissions from each permitted emissions unit and also lists the potential emissions from non-permitted emission units.

The emission sources include:

- One (1) oil and gas well
- Fugitive emission components in gas/liquid hydrocarbon service

A list of all permitted equipment is provided in Section 10.5.

1.4 Emission Control Overview

Air quality emission controls are utilized at the Rice Ranch Lease. The emission controls employed at the facility include:

- A Fugitive Hydrocarbon Inspection & Maintenance program for detecting and repairing leaks of hydrocarbons from piping components, i.e., valves, flanges and seals, consistent with the requirements of the District Rule 331 to reduce ROC emissions by approximately 80-percent.

1.5 Offsets/Emission Reduction Credit Overview

The Pacific Coast Energy Company - Orcutt Hill and Casmalia Oil Fields Stationary Source triggers offsets for NOx and ROC emissions. See section 7.3 for details.

1.6 Part 70 Operating Permit Overview

1.6.1 Federally-Enforceable Requirements: All federally-enforceable requirements are listed in 40 CFR Part 70.2 (*Definitions*) under “applicable requirements”. These include all SIP-approved District Rules, all conditions in the District-issued Authority to Construct permits, and all conditions applicable to major sources under federally promulgated rules and regulations. All these requirements are enforceable by the public under CAAA. (*see Tables 3.1 and 3.2 for a list of federally-enforceable requirements*)

1.6.2 Insignificant Emissions Units: Insignificant emission units are defined under District Rule 1301 as any regulated air pollutant emitted from the unit, excluding HAPs, that are less than 2 tons per year based on the unit’s potential to emit and any HAP regulated under section 112(g) of the Clean Air Act that does not exceed 0.5 ton per year based on the unit’s potential to emit. Insignificant activities must be listed in the Part 70 application with supporting calculations. Applicable requirements may apply to insignificant units.

1.6.3 Federal Potential to Emit: The federal potential to emit (PTE) of a stationary source does not include fugitive emissions of any pollutant, unless the source is: (1) subject to a federal NSPS/NESHAP requirement which was in effect as of August 7, 1980, or (2) included in the 29-category source list specified in 40 CFR 70.2. The federal PTE does include all emissions from any insignificant emissions units. There is no equipment at this facility is subject to a federal

NSPS/NESHAP requirement, nor is it included in the 29-category list, therefore the federal PTE does not include fugitive emissions. (See Section 5.4 for the federal PTE for this source)

- 1.6.4 Permit Shield: The operator of a major source may be granted a shield: (a) specifically stipulating any federally-enforceable conditions that are no longer applicable to the source and (b) stating the reasons for such non-applicability. The permit shield must be based on a request from the source and its detailed review by the District. Permit shields cannot be indiscriminately granted with respect to all federal requirements. The permittee has not made a request for a permit shield.
- 1.6.5 Alternate Operating Scenarios: A major source may be permitted to operate under different operating scenarios, if appropriate descriptions of such scenarios are included in its Part 70 permit application and if such operations are allowed under federally-enforceable rules. The permittee made no request for permitted alternative operating scenarios.
- 1.6.6 Compliance Certification: Part 70 permit holders must certify compliance with all applicable federally-enforceable requirements including permit conditions. Such certification must accompany each Part 70 permit application; and, be re-submitted annually on the anniversary date of the permit or on a more frequent schedule specified in the permit. A “responsible official” of the owner/operator company whose name and address is listed prominently in the Part 70 permit signs each certification. (see Section 1.6.9 below)
- 1.6.7 Permit Reopening: Part 70 permits are re-opened and revised if the source becomes subject to a new rule or new permit conditions are necessary to ensure compliance with existing rules. The permits are also re-opened if they contain a material mistake or the emission limitations or other conditions are based on inaccurate permit application data.
- 1.6.8 Hazardous Air Pollutants (HAPs): Part 70 permits regulate emission of HAPs from major sources through the imposition of maximum achievable control technology (MACT), where applicable. The federal PTE for HAP emissions from a source is computed to determine MACT or any other rule applicability.
- 1.6.9 Responsible Official: The designated responsible official and his mailing address is:

Phil Brown
Vice President of Operations
Pacific Coast Energy Company
555 Orcutt Hill Rd.
Orcutt Hill, CA 93455

2.0 Process Description

2.1 Process Summary

2.1.1 Production: Oil, water, and gas are produced from one well on the Rice Ranch Lease. The well is not equipped with a cellar. Historically, the API gravity of the crude oil is 25° with a gas oil ratio of 501 scf/bbl. An electric motor or an internal combustion engine, permitted on PTO 8039, provides power to the pumping unit.

2.1.2 Gas/Liquid Separation: Well fluids are routed to the Pinal Lease tank battery directly from the wellhead via the well flowline. No gas/liquid separation occurs at the Rice Ranch lease.

2.2 Support Systems

There are no additional support systems on the Rice Ranch Lease.

2.3 Maintenance/Degreasing Activities

2.3.1 Paints and Coatings: Intermittent surface coating operations are conducted throughout the facility for occasional structural and equipment maintenance needs, including architectural coating. Normally only touch-up and equipment labeling or tagging is performed. All architectural coatings used are in compliance with District Rule 323.I, as verified through the rule-required recordkeeping.

2.3.2 Solvent Usage: Solvents not used for surface coating thinning may be used on the Rice Ranch Lease for daily operations. Usage includes cold solvent degreasing and wipe cleaning with rags.

2.4 Planned Process Turnarounds

Maintenance of critical components is carried out according to the requirements of Rule 331 (*Fugitive Emissions Inspection and Maintenance*) during turnarounds. The permittee has not listed any emissions from planned process turnarounds that should be permitted.

2.5 Other Processes

2.5.1 Pits and Sumps: There are no well cellars, pits or sumps on the Rice Ranch Lease.

2.5.2 Unplanned Activities/Emissions: The permittee does not anticipate or foresee any circumstances that would require special equipment use and result in excess emissions.


2.6 Detailed Process Equipment Listing

Refer to Attachment 10.5 for a complete listing of all permitted equipment.

3.0 Regulatory Review

This Section identifies the federal, state and local rules and regulations applicable to the Rice Ranch Lease.

3.1 Rule Exemptions Claimed

 District Rule 202 (Exemptions to Rule 201): The following exemptions apply to this facility. An exemption from permit, however, does not necessarily grant relief from any applicable prohibitory rule.

- **Section D.6 De Minimis Exemptions:** This section requires Pacific Coast Energy to maintain a record of each de minimis change, which shall include emission calculations demonstrating that each physical change meets the criteria listed in the Rule. This exemption applies to a project in the broadest sense. Such records shall be made available to the District upon request. As of June 2020, the de minimis total at the Pacific Coast Energy Company - Orcutt Hill and Casmalia Oil Fields Stationary Source is: 20.94 lbs ROC/day. This total does not include the previously claimed emissions from the Sx Sands project (ATC 13140).
- **Section D.8 Routine Repair and Maintenance:** A permit shall not be required for routine repair or maintenance of permitted equipment, not involving structural changes.
- **Section D.14 Architectural Coatings:** Application of architectural coating in the repair and maintenance of a stationary structure is exempt from permit requirements.
- **Section U.2 Degreasing Equipment:** Single pieces of degreasing equipment, which use unheated solvent, and which: a) have a liquid surface area of less than 1.0 square foot unless the aggregate liquid surface area of all degreasers at a stationary source, covered by this exemption is greater than 10 square feet; and b) use only organic solvents with an initial boiling point of 302° F or greater; or c) use materials with a volatile organic compound content of two-percent or less by weight as determined by EPA Method 24.
- **Section U.3 Wipe Cleaning:** Equipment used in wipe cleaning operations provided that the solvents used do not exceed 55 gallons per year. The permittee shall maintain records of the amount of solvents used for each calendar year. These records shall be kept for a minimum of 3 years and be made available to the District on request.

In addition, the following two Rule 202 permit exemptions may apply:

- **Section F.1.c Internal Combustion Engines:** Engines used to propel vehicles, as defined in Section 670 of the California Vehicle Code, but not including any engine mounted on such vehicles that would otherwise require a permit under the provisions of District Rules and Regulations.
- **Section F.2 Portable Internal Combustion Engines:** Portable ICEs eligible for statewide registration pursuant to Title 13, Section 2450 *et seq.*, and not integral to the stationary source operations.

The following Rule exemptions have been approved by the District:



District Rule 321 (Solvent Cleaning Operations): Section D.4 exempts solvent wipe cleaning operations from the requirements of this rule.



District Rule 331 (Fugitive Emission Inspection and Maintenance): The following exemptions were applied for in the permittee's Inspection and Maintenance Plan and approved by the District:

- Section B.2.b for components buried below the ground
- Section B.2.c for stainless steel tube fittings

3.2 Compliance with Applicable Federal Rules and Regulations

- 3.2.1 40 CFR Parts 51/52 {New Source Review (Nonattainment Area Review and Prevention of Significant Deterioration)}: The Rice Ranch Lease was constructed and permitted prior to the applicability of these regulations. All modifications are subject to the District's New Source Review regulation. Compliance with the regulation assures compliance with 40 CFR 51/52.
- 3.2.2 40 CFR Part 60 {New Source Performance Standards}: This facility is not currently subject to the provisions of this Subpart.
- 3.2.3 40 CFR Part 61 {NESHAP}: This facility is not currently subject to the provisions of this Subpart.
- 3.2.4 40 CFR Part 63 {MACT}: On June 17, 1999, EPA promulgated Subpart HH, National Emission Standards for Hazardous Air Pollutants (NESHAPS) for Oil and Natural Gas Production and Natural Gas Transmission and Storage. The Rice Ranch Lease currently is not subject to the provisions of this Subpart. Information was submitted on October 26, 2000 indicating the Rice Ranch Lease is exempt from the requirements of MACT based on the throughput exemption per section 63.760(e)(2) of the subpart. The throughput at this facility is less than 18,400 standard cubic meters of gas per day and 39,700 liters of oil per day. On February 27, 2002 the District issued a letter agreeing with this exemption.
- 3.2.5 40 CFR Part 64 {Compliance Assurance Monitoring}: This rule became effective on April 22, 1998. This rule affects emission units at the source subject to a federally-enforceable emission limit or standard that uses a control device to comply with the emission standard, and either pre-control or post-control emissions exceed the Part 70 source emission thresholds. Compliance with this rule was evaluated and it was determined that no emission units at this facility are currently subject to CAM. All emission units at this facility have a pre-control emission potential less than 100 tons/year.
- 3.2.6 40 CFR Part 70 {Operating Permits}: This Subpart is applicable to the Rice Ranch Lease. Table 3.1 lists the federally-enforceable District promulgated rules that are "generic" and apply to the Rice Ranch Lease. Table 3.2 lists the federally-enforceable District promulgated rules that are "unit-specific" that apply to the Rice Ranch Lease. These tables are based on data available from the District's administrative files and from the permittee's Part 70 Operating Permit renewal application. Table 3.4 includes the adoption dates of these rules.

In its Part 70 permit application, the permittee certified compliance with all existing District rules and permit conditions. This certification is also required of the permittee semi-annually.

3.3 Compliance with Applicable State Rules and Regulations

- 3.3.1 Division 26. Air Resources {California Health & Safety Code}: The administrative provisions of the Health & Safety Code apply to this facility and will be enforced by the District. These provisions are District-enforceable only.
- 3.3.2 California Administrative Code Title 17: These sections specify the standards by which abrasive blasting activities are governed throughout the State. All abrasive blasting activities at the Rice Ranch Lease are required to conform to these standards. Compliance will be assessed through onsite inspections. These standards are District-enforceable only. However, CAC Title 17 does not preempt enforcement of any SIP-approved rule that may be applicable to abrasive blasting activities.

- 3.3.3 Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities (CCR Title 17, Section 95665 et. Seq.): On October 1, 2017, the California Air Resources Board (CARB) finalized this regulation, which establishes greenhouse gas emission standards for onshore and offshore crude oil and natural gas production facilities. On June 22, 2023, the CARB Board adopted amendments to the regulation, which will go into effect on April 1, 2024. This facility is subject to the provisions of this regulation. This facility is exempt from the leak detection and repair (LDAR) requirements of the CARB regulation per Section 95669(b)(1), which exempts components, including components found on tanks, separators, wells and pressure vessels, that are subject to District Rule 331 LDAR requirements prior to January 1, 2018. This facility does not utilize circulation tanks for well stimulation treatments, centrifugal natural gas compressors, reciprocating natural gas compressors, natural gas powered pneumatic devices or pumps, natural gas only wells, or well casing vents, and is therefore not subject to the CARB regulation standards and requirements for these equipment and processes.

3.4 Compliance with Applicable Local Rules and Regulations

- 3.4.1 Applicability Tables: Tables 3.1 and 3.2 list the federally enforceable District rules that apply to the facility. Table 3.3 lists the non-federally-enforceable District rules that apply to the facility. Table 3.4 lists the adoption date of all rules that apply to the facility.
- 3.4.2 Rules Requiring Further Discussion: This section provides a more detailed discussion regarding the applicability and compliance of certain rules. The following is a rule-by-rule evaluation of compliance for this facility:

Rule 201 - Permits Required: This rule applies to any person who builds, erects, alters, replaces, operates or uses any article, machine, equipment, or other contrivance that may cause the issuance of air contaminants. The equipment included in this permit is listed in Attachment 10.5. An Authority to Construct is required to return any de-permitted equipment to service and may be subject to New Source Review.

Rule 210 - Fees: Pursuant to Rule 201.G, District permits are reevaluated every three years. This includes the re-issuance of the underlying permit to operate. Also included are the PTO fees. The fees for this facility are based on District Rule 210, Fee Schedule A; however Part 70 specific costs are based on cost reimbursement provisions (Rule 210.C). Attachment 10.3 presents the fee calculations for the reevaluated permit.

Rule 301 - Circumvention: This rule prohibits the concealment of any activity that would otherwise constitute a violation of Division 26 (Air Resources) of the California H&SC and District rules and regulations. To the best of the District's knowledge, the permittee is operating in compliance with this rule.

Rule 302 - Visible Emissions: This rule prohibits the discharge from any single source any air contaminants for which a period or periods aggregating more than three minutes in any one hour which is as dark or darker in shade than a reading of 1 on the Ringelmann Chart or of such opacity to obscure an observer's view to a degree equal to or greater than a reading of 1 on the Ringelmann Chart. Sources subject to this rule include all internal combustion engines at the facility. Improperly maintained diesel engines have the potential to violate this rule. Compliance will be assured by requiring all engines to be maintained according to manufacturer maintenance schedules and by requiring visible emissions inspections of the diesel engines.

Rule 303 (Nuisance): Rule 303 prohibits any source from discharging such quantities of air contaminants or other material in violation of Section 41700 of the Health and Safety Code which cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public or which endanger the comfort, repose, health or safety or any such persons or the public or which cause or have a natural tendency to cause injury or damage to business or property. Compliance with this rule is assessed through the District's enforcement staff's complaint response program. Based on the source's location, the potential for public nuisance is small.

Rule 304 (Particulate Matter - Northern Zone): A person shall not discharge into the atmosphere from any source particulate matter in excess of 0.3 grain per cubic foot of gas at standard conditions.

Rule 309 - Specific Contaminants: Under Section "A", no source may discharge sulfur compounds and combustion contaminants (particulate matter) in excess of 0.2 percent as SO₂ (by volume) and 0.3 gr/scf (at 12% CO₂) respectively.

Rule 310 - Odorous Organic Compounds: This rule prohibits the discharge of H₂S and organic sulfides that result in a ground level impact beyond the property boundary in excess of either 0.06 ppmv averaged over 3 minutes and 0.03 ppmv averaged over 1 hour. No measured data exists to confirm compliance with this rule.

Rule 311 - Sulfur Content of Fuels: This rule limits the sulfur content of fuels combusted on the Rice Ranch Lease to 0.5 percent (by weight) for liquids fuels and 50 gr/100 scf (calculated as H₂S) {or 796 ppmvd} for gaseous fuels. All piston IC engines on the lease are expected to comply with the fuel limit as determined by required fuel analysis documentation.

Rule 317 - Organic Solvents: This rule sets specific prohibitions against the discharge of emissions of both photochemically and non-photochemically reactive organic solvents (40 lb/day and 3,000 lb/day respectively). Solvents may be used on the lease during normal operations for degreasing by wipe cleaning and for use in paints and coatings in maintenance operations. There is the potential to exceed the limits under Section B.2 during significant surface coating activities. The permittee is required to maintain records to ensure compliance with this rule.

Rule 321 Solvent Cleaning Operations: This rule was revised on September 20, 2010 to fulfill the commitment in the 2001 and 2004 Clean Air Plans to implement requirements for solvent cleaning machines and solvent cleaning. The revised rule contains solvent reactive organic compounds (ROCs) content limits, revised requirements for solvent cleaning machines, and sanctioned solvent cleaning devices and methods. These proposed provisions apply to solvent cleaning machines and wipe cleaning.

Rule 322 - Metal Surface Coating Thinner and Reducer: This rule prohibits the use of photochemically reactive solvents for use as thinners or reducers in metal surface coatings. The permittee will be required to maintain records during maintenance operations to ensure compliance with this rule.

Rule 323.1 - Architectural Coatings: This rule sets the standards for any architectural coating that is supplied, sold, offered for sale, or manufactured for use within the District.

Rule 324 - Disposal and Evaporation of Solvents: This rule prohibits any source from disposing more than one and a half gallons of any photochemically reactive solvent per day by means that

will allow the evaporation of the solvent into the atmosphere. The permittee will be required to maintain records to ensure compliance with this rule.

Rule 325 - Crude Oil Production and Separation: This rule applies to equipment used in the production, gathering, storage, processing and separation of crude oil and gas prior to custody transfer. The primary requirements of this rule are under Sections D and E. Section D requires the use of vapor recovery systems on all tanks and vessels, including wastewater tanks, oil/water separators and sumps. Section E requires that all produced gas be controlled at all times, except for wells undergoing routine maintenance. The gas separated from the produced fluids is collected and sent to the Orcutt Compressor Plant. Compliance with Section E is met by directing all produced gas to a sales compressor, injection well or to a flare relief system.

Rule 330 - Surface Coating of Metal Parts and Products: This rule sets standards for many types of coatings applied to metal parts and products. In addition to the ROC standards, this rule sets operating standards for application of the coatings, labeling and recordkeeping. Compliance with this rule will be demonstrated through inspections and recordkeeping.

Rule 331 - Fugitive Emissions Inspection and Maintenance: This rule applies to components in liquid and gaseous hydrocarbon service at oil and gas production fields. Ongoing compliance with the provisions of this rule will be assessed via inspection by District personnel using an organic vapor analyzer and through analysis of operator records. The Rice Ranch Lease does not perform any routine venting of hydrocarbons to the atmosphere. All gases routinely vented are directed to the gas gathering system.

Rule 352 - Natural Gas-Fired Fan-Type Central Furnaces and Small Water Heaters: This rule applies to new water heaters rated less than 75,000 Btu/hr and new fan-type central furnaces. It requires the certification of newly installed units.

Rule 353 - Adhesives and Sealants: This rule applies to the use of adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers, or any other primers. Compliance shall be based on site inspections.

Rule 505 - Breakdown Conditions: This rule describes the procedures that the permittee must follow when a breakdown condition occurs to any emissions unit associated with the Rice Ranch Lease. A breakdown condition is defined as an unforeseeable failure or malfunction of (1) any air pollution control equipment or related operating equipment which causes a violation of an emission limitation or restriction prescribed in the District Rules and Regulations, or by State law, or (2) any in-stack continuous monitoring equipment, provided such failure or malfunction:

- a. Is not the result of neglect or disregard of any air pollution control law or rule or regulation;
- b. Is not the result of an intentional or negligent act or omission on the part of the owner or operator;
- c. Is not the result of improper maintenance;
- d. Does not constitute a nuisance as defined in Section 41700 of the Health and Safety Code;
- e. Is not a recurrent breakdown of the same equipment.

Rule 810 - Federal Prevention of Significant Deterioration: This rule incorporates the federal Prevention of Significant Deterioration rule requirements into the District’s rules and regulations. Future projects at the facility will be evaluated to determine whether they constitute a new major stationary source or a major modification.

3.5 Compliance History

This section contains a summary of the compliance history for this facility and was obtained from documentation contained in the District’s administrative file.

3.5.1 Facility Inspections: Since issuance of the previous permit renewal, one routine facility inspection was conducted at this facility on December 6, 2022. There were no reported compliance issues documented in the inspection report.

3.5.2 Violations: There is no documentation in the facility files of any enforcement actions issued to this facility.

3.5.2 Variances: The operator has not applied for any variances since the previous permit renewal.

Table 3.1 - Generic Federally-Enforceable District Rules

Generic Requirements	Affected Emission Units	Basis for Applicability
<u>RULE 101:</u> Compliance by Existing Installations	All emission units	Emission of pollutants
<u>RULE 102:</u> Definitions	All emission units	Emission of pollutants
<u>RULE 103:</u> Severability	All emission units	Emission of pollutants
<u>RULE 201:</u> Permits Required	All emission units	Emission of pollutants
<u>RULE 202:</u> Exemptions to Rule 201	Applicable emission units, as listed in form 1302-H of the Part 70 application.	Insignificant activities/emissions, per size/rating/function
<u>RULE 203:</u> Transfer	All emission units	Change of ownership
<u>RULE 204:</u> Applications	All emission units	Addition of new equipment of modification to existing equipment.
<u>RULE 205:</u> Standards for Granting Permits	All emission units	Emission of pollutants
<u>RULE 206:</u> Conditional Approval of Authority to Construct or Permit to Operate	All emission units	Applicability of relevant Rules
<u>RULE 207:</u> Denial of Applications	All emission units	Applicability of relevant Rules
<u>RULE 208:</u> Action on	All emission units. Not applicable to Part 70 permit	Addition of new equipment of modification to existing

Generic Requirements	Affected Emission Units	Basis for Applicability
Applications - Time Limits	applications.	equipment.
<u>RULE 212</u> : Emission Statements	All emission units	Administrative
<u>RULE 301</u> : Circumvention	All emission units	Any pollutant emission
<u>RULE 302</u> : Visible Emissions	All emission units	Particulate matter emissions
<u>RULE 303</u> : Nuisance	All emission units	Emissions that can injure, damage or offend.
<u>RULE 304</u> : Particulate matter – Northern Zone	Each PM Source	Emission of PM in effluent gas
<u>RULE 309</u> : Specific Contaminants	All emission units	Combustion contaminant emission
<u>RULE 311</u> : Sulfur Content of Fuel	All combustion units	Use of fuel containing sulfur
<u>RULE 317</u> : Organic Solvents	Emission units using solvents	Solvent used in process operations.
<u>RULE 321</u> : Solvent Cleaning Operations	Emission units using solvents	Solvent used in process operations.
<u>RULE 322</u> : Metal Surface Coating Thinner and Reducer	Emission units using solvents	Solvent used in process operations.
<u>RULE 323.I</u> : Architectural Coatings	Paints used in maintenance and surface coating activities	Application of architectural coatings.
<u>RULE 324</u> : Disposal and Evaporation of Solvents	Emission units using solvents	Solvent used in process operations.
<u>RULE 353</u> : Adhesives and Sealants	Emission units using adhesives and solvents.	Adhesives and sealants used in process operations.
<u>RULE 505.A, B1, D</u> : Breakdown Conditions	All emission units	Equipment failures where permit limits are exceeded.
<u>RULE 603</u> : Emergency Episode Plans	Stationary sources with PTE greater than 100 tpy	PCEC Orcutt Hill is a major source.
<u>RULE 901</u> : New Source Performance Standards (NSPS)	All emission units	Applicability standards are specified in each NSPS.

Generic Requirements	Affected Emission Units	Basis for Applicability
<u>RULE 1001</u> : National Emission Standards for Hazardous Air Pollutants (NESHAPS)	All emission units	Applicability standards are specified in each NESHAPS.
<u>REGULATION VIII</u> : New Source Review	All emission units	Addition of new equipment of modification to existing equipment. Applications to generate ERC Certificates.
<u>REGULATION XIII (RULES 1301-1305)</u> : Part 70 Operating Permits	All emission units	PCEC Orcutt Hill is a major source.

Table 3.2 - Unit-Specific Federally-Enforceable District Rules

Unit-Specific Requirements	Affected Emission Units	Basis for Applicability
<u>RULE 331</u> : Fugitive Emissions Inspection & Maintenance	All components (valves, flanges, seals, etc.)	Components emit fugitive ROCs.
<u>RULE 344</u> : Petroleum Pits, Sumps and Cellars	None.	Well cellars emit fugitive ROCs.
<u>RULE 360</u> : Boilers, Water Heaters, and Process Heaters (0.075 - 2 MMBtu/hr)	Any new small boiler installed at the facility.	New units rated from 75,000 Btu/hr to 2,000 MMBtu/hr

Table 3.3 - Non-Federally-Enforceable District Rules

Requirement	Affected Emission Units	Basis for Applicability
<u>RULE 210</u> : Fees	All emission units	Administrative
<u>RULE 310</u> : Odorous Org. Sulfides	All emission units	Emission of organic sulfides
<u>RULE 352</u> : Natural Gas-Fired Fan-Type Central Furnaces and Small Water Heaters	New water heaters and furnaces	Upon installation
<u>RULES 501-504</u> : Variance Rules	All emission units	Administrative
<u>RULE 505.B2, B3, C, E, F, G</u> : Breakdown Conditions	All emission units	Breakdowns where permit limits are exceeded or rule requirements are not complied with.
<u>RULES 506-519</u> : Variance Rules	All emission units	Administrative

Table 3.4 - Adoption Dates of District Rules Applicable at Issuance of Permit

Rule No.	Rule Name	Adoption Date
Rule 101	Compliance by Existing Installations: Conflicts	June 21, 2012
Rule 102	Definitions	August 25, 2016
Rule 103	Severability	October 23, 1978
Rule 201	Permits Required	June 21, 2012
Rule 202	Exemptions to Rule 201	August 25, 2016
Rule 203	Transfer	April 17, 1997

Rule No.	Rule Name	Adoption Date
Rule 204	Applications	April 17, 1997
Rule 205	Standards for Granting Permits	April 17, 1997
Rule 206	Conditional Approval of Authority to Construct or Permit to Operate	October 15, 1991
Rule 208	Action on Applications - Time Limits	April 17, 1997
Rule 212	Emission Statements	October 20, 1992
Rule 301	Circumvention	October 23, 1978
Rule 302	Visible Emissions	June 1981
Rule 303	Nuisance	June 1981
Rule 304	Particulate Matter – Northern Zone	October 23, 1978
Rule 309	Specific Contaminants	October 23, 1978
Rule 310	Odorous Organic Sulfides	October 23, 1978
Rule 311	Sulfur Content of Fuels	October 23, 1978
Rule 317	Organic Solvents	October 23, 1978
Rule 321	Solvent Cleaning Operations	June 12, 2012
Rule 322	Metal Surface Coating Thinner and Reducer	October 23, 1978
Rule 323.I	Architectural Coatings	June 19, 2014
Rule 324	Disposal and Evaporation of Solvents	October 23, 1978
Rule 325	Crude Oil Production and Separation	July 19, 2001
Rule 326	Storage of Reactive Organic Compound Liquids	January 18, 2001
Rule 328	Continuous Emissions Monitoring	October 1978
Rule 330	Surface Coating of Metal Parts and Products	June 12, 2012
Rule 331	Fugitive Emissions Inspection and Maintenance	December 10, 1991
Rule 333	Control of Emissions from Reciprocating Internal Combustion Engines	June 19, 2008
Rule 342	Control of Oxides of Nitrogen (NOx) from Boilers, Steam Generators and Process Heaters	June 20, 2019
Rule 352	Natural Gas-Fired Fan-Type Central Furnaces and Small Water Heaters	October 20, 2011
Rule 353	Adhesives and Sealants	June 21, 2012

Rule No.	Rule Name	Adoption Date
Rule 360	Boilers, Water Heaters, and Process Heaters (0.075 - 2 MMBtu/hr)	March 15, 2018
Rule 361	Small Boilers, Steam Generators and Process Heaters	June 20, 2019
Rule 505	Breakdown Conditions (Section A, B1 and D)	October 23, 1978
Rule 603	Emergency Episode Plans	June 15, 1981
Rule 801	New Source Review	August 25, 2016
Rule 802	Nonattainment Review	August 25, 2016
Rule 803	Prevention of Significant Deterioration	August 25, 2016
Rule 804	Emission Offsets	August 25, 2016
Rule 805	Air Quality Impact and Modeling	August 25, 2016
Rule 806	Emission Reduction Credits	August 25, 2016
Rule 808	New Source Review for Major Sources of Hazardous Air Pollutants	May 20, 1999
Rule 810	Federal Prevention of Significant Deterioration (PSD)	June 20, 2013
Rule 901	New Source Performance Standards (NSPS)	September 20, 2010
Rule 1001	National Emission Standards for Hazardous Air Pollutants (NESHAPS)	October 23, 1993
Rule 1301	General Information	August 25, 2016
Rule 1302	Permit Application	November 9, 1993
Rule 1303	Permits	November 9, 1993
Rule 1304	Issuance, Renewal, Modification and Reopening	November 9, 1993
Rule 1305	Enforcement	November 9, 1993

4.0 Engineering Analysis

4.1 General

The engineering analyses performed for this permit were limited to the review of:

- facility process flow diagrams
- emission factors and calculation methods for each emissions unit
- emission control equipment (including RACT, BACT, NSPS, NESHAP, MACT)
- emission source testing, sampling, CEMS, CAM
- process monitors needed to ensure compliance

Unless noted otherwise, default ROC/THC reactivity profiles from the District's document titled "VOC/ROC Emission Factors and Reactivities for Common Source Types" dated July 13, 1998 (ver 1.1) was used to determine non-methane, non-ethane fraction of THC.

4.2 Stationary Combustion Sources

There are no process heaters, boilers or steam generators on the Rice Ranch Lease. Any internal combustion engines on the Rice Ranch Lease are included in PTO 8039.

4.3 Fugitive Hydrocarbon Sources

Emissions of reactive organic compounds from piping components (e.g., valves and connections), pumps, compressors and pressure relief devices have been quantified using emission factors pursuant to District P&P 6100.060.1996 (*Determination of Fugitive Hydrocarbon Emissions at Oil and Gas Facilities by the CARB/KVB Method - Modified for Revised ROC Definition*).

An emission control efficiency of 80-percent is credited to all components due to the implementation of a District-approved I&M program for leak detection and repair consistent with Rule 331 requirements. Ongoing compliance is determined in the field by inspection with an organic vapor analyzer and verification of operator records. Permitted fugitive ROC emissions from fugitive components reflect the elimination of ethane from the list of ROCs.

4.4 Tanks/Vessels/Sumps/Separators

4.4.1 Gas/Liquid Separation: There no tanks or separators at this facility.

4.4.2 Pits, Sumps and Well Cellars: There are no pits, sumps or well cellars at this facility.

4.5 Other Emission Sources

4.5.1 General Solvent Cleaning/Degreasing: Solvent usage (not used as thinners for surface coating) may occur at the facility as part of normal daily operations. The usage includes cold solvent degreasing. Mass balance emission calculations are used assuming all the solvent used evaporates to the atmosphere.

4.5.2 Surface Coating: Surface coating operations typically include normal touch up activities. Entire facility painting programs may also be performed. Emissions are determined based on mass balance calculations assuming all solvents evaporate into the atmosphere. Emissions of PM/PM₁₀/PM_{2.5} from paint overspray are not calculated due to the lack of established calculation techniques.

- 4.5.3 **Abrasive Blasting:** Abrasive blasting with CARB certified sands may be performed as a preparation step prior to surface coating. The engines used to power the compressor may be electric or diesel-fired. If diesel-fired, permits will be required unless the engine is registered with CARB. Particulate matter is emitted during this process. A general emission factor of 0.01 pound PM per pound of abrasive is used (SCAQMD - Permit Processing Manual, 1989) to estimate emissions of PM/PM₁₀/PM_{2.5} when needed for compliance verifications. A PM/PM₁₀/PM_{2.5} ratio of 1.0 is assumed.

4.6 Gas Gathering System

The gas gathering system collects gas from the well casing. The compressors for this system are located at the Orcutt Hill Compressor Plant. The collected vapors are piped to the compressor plant.

4.7 BACT/NSPS/NESHAP/MACT

To date, this facility has not triggered Best Available Control Technology (BACT), New Source Performance Standards (NSPS) National Emission Standards for Hazardous Air Pollutants (NESHAP) or Maximum Available Control Technology (MACT).

4.8 CEMS/Process Monitoring/CAM

- 4.8.1 **CEMS:** There are no CEMS at this facility.

- 4.8.2 **Process Monitoring:** In many instances, ongoing compliance beyond a single (snap shot) source test is assessed by the use of process monitoring systems. Examples of these monitors include: engine hour meters, fuel usage meters, water injection mass flow meters, flare gas flow meters and hydrogen sulfide analyzers. Once these process monitors are in place, it is important that they be well maintained and calibrated to ensure that the required accuracy and precision of the devices are within specifications. This permit requires no specific monitoring.

- 4.8.3 **CAM:** The Pacific Coast Energy Company - Orcutt Hill and Casmalia Oil Fields Stationary Source is a major source that is subject to the USEPA's Compliance Assurance Monitoring (CAM) rule (40 CFR 64). Any emissions unit at the facility with uncontrolled emissions potential exceeding major source emission thresholds (100 tpy) for any pollutant is subject to CAM provisions. It was determined that CAM was not applicable to any equipment units at this facility.

4.9 Source Testing/Sampling

Source testing and sampling are required in order to ensure compliance with permitted emission limits, prohibitory rules, control measures and the assumptions that form the basis for issuing operating permits. There is no source testing or sampling required at this lease.

The Rice Ranch Lease process streams are not required to be sampled and analyzed.

4.10 Part 70 Engineering Review: Hazardous Air Pollutant Emissions

Total emissions of hazardous air pollutants (HAP) are computed for each emissions unit. HAP emission factors and references are listed in Table 5.4-1. Potential HAP emissions from the facility, based on the worst-case operational scenario, are computed and listed in Table 5.4-2. The stationary source HAP emission totals are summarized in Table 5.4-3. HAP emissions have been included in the Part 70 permit solely for the purpose of any future MACT applicability determination. They do not constitute any emissions or operations limits.

5.0 Emissions

5.1 General

The facility was analyzed to determine all air-related emission sources. Emissions calculations are divided into "permitted" and "exempt" categories. District Rule 202 determines permit exempt equipment. The permitted emissions for each emissions unit is based on the equipment's potential-to-emit (as defined by Rule 102).

Section 5.2 details the permitted emissions for each emissions unit. Section 5.3 details the overall permitted emissions for the facility based on reasonable worst-case scenarios using the potential-to-emit for each emissions unit. Section 5.4 provides the federal potential to emit calculation using the definition of potential to emit used in Rule 1301. Section 5.5 provides the estimated HAP emissions from the facility. Section 5.6 (if applicable) provides the estimated emissions from permit exempt equipment and also serves as the Part 70 list of insignificant emissions. The District uses a computer database to accurately track the emissions from a facility. Attachment 10.4 contains the District's documentation for the information entered into that database.

5.2 Permitted Emission Limits - Emission Units

Each emissions unit associated with the facility was analyzed to determine the potential-to-emit for the following pollutants:

- ⇒ Nitrogen Oxides (NO_x)³
- ⇒ Reactive Organic Compounds (ROC)
- ⇒ Carbon Monoxide (CO)
- ⇒ Sulfur Oxides (SO_x)⁴
- ⇒ Particulate Matter (PM)⁵
- ⇒ Particulate Matter smaller than 10 microns (PM₁₀)
- ⇒ Particulate Matter smaller than 2.5 microns (PM_{2.5})

Permitted emissions are calculated for both short term (daily) and long term (annual) time periods. Section 4.0 (Engineering Analysis) provides a general discussion of the basic calculation methodologies and emission factors used. The reference documentation for the specific emission calculations, as well as detailed calculation spreadsheets, may be found in Section 4 and Attachments 10.1 and 10.2 respectively. Table 5.1-1 provides the basic operating characteristics. Table 5.1-2 provides the specific emission factors. Tables 5.1-3 and 5.1-4 show the permitted short-term and permitted long-term emissions for each unit or operation. In the table, the last column indicates whether the emission limits are federally-enforceable. Those emissions limits that are federally-enforceable are indicated by the symbol "FE". Those emissions limits that are District-only enforceable are indicated by the symbol "A".

5.3 Permitted Emission Limits - Facility Totals

The total potential-to-emit for all emission units associated with this facility were analyzed. This analysis assessed the reasonable worst-case operating scenarios for each operating period. The equipment operating in each of the scenarios are presented below. Unless otherwise specified,

³ Calculated and reported as nitrogen dioxide (NO₂)

⁴ Calculated and reported as sulfur dioxide (SO₂)

⁵ Calculated and reported as all particulate matter smaller than 100 μm

the operating characteristics defined in Table 5.1-1 for each emission unit are assumed. Table 5.2 shows the total permitted emissions for the facility. *There has been no change to the permitted emission totals since issuance of the previous permit renewal.*

5.4 Part 70: Federal Potential to Emit for the Facility

Table 5.3 lists the federal Part 70 potential to emit. Coating emissions, although exempt from permit requirements, are included in the federal potential to emit calculation. This facility does not belong to one of the categories listed in 40 CFR 70.2, therefore fugitive emissions do not contribute to the federal PTE.

5.5 Part 70: Hazardous Air Pollutant Emissions for the Facility

Hazardous air pollutants (HAP) emission factors for each emissions unit are listed in Table 5.4-1. Potential HAP emissions, based on the worst-case scenario, are shown in Table 5.4-2.

5.6 Exempt Emission Sources/Part 70 Insignificant Emissions

Equipment/activities exempt pursuant to District Rule 202 include maintenance operations involving surface coating. In addition, *insignificant activities* such as maintenance operations using paints and coatings, contribute to the facility emissions.

**Table 5.1-1
Pacific Coast Rice Ranch Lease: Permit to Operate 9035-R10
Operating Equipment Description**

Equipment Category	Description	Dev No	Device Specifications			Usage Data			Maximum Operating Schedule				References ¹
			Feed	Parameter	Size	Units	Capacity	Units	Load	hr	day	qtr	
Fugitive Components	Valves, Connections, etc	003080	--	--	1 well	--	--	1.0	1.0	24	2,190	8,760	B
	Pumps/Compressors/Wellheads	003081	--	--	1 well	--	--	1.0	1.0	24	2,190	8,760	

Notes:

¹ References pertain to the References listed in Attachment 10.1.

**Table 5.1-2
Pacific Coast Rice Ranch Lease: Permit to Operate 9035-R10
Equipment Emission Factors**

Equipment Category	Description	Dev No	Emission Factors ¹							Units
			NO _x	ROC	CO	SO _x	PM	PM _{2.5/10}		
Fugitive Components	Valves, Connections, etc	003080	--	--	--	--	--	--	--	
	Pumps/Compressors/Wellheads	003081	--	--	--	--	--	--	--	

Notes:

¹ See Attachment 10.2 for specific emission factors.

**Table 5.1-3
Pacific Coast Rice Ranch Lease: Permit to Operate 9035-R10
Hourly and Daily Emissions**

Equipment Category	Description	Dev No	NO _x		ROC		CO		SO _x		PM		PM _{2.5/10}		Enforceability		
			lb/hr	lb/day	lb/hr	lb/day	lb/hr	lb/day	lb/hr	lb/day	lb/hr	lb/day	lb/hr	lb/day	Type	Basis	
Fugitive Components	Valves, Connections, etc	003080	--	--	0.06	1.33	--	--	--	--	--	--	--	--	--	A	
	Pumps/Compressors/Wellheads	003081	--	--	0.00	0.02	--	--	--	--	--	--	--	--	--	A	

Notes:

A = APCD enforceable emission limit.
FE = Federally enforceable emission limit.

**Table 5.1-4
Pacific Coast Rice Ranch Lease: Permit to Operate 9035-R10
Quarterly and Annual Emissions**

Equipment Category	Description	Dev No	NO _x		ROC		CO		SO _x		PM		PM _{2.5/10}		Enforceability		
			TPQ	TPY	TPQ	TPY	TPQ	TPY	TPQ	TPY	TPQ	TPY	TPQ	TPY	Type	Basis	
Fugitive Components	Valves, Connections, etc	003080	--	--	0.06	0.24	--	--	--	--	--	--	--	--	--	A	--
	Pumps/Compressors/Wellheads	003081	--	--	0.00	0.00	--	--	--	--	--	--	--	--	--	A	--

Notes:

A = APCD enforceable emission limit.
FE = Federally enforceable emission limit.

Table 5.2
Pacific Coast Rice Ranch Lease: Permit to Operate 9035-R10
Total Permitted Facility Emissions

A. HOURLY (lb/hr)

Equipment Category	NO_x	ROC	CO	SO_x	PM	PM_{2.5/10}
Fugitive Components	--	0.06	--	--	--	--
	0.00	0.06	0.00	0.00	0.00	0.00

B. DAILY (lb/day)

Equipment Category	NO_x	ROC	CO	SO_x	PM	PM_{2.5/10}
Fugitive Components	--	1.35	--	--	--	--
	0.00	1.35	0.00	0.00	0.00	0.00

C. QUARTERLY (tpq)

Equipment Category	NO_x	ROC	CO	SO_x	PM	PM_{2.5/10}
Fugitive Components	--	0.06	--	--	--	--
	0.00	0.06	0.00	0.00	0.00	0.00

D. ANNUAL (tpy)

Equipment Category	NO_x	ROC	CO	SO_x	PM	PM_{2.5/10}
Fugitive Components	--	0.25	--	--	--	--
	0.00	0.25	0.00	0.00	0.00	0.00

Table 5.3
Pacific Coast Rice Ranch Lease: Permit to Operate 9035-R10
Federal Potential To Emit

A. PEAK HOURLY (lb/hr)

Equipment Category	NO _x	ROC	CO	SO _x	PM	PM ₁₀
Exempt Surface Coating	--	0.01	--	--	--	--
	0.00	0.01	0.00	0.00	0.00	0.00

B. PEAK DAILY (lb/day)

Equipment Category	NO _x	ROC	CO	SO _x	PM	PM ₁₀
Exempt Surface Coating	--	0.01	--	--	--	--
	0.00	0.01	0.00	0.00	0.00	0.00

C. PEAK QUARTERLY (tpq)

Equipment Category	NO _x	ROC	CO	SO _x	PM	PM ₁₀
Exempt Surface Coating	--	0.01	--	--	--	--
	0.00	0.01	0.00	0.00	0.00	0.00

D. PEAK ANNUAL (tpy)

Equipment Category	NO _x	ROC	CO	SO _x	PM	PM ₁₀
Exempt Surface Coating	--	0.01	--	--	--	--
	0.00	0.01	0.00	0.00	0.00	0.00

**Table 5.4-1
Pacific Coast Rice Ranch Lease: Permit to Operate 9035-R10
Equipment Hazardous Air Pollutant Factors**

Equipment Category	Description	Dev No	Emission Factors					Units
			Hexane	Benzene	Toluene	Xylene	Iso-Octane	
Fugitive Components	Valves, Connections, etc ¹	003080	0.2532	0.0026	--	--	0.1494	lb/lb-ROC
	Pumps/Compressors/Wellheads ²	003081	0.3779	0.0038	--	--	0.1554	lb/lb-ROC
Exempt Surface Coating	Surface Coating (Estd.) ³		--	0.050	0.050	0.050	--	lb/lb-ROC

References:

¹ The emission factors, originally in units of lb/lb-TOC, were converted to lb/lb-ROC using an ROC/TOC fraction of 0.391 from Table 3.2.3 of the District's P&P 6100.060.

² The emission factors, originally in units of lb/lb-TOC, were converted to lb/lb-ROC using an ROC/TOC fraction of 0.262 from Table 3.2.3 of the District's P&P 6100.060. The ROC/TOC ratio for Compressors is the most conservative therefore it was used.

³ Solvents assumed to contain 5% benzene, 5% toluene, 5% xylene.

**Table 5.4-2
Pacific Coast Rice Ranch Lease: Permit to Operate 9035-R10
Annual Hazardous Air Pollution Emissions (TPY)**

Equipment Category	Description	Dev No	Hexane ton/year	Benzene ton/year	Toluene ton/year	Xylene ton/year	Iso-Octane ton/year
Fugitive Components	Valves, Connections, etc	003080	6.15E-02	6.21E-04	--	--	3.63E-02
	Pumps/Compressors/Wellheads	003081	1.38E-03	1.39E-05	--	--	5.67E-04
Exempt Surface Coating	Surface Coating (Estd.)		--	5.00E-04	5.00E-04	5.00E-04	--
Totals			6.28E-02	1.13E-03	5.00E-04	5.00E-04	3.68E-02

Notes:

1. These are estimates only, and are not intended to represent emission limits.
2. Based on CAAA, Section 112 (n) (4) stipulations, the HAP emissions listed above can not be aggregated at the source for any purpose, including determination of HAP major source status for MACT applicability.

Pacific Coast Energy Company- Orcutt Hill
Stationary Source Hazardous Air Pollutant Emissions (TPY)

Facility	Permit #	Acetaldehyde	Acrolein	Benzene	Ethylbenzene	Formaldehyde	Heptane	Isocutane	Naphthalene	PAH	Toluene	Xylene	Acetic	Beryllium	Cadmium	Chromium	Cobalt	Manganese	Mercury	Nickel	Selenium	Bismuth	1,3-Butadiene	1,1,2,2-tetrahalobutane	1,1,2-Trichloroethane	1,3-Dibromopropane	Chloroform	Chlorobenzene	Chloroacetaldehyde	Chloroform	Ethylene Dichloride	Hydrochloric acid	Lead	Methylene Chloride	Methane	Phenol	Styrene	Vinyl Chloride	Total All HAPs	
4214 - Orcutt Hill IC Engines	PTO 8039-R9	5.16E-01	4.65E-01	3.37E-01	8.08E-01	3.02E+00	7.00E-03	2.23E-02	4.09E-02	2.56E-02	9.05E-02	3.79E-02	6.81E-04	--	1.64E-04	6.57E-05	--	3.99E-04	2.19E-04	4.27E-04	2.41E-04	2.17E-06	1.11E-01	4.33E-03	2.63E-03	2.18E-03	3.04E-03	2.27E-03	2.65E-03	4.44E-03	2.09E-02	1.19E-03	5.46E-03	4.01E-01	2.32E-05	2.05E-03	1.23E-03	5.925		
4104 - Orcutt Hill Compressor Plant	PTO 8174 - R7	8.97E-06	5.63E-06	9.63E-03	1.98E-05	3.55E-05	5.22E-01	--	6.26E-07	8.34E-07	5.76E-04	5.57E-04	4.17E-07	2.50E-08	2.29E-06	2.92E-06	1.75E-07	7.93E-07	5.42E-07	4.38E-06	5.01E-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.532
3206 - Cal Coast Lease (Orcutt Hill)	PTO 8226-R10	--	--	4.53	--	--	0.37	0.25	--	--	4.50	4.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14.123
10482 - Orcutt Hill - Steam Generators	PTO 11405-R3	2.97E-04	2.59E-04	2.40E-03	6.62E-04	1.18E-03	7.04E-02	6.19E-02	3.84E-05	2.88E-05	3.04E-03	2.39E-03	1.92E-05	1.15E-06	1.06E-04	1.34E-04	8.06E-06	3.65E-05	2.49E-05	2.01E-04	2.30E-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.143
3322 - Pinal Lease	PTO 8502-R8	--	--	8.77E-02	--	--	5.67E-01	3.73E-01	--	--	5.05E-02	5.00E-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.079
3324 - Squires Lease	PTO 8223 -R9	--	--	8.34E-02	--	--	6.72E-01	4.76E-01	--	--	4.64E-02	5.00E-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.281	
3319 - Hartnell Lease	PTO 9029-R7	--	--	3.45E-02	--	--	4.84E-01	3.89E-01	--	--	1.68E-02	5.00E-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.884	
3323 - Rice Ranch Lease (Orcutt Hill)	PTO 9035-R7	--	--	1.29E-03	--	--	4.16E-02	3.68E-02	--	--	5.00E-04	5.00E-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.081	
3316 - Folsom Lease	PTO 9026-R7	--	--	3.05E-02	--	--	3.40E-01	2.62E-01	--	--	1.58E-02	5.00E-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.648	
3320 - Hobbs Lease	PTO 9027-R7	--	--	3.46E-02	--	--	3.08E-01	2.26E-01	--	--	1.89E-02	5.00E-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.587	
3314 - Dome Lease	PTO 9000-R7	--	--	2.97E-02	--	--	2.98E-01	2.20E-01	--	--	1.58E-02	5.00E-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.564	
3495 - Getty Hobbs Lease (Orcutt Hill)	PTO 9031-R7	--	--	1.29E-03	--	--	4.16E-02	3.68E-02	--	--	5.00E-04	5.00E-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.081	
3313 - Fox Lease	PTO 8514-R9	--	--	3.67E-03	--	--	1.66E-01	1.47E-01	--	--	5.00E-04	5.00E-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.317	
3318 - Graciosa Lease	PTO 9028-R7	--	--	7.77E-03	--	--	1.34E-01	1.11E-01	--	--	3.56E-03	5.00E-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.257	
1904 - Orcutt Hill Field (MVFF)	PTO 11666-R3	--	--	4.00E-04	6.40E-04	--	--	--	--	--	3.20E-03	9.60E-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.005	
3321 - Newlove Lease	PTO 8240-R9	2.42E-03	2.11E-03	2.60E-01	5.40E-03	9.62E-03	3.63E+00	2.90E+00	2.35E-04	3.13E-04	1.42E-01	1.59E-02	1.56E-04	9.39E-06	8.60E-04	1.10E-03	6.67E-05	2.97E-04	2.03E-04	1.64E-03	1.89E-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.969	
Total Stationary Source - By Pollutant		0.52	0.46	5.45	0.81	3.03	7.63	5.49	4.12E-02	2.59E-02	4.91	4.53	8.57E-04	1.06E-05	1.13E-03	1.30E-03	7.39E-05	6.74E-04	4.48E-04	2.28E-03	2.62E-04	2.17E-06	0.11	4.33E-03	2.63E-03	2.18E-03	3.04E-03	2.27E-03	2.65E-03	4.44E-03	2.09E-02	1.19E-03	5.46E-03	0.40	2.32E-05	2.05E-03	1.23E-03	33.48		

Notes:
1. These are estimates only, and are not intended to represent emission limits.
2. Based on CAAA, Section 112 (n) (4) stipulations, the HAP emissions listed above can not be aggregated at the source for any purpose, including determination of HAP major source status for MACT applicability.

6.0 Air Quality Impact Analyses

6.1 Modeling

Air quality modeling has not been required for this stationary source.

6.2 Increments

An air quality increment analysis has not been required for this stationary source.

6.3 Monitoring

Air quality monitoring is not required for this stationary source.

6.4 Health Risk Assessment

The Pacific Coast Energy Company - Orcutt Hill Stationary Source is subject to the Air Toxics “Hot Spots” Program (AB 2588). A health risk assessment (HRA) for the Orcutt Hill facilities was prepared by the District on September 28, 1993 under the requirements of the AB 2588 program. The HRA is based on 1991 toxic emissions inventory data submitted to the District by Luft Environmental Consulting on behalf of the Unocal Corporation, the previous owners of the Orcutt Hill stationary source.

Based on the 1991 toxic emissions inventory, a cancer risk of about 5 per million at the property boundary was estimated for the Pacific Coast Energy Company - Orcutt Hill Stationary Source. This risk is primarily due to benzene emitted from storage tanks at the site. Additionally, chronic and acute noncarcinogenic risks of 0.3 and 0.2 have been estimated by the District and are mainly due to acrolein emissions from internal combustion engines. Approximately 3,663 pounds of benzene and about 317 pounds of acrolein were emitted from the entire stationary source in 1991. The cancer and noncancer risk projections are less than the District’s AB 2588 significance thresholds of 10 in a million and 1.0, respectively.

A second health risk assessment (HRA), based on the 2005 toxics emissions inventory, was prepared for the Orcutt Hill facilities in conjunction with the Diatomite Project permit process located on the Newlove Lease. This HRA was revised in January 2009, to reflect the current status of electrification of injection pump engines and engine locations. The results of this HRA are provided below:

Pathway	Health Impact Type	HARP Receptor Number	HARP Receptor Type	UTM Easting (NAD83, m)	UTM Northing (NAD83, m)	Health Risk	Significant Risk Level
Inhalation Only	Cancer	12024	Boundary	735210	3858241	8.73	≥ 10
	Chronic	12024	Boundary	735210	3858241	0.0175	≥ 1
	Acute	11936	Boundary	735998	3859372	0.823	≥ 1
Multi Pathway	Cancer	12024	Boundary	735210	3858241	9.80	≥ 10
	Chronic	12024	Boundary	735210	3858241	0.0175	≥ 1
	Acute	11936	Boundary	735998	3859372	0.823	≥ 1

7.0 CAP Consistency, Offset Requirements and ERCs

7.1 General

Santa Barbara County has not attained the state PM₁₀ air quality standards. Therefore, emissions from all emission units at the stationary source and its constituent facilities must be consistent with the provisions of the USEPA and State approved Clean Air Plans (CAP) and must not interfere with progress toward attainment of federal and state ambient air quality standards. Under District regulations, any modifications at the source that result in an emission increase of any nonattainment pollutant exceeding 25 lbs/day must apply BACT (NAR). Increases above offset thresholds will trigger offsets at the source or elsewhere so that there is a net air quality benefit for Santa Barbara County. These offset threshold levels are 240 lbs/day for all attainment pollutants and precursors (except carbon monoxide and PM_{2.5}) and 25 tons/year for all non-attainment pollutants and precursors (except carbon monoxide and PM_{2.5}).

7.2 Clean Air Plan

The 2007 Clean Air Plan, adopted by the District Board on August 16, 2007, addressed both federal and state requirements, serving as the maintenance plan for the federal eight-hour ozone standard and as the state triennial update required by the Health and Safety Code to demonstrate how the District will expedite attainment of the state eight-hour ozone standard. The plan was developed for Santa Barbara County as required by both the 1998 California Clean Air Act and the 1990 Federal Clean Air Act Amendments.

In December 2019 the District Board adopted the 2019 Ozone Plan. The 2019 Plan provides a three-year update to the 2010 Clean Air Plan. The 2019 Clean Air Plan therefore satisfies all state triennial planning requirements.

7.3 Offset Requirements

The Pacific Coast Energy Company - Orcutt Hill and Casmalia Oil Fields Stationary Source triggers emission offsets for NO_x and ROCs. Tables 7.3(a) and 7.3(b) summarize the emissions and offset totals for this stationary source.

7.4 Emission Reduction Credits

There are no Emission Reduction Credits associated with the Rice Ranch Lease.

Table 7.3(a) - Offset Liability Table for PCEC Orcutt Hill and Casmalia Oil Fields Stationary Source
Updated: January 30, 2024

Item	Permit	Facility	Issue Date	ERC Returned?	Project	Offset Liability		ERC Source	Notes
						---- tons/year	----		
						NO _x	ROC		
1	Prior Offset Liabilities	Various	pre-8/2016	n/a	See Archive Offset Tables	11.357	18.348	Various	(a)
2	ATC 14921	Pinal Lease	03/09/17	No	Wash Tank Replacement	0.000	0.440	ERC 301	(b)
3	ATC/PTO 15256	Orcutt Hill Field (MVFF)	11/30/18	No	MVFF Throughput Increase	0.000	0.013	ERC 462	
4	ATC 15506	Newlove Lease	07/30/20	No	Wash Tank Replacement	0.000	0.270	ERC 507	
5	ATC 15980	Cal Coast Lease (Orcutt Hill)	04/27/23	No	Wash Tank Replacement	0.000	0.090	ERC 565	(b)
6	ATC 16040	Pinal Lease	07/12/23	No	Produced Water Tank Replacement	0.000	0.196	ERC 548	(b)
7	ATC 16121	Newlove Lease	TBD	No	Wash Tank Replacement	0.000	0.128	ERC 640	(b)

TOTALS (tpy) = 11.357 19.485

Notes

- (a) Pre-August 26, 2016 offset liabilities are summarized in Items (1). See facility Archive Offset Tables for details.
- (b) NO_x for ROC Interpollutant trade.
- (c) See Table 1(b) for ERCs required to mitigate the offset liability. ERC Source denotes the ERC Certificate # used by the ATC permit.
- (d) Permits with zero emission increases not shown in this table.

\\bocapcd.org\shares\Groups\ENGR\W\P\O\8\Gas\Major Sources\SSID 02667 Pacific Coast Energy\Orcutt Hill\Offsets\Post 2016 NSR Rule Change PCEC Orcutt Hill Offset-ERC Table - (04-03-23).xlsx\Table 7b) - ERCs

Table 7.3(b) - Emission Reduction Credits Table for PCEC Orcutt Hill and Casmalia Oil Fields Stationary Source
Updated: January 30, 2024

Item	Permit	Facility	Surrender Date	ERC Returned?	Emission Reduction Credits		Offset Ratio	ERC Source	NOTES
					---- tons/year	----			
					NO _x	ROC			
1	Prior Offset Liabilities	Various	pre-8/2016	n/a	13.628	22.017	varied	Various	(a)(b)
2	ATC 14921	Pinal Lease	03/09/17	No	0.000	0.484	1.1	ERC 301	(a)(b)(c)
3	ATC/PTO 15256	Orcutt Hill Field (MVFF)	11/30/18	No	0.000	0.014	1.1	ERC 462	(a)(b)
4	ATC 15506	Newlove Lease	07/30/20	No	0.000	0.297	1.1	ERC 507	(a)(b)
5	ATC 15980	Cal Coast Lease (Orcutt Hill)	04/27/23	No	0.000	0.099	1.1	ERC 565	(a)(b)(c)
6	ATC 16040	Pinal Lease	01/17/23	No	0.000	0.215	1.1	ERC 548	(a)(b)(c)
7	ATC 16121	Newlove Lease	TBD	No	0.000	0.141	1.1	ERC 640	(a)(b)

TOTALS (tpy) = 13.628 23.268

Notes

- (a) Items 1 reflects all NSR ERCs used for the PCEC Orcutt Hill stationary source facilities prior to August 26, 2016. See the August 26, 2016 Archive Offset Tables for details.
- (b) **Brown text** cells require data entry. Do not enter data in **Black text** cells
- (c) NO_x for ROC interpollutant trade.

\\bocapcd.org\shares\Groups\ENGR\W\P\O\8\Gas\Major Sources\SSID 02667 Pacific Coast Energy\Orcutt Hill\Offsets\Post 2016 NSR Rule Change PCEC Orcutt Hill Offset-ERC Table - (04-03-23).xlsx\Table 7a) - Offsets

8.0 Lead Agency Permit Consistency

To the best of the District's knowledge, no other governmental agency's permit requires air quality mitigation.

9.0 Permit Conditions

This section lists the applicable permit conditions for the Rice Ranch Lease. Section A lists the standard administrative conditions. Section B lists 'generic' permit conditions, including emission standards, for all equipment in this permit. Section C lists conditions affecting specific equipment. Section D lists non-federally-enforceable (i.e., District only) permit conditions. Conditions listed in Sections A, B and C are enforceable by the USEPA, the District, the State of California and the public. Conditions listed in Section D are enforceable only by the District and the State of California. Where any reference contained in Sections 9.A, 9.B or 9.C refers to any other part of this permit, that part of the permit referred to is federally-enforceable. In case of a discrepancy between the wording of a condition and the applicable federal or District rule(s), the wording of the rule shall control.

For the purposes of submitting compliance certifications or establishing whether or not a person has violated or is in violation of any standard in this permit, nothing in the permit shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test had been performed.

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9.A Standard Administrative Conditions

The following federally-enforceable administrative permit conditions apply to the Rice Ranch Lease:

A.1 Compliance with Permit Conditions.

- (a) The permittee shall comply with all permit conditions in Sections 9.A, 9.B and 9.C.
- (b) This permit does not convey property rights or exclusive privilege of any sort.
- (c) Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and re-issuance, or modification; or for denial of a permit renewal application.
- (d) It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- (e) A pending permit action or notification of anticipated noncompliance does not stay any permit condition.
- (f) Within a reasonable time period, the permittee shall furnish any information requested by the Control Officer, in writing, for the purpose of determining:
 - (i) compliance with the permit, or
 - (ii) whether or not cause exists to modify, revoke and reissue, or terminate a permit or for an enforcement action.
- (g) In the event that any condition herein is determined to be in conflict with any other condition contained herein, then, if principles of law do not provide to the contrary, the condition most protective of air quality and public health and safety shall prevail to the extent feasible. [*Re: 40 CFR Part 70.6, District Rule 1303.D.1*]

A.2 Emergency Provisions. Revoked.

A.3 Compliance Plan.

- (a) The permittee shall comply with all federally-enforceable requirements that become applicable during the permit term, in a timely manner, as identified in any compliance plan required under any federally-enforceable rules or standards.
- (b) For all applicable equipment, the permittee shall implement and comply with any specific compliance plan required under any federally-enforceable rules or standards. [*Re: District Rule 1302.D.2*]

A.4 Right of Entry. The Regional Administrator of USEPA, the Control Officer, or their authorized representatives, upon the presentation of credentials, shall be permitted to enter upon the premises where a Part 70 Source is located or where records must be kept:

- (a) To inspect the stationary source, including monitoring and control equipment, work practices, operations, and emission-related activity;
- (b) To inspect and duplicate, at reasonable times, records required by this Permit to Operate;
- (c) To sample substances or monitor emissions from the source or assess other parameters to assure compliance with the permit or applicable requirements, at reasonable times. Monitoring of emissions can include source testing. [*Re: District Rule 1303.D.2*]

A.5 **Permit Life.** The Part 70 permit shall become invalid three years from the date of issuance unless a timely and complete renewal application is submitted to the District. Any operation of the source to which this Part 70 permit is issued beyond the expiration date of this Part 70 permit and without a valid Part 70 operating permit (or a complete Part 70 permit renewal application) shall be a violation of the CAAA, § 502(a) and 503(d) and of the District rules.

The permittee shall apply for renewal of the Part 70 permit not later than 6-months before the date of the permit expiration. Upon submittal of a timely and complete renewal application, the Part 70 permit shall remain in effect until the Control Officer issues or denies the renewal application. [*Re: District Rule 1304.D.1*]

A.6 **Payment of Fees.** The permittee shall reimburse the District for all its Part 70 permit processing and compliance expenses for the stationary source on a timely basis. Failure to reimburse on a timely basis shall be a violation of this permit and of applicable requirements and can result in forfeiture of the Part 70 permit. Operation without a Part 70 permit subjects the source to potential enforcement action by the District and the USEPA pursuant to section 502(a) of the Clean Air Act. [*Re: District Rules 1303.D.1 and 1304.D.11, 40 CFR 70.6*]

A.7 **Prompt Reporting of Deviations.** The permittee shall submit a written report to the District documenting each and every deviation from the requirements of this permit or any applicable federal requirements within 7 days after discovery of the violation, but not later than 180-days after the date of occurrence. The report shall clearly document 1) the probable cause and extent of the deviation, 2) equipment involved, 3) the quantity of excess pollutant emissions, if any, and 4) actions taken to correct the deviation. The requirements of this condition shall not apply to deviations reported to District in accordance with Rule 505. *Breakdown Conditions*. [District Rule 1303.D.1, 40 CFR 70.6(a) (3)]

A.8 **Reporting Requirements/Compliance Certification.** The permittee shall submit compliance certification reports to the USEPA and the Control Officer every six months. A paper copy, as well as a complete PDF electronic copy of these reports, shall be in a format approved by the District. These reports shall be submitted on District forms and shall identify each applicable requirement/condition of the permit, the compliance status with each requirement/condition, the monitoring methods used to determine compliance, whether the compliance was continuous or intermittent, and include detailed information on the occurrence and correction of any deviations (excluding emergency upsets) from permit requirement. The reporting periods shall be each half of the calendar year, e.g., January through June for the first half of the year. These reports shall be submitted by September 1 and March 1, respectively, each year. Supporting monitoring data shall be submitted in accordance with the “Semi-Annual Monitoring/Compliance Verification Report” condition in section 9.C. The permittee shall include a written statement from the responsible official, which certifies the truth, accuracy, and completeness of the reports. [*Re: District Rules 1303.D.1, 1302.D.3, 1303.2.c*]

A.9 **Federally-Enforceable Conditions.** Each federally-enforceable condition in this permit shall be enforceable by the USEPA and members of the public. None of the conditions in the District-only enforceable section of this permit are federally-enforceable or subject to the public/USEPA review. [Re: CAAA, § 502(b)(6), 40 CFR 70.6]

A.10 **Recordkeeping Requirements.** Records of required monitoring information shall include the following:

- (a) The date, place as defined in the permit, and time of sampling or measurements;
- (b) The date(s) analyses were performed;
- (c) The company or entity that performed the analyses;
- (d) The analytical techniques or methods used;
- (e) The results of such analyses; and
- (f) The operating conditions as existing at the time of sampling or measurement;

The records (electronic or hard copy), as well as all supporting information including calibration and maintenance records, shall be maintained for a minimum of five (5) years from date of initial entry by the permittee and shall be made available to the District upon request. [Re: District Rule 1303.D.1.f, 40 CFR 70.6(a)(3)(ii)(A)]

A.11 **Conditions for Permit Reopening.** The permit shall be reopened and revised for cause under any of the following circumstances:

- (a) Additional Requirements: If additional applicable requirements (e.g., NSPS or MACT) become applicable to the source which has an unexpired permit term of three (3) or more years, the permit shall be reopened. Such a reopening shall be completed no later than 18 months after promulgation of the applicable requirement. However, no such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended. All such re-openings shall be initiated only after a 30-day notice of intent to reopen the permit has been provided to the permittee, except that a shorter notice may be given in case of an emergency.
- (b) Inaccurate Permit Provisions: If the District or the USEPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emission standards or other terms or conditions of the permit, the permit shall be reopened. Such re-openings shall be made as soon as practicable.
- (c) Applicable Requirement: If the District or the USEPA determines that the permit must be revised or revoked to assure compliance with any applicable requirement including a federally-enforceable requirement, the permit shall be reopened. Such re-openings shall be made as soon as practicable.

Administrative procedures to reopen and revise/revoke/reissue a permit shall follow the same procedures as apply to initial permit issuance. Re-openings shall affect only those parts of the permit for which cause to reopen exists.

If a permit is reopened, the expiration date does not change. Thus, if the permit is reopened, and revised, then it will be reissued with the expiration date applicable to the re-opened permit. [Re: 40 CFR 70.7, 40 CFR 70.6]

- A.12 **Grounds for Revocation.** Failure to abide by and faithfully comply with this permit or any Rule, Order, or Regulation may constitute grounds for the APCO to petition for permit revocation pursuant to California Health & Safety Code Section 42307 *et seq.*
- A.13 **Severability.** In the event that any condition herein is determined to be invalid, all other conditions shall remain in force.

9.B. Generic Conditions

The generic conditions listed below apply to all emission units, regardless of their category or emission rates. In case of a discrepancy between the wording of a condition and the applicable federal or District rule(s), the wording of the rule shall control.

- B.1 **Circumvention (Rule 301).** A person shall not build, erect, install, or use any article, machine, equipment or other contrivance, the use of which, without resulting in a reduction in the total release of air contaminants to the atmosphere, reduces or conceals an emission which would otherwise constitute a violation of Division 26 (Air Resources) of the Health and Safety Code of the State of California or of these Rules and Regulations. This Rule shall not apply to cases in which the only violation involved is of Section 41700 of the Health and Safety Code of the State of California, or of District Rule 303. [*Re: District Rule 301*]
- B.2 **Visible Emissions (Rule 302).** The permittee shall not discharge into the atmosphere from any single source of emission any air contaminants for a period or periods aggregating more than three minutes in any one hour which is:
- (a) As dark or darker in shade as that designated as No. 1 on the Ringlemann Chart, as published by the United States Bureau of Mines, or
 - (b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subsection B.2(a) above. [*Re: District Rule 302*]
- B.3 **Nuisance (Rule 303).** No pollutant emissions from any source at this lease shall create nuisance conditions. Operations shall not endanger health, safety or comfort, nor shall they damage any property or business. [*Re: District Rule 303*]
- B.4 **Specific Contaminants (Rule 309).** The permittee shall not discharge into the atmosphere from any single source sulfur compounds and combustion contaminants (particulate matter) in excess of the applicable standards listed in Sections A through E of Rule 309. [*Re: District Rule 309*].
- B.5 **Organic Solvents (Rule 317).** The permittee shall comply with the emission standards listed in Rule 317.B. Compliance with this condition shall be based on the permittee's compliance with Condition C.2 of this permit. [*Re: District Rule 317*]
- B.6 **Metal Surface Coating Thinner and Reducer (Rule 322).** The use of photochemically reactive solvents as thinners or reducers in metal surface coatings is prohibited. Compliance with this condition shall be based on the permittee's compliance with Condition C.2 of this permit and facility inspections. [*Re: District Rule 322*]
- B.7 **Architectural Coatings (Rule 323.I).** The permittee shall comply with the coating ROC content and handling standards listed in Section D of this rule. Compliance with this condition shall be based on the permittee's compliance with Condition C.2 of this permit and facility inspections. [*Re: District Rules 323, 317, 322, 324*]

- B.8 **Disposal and Evaporation of Solvents (Rule 324).** The permittee shall not dispose through atmospheric evaporation of more than one and a half gallons of any photochemically reactive solvent per day. Compliance with this condition shall be based on the permittee's compliance with Condition C.2 of this permit and facility inspections. *[Re: District Rule 324]*
- B.9 **Emergency Episode Plans (Rule 603).** During emergency episodes, the permittee shall implement the Emergency Episode Plan dated March 30, 1999. *[Reference District Rule 603]*
- B.10 **Adhesives and Sealants (Rule 353).** The permittee shall not use adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers, or any other primers, unless the permittee complies with the following:
- (a) Such materials used are purchased or supplied by the manufacturer or suppliers in containers of 16 fluid ounces or less; or alternately
 - (b) When the permittee uses such materials from containers larger than 16 fluid ounces and the materials are not exempt by Rule 353, Section B.1, the total reactive organic compound emissions from the use of such material shall not exceed 200 pounds per year unless the substances used and the operational methods comply with Sections D, E, F, G, and H of Rule 353. Compliance shall be demonstrated by recordkeeping in accordance with Section B.2 and/or Section O of Rule 353. *[Re: District Rule 353]*
- B.11 **Oil and Natural Gas Production MACT.** The permittee shall comply with the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPS) for Oil and Natural Gas Production and Natural Gas Transmission and Storage (promulgated June 17, 1999). At a minimum, the permittee shall maintain records in accordance with 40 CFR Part 63, Subpart A, Section 63.10 (b) (1) and (3). *[Re: 40 CFR 63, Subpart HH]*
- B.12 **CARB Registered Portable Equipment.** State registered portable equipment shall comply with State registration requirements. A copy of the State registration shall be readily available whenever the equipment is at the facility. *[Re: District Rule 202]*

9.C Requirements and Equipment Specific Conditions

This section contains non-generic federally-enforceable conditions, including emissions and operations limits, monitoring, recordkeeping and reporting for each specific equipment group. This section may also contain other non-generic conditions.

C.1 **Fugitive Hydrocarbon Emissions Components.** The following equipment are included in this emissions unit category:

Dev No	Equipment
003080	Valves, flanges and other components in hydrocarbon service

- (a) Emission Limits: Fugitive emission limits are not federally-enforceable.
- (b) Operational Limits: Operation of the equipment listed in this section shall conform to the requirements listed in District Rule 331.D and E. Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit. In addition, the permittee shall meet the following requirements:
 - (i) *Fugitive Inspection and Maintenance Plan (I&M Plan)*: The District-approved I&M Plan, and any updates, shall be implemented for the life of the project. An updated Fugitive Emissions Inspection and Maintenance Plan must be submitted to the District for review and approval within one calendar quarter whenever there is a change in the component list or diagrams.
 - (ii) *Venting*: All routine venting of hydrocarbons shall be routed to either a sales compressor, flare header, injection well or other District-approved control device.
- (c) Monitoring: The equipment listed in this section are subject to all the monitoring requirements listed in District Rule 331.F. The test methods in Rule 331.H shall be used, when applicable.
- (d) Recordkeeping: All inspection and repair records shall be retained at the source for a minimum of five years. The equipment listed in this section are subject to all the recordkeeping requirements listed in District Rule 331.G.
- (e) Reporting: On a semi-annual basis, a report detailing the previous six-month's activities shall be provided to the District. The report must list all data required by the *Semi-Annual Compliance Verification Reports* condition of this permit.
[Re: District Rules 331 and 1303, 40 CFR 70.6]

C.2 **Solvent Usage.** The following items are included in this emissions unit category: Photochemically reactive solvents, surface coatings and general solvents.

- (a) Emission Limits: The following solvent emission limits are federally-enforceable for the entire stationary source:

Solvent Type	lbs/hour	lbs/day
Photochemically Reactive	8 lbs/hour	40 lbs/day
Non-Photochemically Reactive	450 lbs/hour	3,000 lbs/day

- (b) **Operational Limits:** Use of solvents for cleaning/degreasing shall conform to the requirements of District Rules 317, 322, 323 and 324. Compliance with these rules shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit and facility inspections.
 - (i) **Reclamation Plan:** The permittee may submit a Plan to the District for the disposal of any reclaimed solvent. If the Plan is approved by the District, all solvent disposed of pursuant to the Plan will not be assumed to have evaporated as emissions into the air and, therefore, will not be counted as emissions from the source. The permittee shall obtain District approval of the procedures used for such a disposal Plan. The Plan shall detail all procedures used for collecting, storing and transporting the reclaimed solvent. Further, the ultimate fate of these reclaimed solvents must be stated in the Plan.
- (c) **Monitoring:** None.
- (d) **Recordkeeping:** The permittee shall record in a log the following on a monthly basis for each solvent used: amount used; the percentage of ROC by weight (as applied); the solvent density; the amount of solvent reclaimed for District-approved disposal; whether the solvent is photochemically reactive; and, the resulting emissions to the atmosphere in units of pounds per month and pounds per day. Product sheets (MSDS or equivalent) detailing the constituents of all solvents shall be maintained in a manner readily accessible to District inspection.
- (e) **Reporting:** On a semi-annual basis, a report detailing the previous six-month's activities shall be provided to the District. The report must list all data required by the *Semi-Annual Compliance Verification Reports* condition of this permit.

C.3 **Emission Offsets.** PCEC shall offset all oxides of nitrogen (NO_x) and reactive organic compound (ROC) emissions pursuant to Tables 7.3(a) and 7.3(b) of this permit. Emission reduction credits (ERCs) sufficient to offset the permitted quarterly NO_x and ROC emissions shall be in place for the life of the project..

C.4 **Recordkeeping.** The permittee shall maintain all records and logs required by this permit or any applicable federal rule or regulation for a minimum of five calendar years from the date of information collection and log entry at the lease. These records or logs shall be readily accessible and be made available to the District upon request.

C.5 **Semi-Annual Monitoring/Compliance Verification Reports.** The permittee shall submit a report to the District every six months to verify compliance with the emission limits and other requirements of this permit. The reporting periods shall be each half of the calendar year, e.g., January through June for the first half of the year. These reports shall be submitted by September 1 and March 1, respectively, each year, and shall be in a format approved by the District, with one hard copy and one PDF copy. All logs and other basic source data not included in the report shall be available to the District upon request. The second report shall also include an annual report for the prior four quarters. The report shall include the following information:

- (a) Rule 331 fugitive hydrocarbon I&M program data:
 - inspection summary
 - record of leaking components

- record of leaks from critical components
 - record of leaks from components that incur five repair actions within a continuous 12-month period
 - record of component repair actions including dates of component re-inspections
- (b) *Surface Coating and Solvent Usage:* On a monthly basis the amount of surface coating/solvent used; the percentage of ROC by weight (as applied); the surface coating/solvent density; the amount of solvent reclaimed; whether the surface coating/solvent is photochemically reactive; and, the resulting emissions of ROC and photochemically reactive surface coatings/solvents to the atmosphere in units of pounds per month.
- (c) *Emissions:* Annual NO_x and ROC emissions from both permitted and exempt equipment.
- C.6 **Requirements for Produced Gas.** The emissions of produced gas shall be controlled at all times using a properly maintained and operated system that directs all produced gas, except gas used in a tank battery vapor recovery system, to one of the following: (a) a system handling gas for fuel, sale, or underground injection; or (b) a flare that combusts reactive organic compounds; or (c) a device with an ROC vapor removal efficiency of at least 90% by weight. The provisions of this condition shall not apply to wells that are undergoing routine maintenance.
- C.7 **External Combustion Units - Permits Required.**
- (a) An ATC/PTO permit shall be obtained prior to installation of any grouping of Rule 360 applicable boilers or hot water heaters whose combined system design heat input rating exceeds 2.000 MMBtu/hr.
 - (b) An ATC permit shall be obtained prior to installation, replacement, or modification of any existing Rule 361 applicable boiler or water heater rated over 2.000 MMBtu/hr.
 - (c) An ATC shall be obtained for any size boiler or water heater if the unit is not fired on natural gas or propane.
- C.8 **Documents Incorporated by Reference.** PCEC shall implement, and operate in accordance with, each of the plan listed below. This plan, including any District-approved updates thereof, is incorporated herein and shall have the full force and effect of a permit condition for this operating permit. This plan shall be implemented for the life of the project.
- *Fugitive Emissions Inspection and Maintenance Plan (approved September 27, 2005)*

9.D **District-Only Conditions**

The following section lists permit conditions that are not federally-enforceable (i.e., not enforceable by the USEPA or the public). However, these conditions are enforceable by the District and the State of California. These conditions have been determined as being necessary to ensure that operation of the facility complies with all applicable local and state air quality rules, regulations and laws. Failure to comply with any of these conditions shall be a violation of District Rule 206, this permit, as well as any applicable section of the California Health & Safety Code.

- D.1 **Condition Acceptance.** Acceptance of this operating permit by the permittee shall be considered as acceptance of all terms, conditions, and limits of this permit.
- D.2 **Consistency with Analysis.** Operation under this permit shall be conducted consistent with all data, specifications and assumptions included with the application and supplements thereof (as documented in the District's project file), and with the District's analyses under which this permit is issued as documented in the Permit Analyses prepared for and issued with the permit.
- D.3 **Compliance.** Nothing contained within this permit shall be construed to allow the violation of any local, State or Federal rule, regulation, ambient air quality standard or air quality increment.
- D.4 **Abrasive Blasting Equipment.** All abrasive blasting activities performed on the Rice Ranch Lease shall comply with the requirements of the California Administrative Code Title 17, Sub-Chapter 6, Sections 92000 through 92530.
- D.5 **Mass Emission Limitations.** Mass emissions for each equipment item (i.e., emissions unit) associated with the Rice Ranch Lease shall not exceed the values listed in Table 5.1-3 and 5.1-4. Emissions for the entire facility shall not exceed the total limits listed in Table 5.2.
- D.6 **Annual Compliance Verification Reports.** The permittee shall submit a report to the District, by March 1 of each year containing the information listed below and shall document compliance with all applicable permit requirements. A paper copy, as well as a complete PDF electronic copy of these reports, shall be in a format approved by the District. All logs and other basic source data not included in the report shall be available to the District upon request. Pursuant to Rule 212, the annual report shall include a completed *District Annual Emissions Inventory* questionnaire, or the questionnaire may be submitted electronically via the District website. The report shall include the following information:
- (a) Breakdowns and variances reported/obtained per Regulation V along with the excess emissions that accompanied each occurrence.
 - (b) The ROC and NO_x emissions from all permit exempt activities (tons per year by device/activity).
 - (c) The annual emissions totals of all pollutants in tons per year for each emission unit and summarized for the entire facility.

- D.7 **Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities.** The equipment permitted herein shall be operated in compliance with the California Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities regulation (CCR Title 17, Section 95665 *et. Seq.*).
- D.8 **CARB GHG Regulation Recordkeeping.** The permittee shall maintain at least 5 years of records that document the following:
- (a) The number of crude oil or natural gas wells at the facility.
 - (b) A list identifying all pressure vessels, tanks, separators, sumps, and ponds at the facility, including the size of each tank and separator in units of barrels.
 - (c) The annual crude oil, natural gas, and produced water throughput of the facility.
 - (d) A list identifying all reciprocating and centrifugal natural gas compressors at the facility.
 - (e) A count of all natural gas powered pneumatic devices and pumps at the facility.
 - (f) A copy of the *Best Practices Management Plan* designed to limit methane emissions from circulation tanks, if applicable.
- D.9 **CARB GHG Regulation Reporting.** On an annual basis, the permittee shall report all throughput data and any updates to the information recorded pursuant to the *CARB GHG Regulation Recordkeeping* Condition above using District Annual Report Form ENF-108. This report shall be submitted by March 1 of each year detailing the previous year's activities.

Air Pollution Control Officer

Date

NOTES:

- (a) This permit supersedes PTO 9035-R9
- (b) Permit Reevaluation Due Date: June 1, 2024

10.0 Attachments

- 10.1 Emission Calculation Documentation
- 10.2 Emission Calculation Spreadsheets
- 10.3 Fee Calculation
- 10.4 IDS Tables
- 10.5 Equipment List
- 10.6 Well List

10.1 EMISSION CALCULATION DOCUMENTATION – RICE RANCH LEASE

This attachment contains all relevant emission calculation documentation used for the emission tables in Section 5. Refer to Section 4 for the general equations. Detailed calculation spreadsheets are attached as Attachment 10.2. The letters A - C refer to Tables 5.1-1 and 5.1-2.

Reference A -Fugitive Emitting Components

- Emission factors are based on the *District P&P 6100.060* guidelines.
- In determining the facility model using the CARB/KVB methodology for fugitive emissions, a default Gas Oil Ratio of 501 scf/bbl was used. This value assumes the worst case model.
- An 80% reduction in fugitive emissions was assumed due to the implementation of a fugitive inspection and maintenance plan pursuant to Rule 331.

Reference B - Solvents

- All solvents not used to thin surface coatings are included in this equipment category.
- Daily and annual emission rates assumed to be minimal (0.01 lb/day, 0.01 TPY).

10.2 Emission Calculation Spreadsheets

FUGITIVE HYDROCARBON EMISSION CALCULATIONS - CARB/KVB METHOD (Ver. 6.0)				
Page 1 of 2				
Attachment: A Permit Number: PTO 9035-R10 Facility: Rice Ranch				
Input Data				
<i>Facility Information</i>				
	<i>Value</i>	<i>Units</i>	<i>Reference</i>	
Number of Active Wells at Facility.....	1	wells	Permit Application	
Facility Gas Production.....	0	scf/day	Permit Application	
Facility Dry Oil Production.....	0	bbbls/day	Permit Application	
Facility Gas to Oil Ratio (if > 500 then default to 501).....	501	scf/bbl	Permit Application	
API Gravity.....	25	degrees API	Permit Application	
Facility Model Number.....	4	dimensionless	User Input	
No. of Steam Drive Wells with Control Vents.....	0	wells	Permit Application	
No. of Steam Drive Wells with Uncontrolled Vents.....	0	wells	Permit Application	
No. of Cyclic Steam Drive Wells with Control Vents.....	0	wells	Permit Application	
No. of Cyclic Steam Drive Wells with Uncontrolled Vents.....	0	wells	Permit Application	
Composite Valve and Fitting Emission Factor.....	6.6409	lb/day-well	Table Below	
Emission Factor Based on Lease Model				
Lease Model	Valve Without Ethane	Fitting Without Ethane	Composite Without Ethane	Units
1	1.4921	0.9947	2.4868	lbs/day-well
2	0.6999	0.6092	1.3091	lbs/day-well
3	0.0217	0.0673	0.0890	lbs/day-well
4	4.5090	2.1319	6.6409	lbs/day-well
5	0.8628	1.9424	2.8053	lbs/day-well
6	1.7079	2.5006	4.2085	lbs/day-well
<p>Model #1: Number of wells on lease is less than 10 and the GOR is less than 500. Model #2: Number of wells on lease is between 10 and 50 and the GOR is less than 500. Model #3: Number of wells on lease is greater than 50 and the GOR is less than 500. Model #4: Number of wells on lease is less than 10 and the GOR is greater than 500. Model #5: Number of wells on lease is between 10 and 50 and the GOR is greater than 500. Model #6: Number of wells on lease is greater than 50 and the GOR is greater than 500.</p> <p>Reference: CARB speciation profiles numbers 529, 530, 531, 532</p>				
CARB KVB ROC Potential to Emit				
Emission Source	lb/day	TPY		
Valves and Fittings ^a	1.33	0.24		
Sumps, Wastewater Tanks and Well Cellars ^b	0.00	0.00		
Oil/Water Separators ^b	0.00	0.00		
Pumps/Compressors/Well Heads ^a	0.02	0.00		
Enhanced Oil Recovery Fields	0.00	0.00		
Total ROC Potential to Emit^c	1.34	0.25		
<i>Notes:</i>				
a. Emissions amount reflect an 80% reduction due to Rule 331 implementation.				
b. Emissions reflect control efficiencies where applicable.				
c. Due to rounding, the totals may not appear correct				

Unit Type Emission Calculations

Pumps, Compressors, and Well Heads Uncontrolled Emission Calculations

	Value	Units	Reference
Number of Wells	1	wells	Permit Application
Wellhead Emissions	0.0097	lb-ROC/day	Calculated Value
FHC from Pumps	0.0039	lb-ROC/day	Calculated Value
FHC from Compressors	0.0679	lb-ROC/day	Calculated Value
Total ROC Emissions	0.08	lb-ROC/day	Calculated Value

Well Cellars, Sumps, Covered Wastewater Tanks, and Oil/Water Separators

Separation Level	Heavy Oil Service	Light Oil Service	Units
Primary	0.0941	0.1380	lb ROC/ft ² -day
Secondary	0.0126	0.0180	lb ROC/ft ² -day
Tertiary	0.0058	0.0087	lb ROC/ft ² -day

WELL CELLARS			Level of Separation		
Equipment Type	Number	Total Area (ft ²)	Primary	Secondary	Tertiary
Well Cellars ^(a)	0	0	0.00		
				0.00	
					0.00
Daily ROC Emissions (lb/day)			0.00	0.00	0.00

Notes:

a. A 70% reduction is applied for implementation of Rule 344 (Sumps, Pits, and Well Cellars).

COVERED WASTEWATER TANKS			Level of Separation		
Equipment Type	Number	Total Area (ft ²)	Primary	Secondary	Tertiary
Covered Wastewater Tank ^(a)	0	0	0.00		
	0	0		0.00	
	0	0			0.00
Daily ROC Emissions (lb/day)			0.00	0.00	0.00

Notes:

a. A 85% reduction is applied.

COVERED WASTEWATER TANK WITH VAPOR RECOVERY			Level of Separation		
Equipment Type	Number	Total Area (ft ²)	Primary	Secondary	Tertiary
Covered Wastewater Tank with Vapor Recovery ^(a)	0	0	0.00		
	0	0		0.00	
	0	0			0.00
Daily ROC Emissions (lb/day)			0.00	0.00	0.00

Notes:

a. A 95% reduction is applied.

OIL AND WATER SEPARATORS		Type		
Equipment Type	Total Throughput (MMgal)	Covered	Vapor Recovery	Open Top
Oil and Water Separators ^{(a)(b)}	0	0.00		
	0		0.00	
	0			0.00
Daily ROC Emissions (lb/day)		0.00	0.00	0.00

Notes:

a. A 85% reduction is applied for covered, 85% for connected to vapor recovery, and 0% for open top.
 b. Emission Factor of 560 lb-ROC/MMgal

Processed By: JJM

Date: March 2024

10.3 Fee Calculations



air pollution control district
SANTA BARBARA COUNTY

FEE STATEMENT
PT-70/Reeval No. 09035 - R10
FID: 03323 Rice Ranch Lease (Orcutt Hill) / SSID: 02667

Permit Fee

Minimum Reeval Fee \$535.00

Fee Statement Grand Total = \$535

Notes:

- (1) Fee Schedule Items are listed in District Rule 210, Fee Schedule "A".
- (2) The term "Units" refers to the unit of measure defined in the Fee Schedule.

10.4 IDS Database Emission Tables

Table 1
Permitted Potential to Emit (PPTE)

	NO _x	ROC	CO	SO _x	TSP	PM ₁₀
<i>PTO 9035 – Rice Ranch Lease</i>						
lb/day		1.35				
tons/year		0.25				

Table 2
Facility Potential to Emit (FPTE)

	NO _x	ROC	CO	SO _x	TSP	PM ₁₀
<i>PTO 9035 – Rice Ranch Lease</i>						
lb/day		1.35				
tons/year		0.25				

Table 3
Federal PT-70 Facility Potential to Emit (PT 70 FPTE)

	NO _x	ROC	CO	SO _x	TSP	PM ₁₀
<i>PTO 9035 – Rice Ranch Lease</i>						
lb/day		0.01				
tons/year		0.01				

Table 4
Stationary Source Emissions

	NO _x	ROC	CO	SO _x	TSP	PM _{10/2.5}
<i>PCEC - Orcutt Hill and Casmalia Oil Fields Stationary Source</i>						
lbs/day	1,362.37	3,911.52	2,723.34	204.41	91.35	91.35
tons/year	169.19	221.12	337.02	32.16	12.77	12.77

10.5 Equipment List

PT-70/Reeval 09035 R10 / FID: 03323 Rice Ranch Lease (Orcutt Hill) / SSID: 02667

A PERMITTED EQUIPMENT

1 Valves & Fittings

<i>Device ID #</i>	003080	<i>Device Name</i>	Valves & Fittings
<i>Rated Heat Input</i>		<i>Physical Size</i>	1.00 Total Well
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>			
<i>Device Description</i>	Valves, fittings and flanges, not directly associated with other permitted equipment items, which emit fugitive hydrocarbon emissions.		

2 Oil and Gas Wellheads

<i>Device ID #</i>	003081	<i>Device Name</i>	Oil and Gas Wellheads
<i>Rated Heat Input</i>		<i>Physical Size</i>	1.00 Total Well
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>			
<i>Device Description</i>	This well is not equipped with a cellar.		

10.6 Permitted Wells Table

CA Well Results [Active Wells only]

County:Santa Barbara 083 Field:Orcutt Operator Code:B6127 Lease:Union-Getty Rice Ranch

District	Operator Name	Field Name	Field Code	API #	Lease Name	Well	Well Status	Pool WellType	Section	Township	Range	Base Meridian	Area Code	Area Name
3	Pacific Coast Energy Company LP	Orcutt	524	08321714	Union-Getty Rice Ranch	1	I	OG	24	09N	34W	SB	06	Main

