



MAR 2 0 2014

Mr. Raymond Rodriguez Occidental of Elk Hills Inc 10800 Stockdale Hwy Bakersfield, CA 93311

Re: Proposed ATC / Certificate of Conformity (Significant Mod) District Facility # S-6848 Project # 1133800

Dear Mr. Rodriguez:

Enclosed for your review is the District's analysis of an application for Authority to Construct for the facility identified above. You requested that a Certificate of Conformity with the procedural requirements of 40 CFR Part 70 be issued with this project. The project authorizes the installation of new tanks, induced gas floatation vessels, Free Water Knockouts (FWKOs), heater treaters, and a produced gas flare.

After addressing all comments made during the 30-day public notice and the 45day EPA comment periods, the District intends to issue the Authority to Construct with a Certificate of Conformity. Please submit your comments within the 30-day public comment period, as specified in the enclosed public notice. Prior to operating with modifications authorized by the Authority to Construct, the facility must submit an application to modify the Title V permit as an administrative amendment, in accordance with District Rule 2520, Section 11.5.

If you have any questions, please contact Mr. Leonard Scandura, Permit Services Manager, at (661) 392-5500.

Thank you for your cooperation in this matter.

Sincerely,

David Warner Director of Permit Services

DW:RE/st

Enclosures

cc: Mike Tollstrup, CARB (w/enclosure) via email cc: Gerardo C. Rios, EPA (w/enclosure) via email

> Seyed Sadredin Executive Director/Air Pollution Control Officer

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San Joaquin Valley Air Pollution Control District Authority to Construct Application Review

New Tanks, Heater Treaters, FWKOs, Induced Gas Floatation Units, and Flare

Facility Name:	Occidental of Elk Hills Inc	Date:	March 17, 2014
Mailing Address:	10800 Stockdale Hwy	Engineer:	Richard Edgehill
	Bakersfield, CA 93311	Lead Engineer:	Allan Phillips
Contact Person:	Raymond Rodriquez		
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E-Mail:	raymond_rodriquez@oxy.com		
Application #:	S-6848-15-2, '-16-0 through '-32-0	0	
Project #:	S-1133800		
Deemed Complete:	February 25, 2014		

I. Proposal

Occidental of Elk Hills Inc (OEHI) has requested an Authorities to Construct (ATC) for a the installation of new tanks, Induced Gas Floatation Units, Free Water Knockouts (FWKOs), heater treaters, produced gas flare, and a new sulfur removal system at a new production facility. The tanks and vessels will be served by the vapor control system authorized under Thermally Enhanced Oil Recovery (TEOR) operation ATC S-6848-15-0.

TEOR operation permit S-6848-15 will be revised to list the new tanks, vessels, and sulfa-treat system as sharing the vapor control system. This change is not a NSR modification as it is consistent with FYI 111 Category 11.

Further note that tank vapors are expected to contain no more than 10% by wt VOCs. Pursuant to District Policy SSP-2015, VOC emissions are not assessed for vapor components handling vapors with \leq 10% VOCs by wt. Therefore, there is no increase in facility VOC emissions from the tanks.

The project results in an increase in combustion emissions from the flare triggering a Federal Major Modification. BACT, offsets, and public notice are required.

Facilities S-6848 and S-1327 constitute one major stationary source. Facility S-6848 was issued a Title V Permit on December 31, 2012. The project is a Federal Major Modification and therefore it is classified as a <u>Title V Significant Modification</u> pursuant to Rule 2520, Section 3.20, and can be processed with a Certificate of Conformity (COC). Since the facility has specifically requested that this project be processed in that manner, the 45-day EPA comment period will be satisfied prior to the issuance of the Authority to Construct. OEHI must apply to administratively amend their Title V Operating Permit to include the requirements of the ATC(s) issued with this project.

Disposition of Outstanding ATCs

ATCs S-6848-15-0 and '-15-1 will be implemented prior to the proposed ATCs and is included in **Attachment I**.

II. Applicable Rules

Rule 2020 Rule 2201 Rule 2410 Rule 2520 Rule 4001	Exemptions (8/18/11) New and Modified Stationary Source Review Rule (4/21/11) Prevention of Significant Deterioration (6/16/11) Federally Mandated Operating Permits (6/21/01) New Source Performance Standards, Subpart Kb (Amended 4/14/99) - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) is not applicable. This subpart does not apply to vessels with a design capacity $\leq 1,589.874 \text{ m}^3$ ($\leq 420,000 \text{ gallons}$) used for petroleum or condensate stored, processed, or treated prior to custody transfer. The capacities of the proposed tanks are $\leq 420,000 \text{ gallons}$, and they store crude oil prior to custody transfer; therefore, this subpart does not apply to the tanks in this project.
Rule 4101 Rule 4102 Rule 4201 Rule 4401	Subpart OOOO (Adopted 8/16/2012) - Standards of Performance for Crude Oil and Natural Gas Production, Transmission, and Distribution Visible Emissions (2/17/05) Nuisance (12/17/92) Particulate Matter Concentration (12/17/92) Steam Enhanced Crude Oil Production Well Vents (6/16/11)
	Flares (6/15/06) Storage of Organic Liquids (5/19/05) Sulfur Compounds (12/17/92) Health Risk Assessment School Notice ode 21000-21177: California Environmental Quality Act (CEQA) Regulations, Title 14, Division 6, Chapter 3, Sections 15000-15387: CEQA

III. Project Location

The new equipment will be located within OEHI's Heavy Oil Western Stationary Source located at SE Section 35, T 30S, R 22E. The equipment is not located within 1,000 feet of the outer boundary of a K-12 school. Therefore, the public notification requirement of California Health and Safety Code 42301.6 is not applicable to this project.

A project location map is included in Attachment II.

IV. Process Description

OEHI operates permitted equipment within their Heavy Oil Western stationary source (S-1327 and S-6848), utilized for the thermally enhanced production of crude oil and natural gas. In

thermally enhanced oil recovery (TEOR) operations natural gas is combusted in steam generators to produce steam for injection into heavy crude oil bearing strata via injection wells to reduce viscosity of the crude oil, thereby facilitating thermally enhanced oil production.

The project authorizes new tanks, heater treaters, FWKOs, Induced Air Floatation Units, produced gas flare, and a new sulfur removal system. The tanks and vessels are not assessed emissions as they will handle vapors containing no more than 10% by wt. VOCs.

The following equipment will be added to the existing facility:

- Two (2) 746 BBL (31,332 gallons) FWKOs connected to VCS listed in PTO S-6848-8 (S-6848-16, 17)
- Two (2) 580 BBL (24,360 gallons) heater treaters each with permit-exempt (up to 5.0 MMBtu/hr) burners connected to CVR S-6848-15 (S-6848-18 and '-19)
- One (1) 5,000 BBL organic liquid storage tank connected to CVR listed in S-6848-15 (S-6848-20)
- Four (4) 5,000 BBL organic liquid storage tanks connected to CVR listed in S-6848-15 (S-6848-21 through '-24)
- Two (2) 2,000 BBL organic liquid storage tanks connected to CVR listed in S-6848-15 (S-6848-25 and '-26)
- One (1) 1,000 BBL organic liquid storage tank connected to CVR listed in S-6848-15 (S-6848-27)
- Two (2) 26,000 gallon Induced Air Floatation Vessels connected to CVR listed in S-6848-15 (S-6848-28 and '-29)
- One (1) 500 bbl organic liquid storage tank connected to CVR listed in S-6848-15 (S-6848-30)
- One (1) 1,000 BBL organic liquid storage tank connected to CVR listed in S-6848-15 (S-6848-31)
- One (1) 1.2 MMscfd produced gas flare (S-6848-32)
- One (1) new sulfur removal system connected to CVR listed in S-6848-15

The flare will be limited to 720 hours operation per year.

Vapors collected in CVR S-6848-15 will be used as supplemental fuel for the firing of steam generators, be sent to permit exempt equipment or be sent to a flare. Vapors sent to the flare will be treated as necessary to remove sulfur (to 15 gr S/100 scf) using a new Sulfa-Treat system listed on S-6848-15.

A process diagram is included in Attachment III.

V. Equipment Listing

Pre-Project Equipment Description:

S-6848-15-1: MODIFICATION OF THERMALLY ENHANCED OIL RECOVERY OPERATION WITH 200 STEAM ENHANCED WELLS OPERATING WITH EITHER A WELLHEAD VAPOR CONTROL SYSTEM OR CLOSED CASING VENTS WITH PRODUCED FLUIDS ROUTED TO FRONT LINE TANKS ON A VAPOR CONTROL SYSTEM: LIST AUTHORIZED GAS DISPOSAL DEVICES AS STEAM GENERATORS LISTED ON S-6848-12 AND S-1327-32, PERMIT EXEMPT EQUIPMENT, OR THE FLARE LISTED ON S-6848-34

Proposed Modification:

S-6848-15-2: MODIFICATION OF THERMALLY ENHANCED OIL RECOVERY OPERATION WITH 200 STEAM ENHANCED WELLS OPERATING WITH EITHER A WELLHEAD VAPOR CONTROL SYSTEM OR CLOSED CASING VENTS WITH PRODUCED FLUIDS ROUTED TO FRONT LINE TANKS ON A VAPOR CONTROL SYSTEM: LIST S-6848-16 THROUGH '-31 AS CONNECTED TO VAPOR CONTROL SYSTEM, ADD ONE NEW SULFUR REMOVAL SYSTEM CONNECTED TO VAPOR CONTROL SYSTEM

Post Project Equipment Description:

S-6848-15-2: THERMALLY ENHANCED OIL RECOVERY OPERATION WITH 200 STEAM ENHANCED WELLS OPERATING WITH EITHER A WELLHEAD VAPOR CONTROL SYSTEM OR CLOSED CASING VENTS WITH PRODUCED FLUIDS ROUTED TO FRONT LINE TANKS ON A VAPOR CONTROL SYSTEM:LIST S-6848-16 THROUGH '-31 AS CONNECTED TO VAPOR CONTROL SYSTEM

S-6848-16-0 and '-17-0: 746 BBL (31,332 GALLONS) FWKO VENTED TO VAPOR RECOVERY SYSTEM LISTED ON TEOR PERMIT S-6848-15

S-6848-18-0 and '-19-0: 580 BBL (24,360 GALLONS) HEATER TREATER WITH PERMIT EXEMPT BURNER VENTED TO VAPOR RECOVERY SYSTEM LISTED ON TEOR PERMIT S-6848-15

S-6848-20-0: 5000 BBL ORGANIC LIQUID STORAGE TANK VENTED TO VAPOR RECOVERY SYSTEM LISTED ON TEOR PERMIT S-6848-15

S-6848-21-0 THRU '-24-0: 5000 BBL ORGANIC LIQUID STORAGE TANK VENTED TO VAPOR RECOVERY SYSTEM LISTED ON TEOR PERMIT S-6848-15

S-6848-25-0 AND '-26: 2000 BBL ORGANIC LIQUID STORAGE TANK VENTED TO VAPOR RECOVERY SYSTEM LISTED ON TEOR PERMIT S-6848-15

S-6848-27-0: 1000 BBL ORGANIC LIQUID STORAGE TANK VENTED TO VAPOR RECOVERY SYSTEM LISTED ON TEOR PERMIT S-6848-15

S-6848-28-0 AND '-29-0: 26,000 GALLON INDUCED GAS FLOATATION VESSEL VENTED TO VAPOR RECOVERY SYSTEM LISTED ON TEOR PERMIT S-6848-15

S-6848-30-0: 500 BBL ORGANIC LIQUID STORAGE TANK VENTED TO VAPOR RECOVERY SYSTEM LISTED ON TEOR PERMIT S-6848-15

S-6848-31-0: 1000 BBL ORGANIC LIQUID STORAGE TANK VENTED TO VAPOR RECOVERY SYSTEM LISTED ON TEOR PERMIT S-6848-15

S-6848-32-0: 1.2 MMSCF/DAY JOHN ZINK AIR ASSIST FLARE (OR EQUIVALENT)

As per District policy APR 1035 <u>Flexibility in Equipment Descriptions in ATCs</u>, some flexibility in the final specifications of the equipment is requested and will be allowed as stated in the following ATC conditions:

The permittee shall obtain written District approval for the use of any equivalent equipment not specifically approved by this Authority to Construct. Approval of the equivalent equipment shall be made only after the District's determination that the submitted design and performance of the proposed alternate equipment is equivalent to the specifically authorized equipment. [District Rule 2201] Y

The permittee's request for approval of equivalent equipment shall include the make, model, manufacturer's maximum rating, manufacturer's guaranteed emission rates, equipment drawing(s), and operational characteristics/parameters. [District Rule 2201] Y

Alternate equipment shall be of the same class and category of source as the equipment authorized by the Authority to Construct. [District Rule 2201] Y

No emission factor and no emission shall be greater for the alternate equipment than for the proposed equipment. No changes in the hours of operation, operating rate, throughput, or firing rate may be authorized for any alternate equipment. [District Rule 2201] Y

VI. Emission Control Technology Evaluation

Tanks and Vessels '-16 thru '-31

The new tanks will be served by recently authorized casing vent recovery (CVR) system S-6848-15) equipped with 99% vapor control as reflected by leak-free permit requirements.

Flare '-32

A new air-assist flare will be designed to incinerate produced/vapor control system gas in a safe manner and without creating a nuisance. Engineered flares are designed to achieve a greater than 98% destruction efficiency of VOC and H₂S and to operate without visible emissions. Steam assist promotes complete combustion of gases.

The flare is expected to meet FYI 83 emissions limits for NOx of 0.068 lb/MMBtu, VOC 0.063 lb/MMBtu, PM10 0.021 lb/MMBtu, and CO of 0.37 lb/MMBtu. The BACT requirement for PM10 implies smokeless operation.

The sulfur content of the flared gas is restricted to 15 gr S/100 scf by permit condition and will be equipped with a pre-combustion scrubbing system (Sulfa-Treat).

VII. General Calculations

A. Assumptions

• The facility operates 24 hours per day, 7 days per week, and 52 weeks per year.

Flare '-32-0

- Sulfur content of hydrocarbon vapors is 15 grain/100dscf (flare supplemental application form)
- Flared gas heating value: 880 Btu/scf (flare supplemental application form)
- Flared gas flow rate 1.2 MMscf/day (44.0 MMBtu/hr, 1,056 MMBtu/day)
- Annual hours of operation: 720 hr/yr (44.0 x 720) = <u>31,680 MMBtu/yr</u>

Tanks, Vessels, and TEOR operation '-15 thru '-31

VOC content of produced gas and tank vapors \leq 10% by weight. In accordance with District SSP 2015 policy "Quantifying Fugitive VOC Emissions at Petroleum and SOCMI Facilities", VOC emissions are not assessed to piping and components handling vapor streams with a VOC content of 10% and therefore fugitive emissions components do not emit VOCs.

The change to S-6848-15 is not a NSR modification and therefore calculations are not required. PE2 will be restated for inclusion in the PAS emissions profile.

For estimation of HRA Emissions, the following component counts were provided by applicant (**Attachment IV**):

Tanks and Vessels '-16 thru '-31

Valves	Others	Connectors	Flanges
10	10	0	30

District Policy FYI-283 (6/16/16) " Quantifying Fugitive Emissions in Petroleum and SOCMI Operations for use in Risk Management Review (RMR)" states that even for operations handling vapors containing less than 10% VOCs by weight an assessment of new components installed and a gas analysis that indicates the % VOCs content by weight must be provided. "A reasonable estimate of actual VOC emissions can be determined using the average emission factors from policy SSP-2015 (which may overestimate emissions from components subject to a stringent inspection and maintenance program, such as those in the District) and the VOC content as a percentage of the total gas stream (which may under estimate the actual emissions from such components). Taken together, these two assumptions are assumed to provide a reasonable estimate of actual emissions from such components."

For purposes of performing the RMR, VOC emissions are estimated as follows:

VOC emissions = Sum of (qty component type * average EPA emission factor * percent VOC content / 100)

Gas Analysis VOC content of tank, vessel vapors = <u>0.69 wt%</u> (Attachment V)

16 x 7.7 lb/day ('-16 thru '-31) = 123.2 lb/day 123.2 lb HCs/day x 0.69/100 = <u>0.85 lb VOCs/day (310 lb VOCs/yr)</u>

B. Emission Factors

Pollutant	Emission Factor (Ib/MMBtu)	Source
NOx	0.068	FYI-83
SOx	0.0504*	
PM10	0.008	FYI-83-BACT
CO	0.37	FYI-83
VOC	0.0063	FYI-83

*15 g S/100 scf x scf/0.000850 MMBtu x lb S/7000 gr x 2 lb SOx/lbS

C. Calculations

1. Pre-Project Potential to Emit (PE1)

<u>S-6848-16 thru '-31</u> Since these are new emissions units, PE1 = 0 for all pollutants.

2. Post Project Potential to Emit (PE2)

<u>S-6848-15, '-16 thru '-31</u> VOCs: 0 lb/day, 0 lb/yr (each)

	Daily PE2						
Pollutant	EF2 (Ib/MMBtu)	Heat Input (MMBtu/hr)	Operating Schedule (hr/day)	Daily PE2 (lb/day)			
NOx	0.0680	44	24	71.8			
SOx	0.05042	44	24	53.2			
PM ₁₀	0.0080	44	24	8.4			
CO	0.370	44	24	390.7			
voc	0.0630	44	24	66.5			
· · · · · · · · · · · · · · · · · · ·	Annual PE2						
Pollutant	EF2 (lb/MMBtu)	Heat Input (MMBtu/hr)	Operating Schedule (hr/year)	Annual PE2 (lb/year)			
Pollutant NO _X			Operating				
	(lb/MMBtu)	(MMBtu/hr)	Operating Schedule (hr/year)	(lb/year)			
NO _x	(lb/MMBtu) 0.068	(MMBtu/hr) 44	Operating Schedule (hr/year) 720	(lb/year) 2,154			
NO _X SO _X	(lb/MMBtu) 0.068 0.05042	(MMBtu/hr) 44 44	Operating Schedule (hr/year) 720 720	(lb/year) 2,154 1,597			

S-6848-32

Emissions Profiles are included in Attachment VI.

3. Pre-Project Stationary Source Potential to Emit (SSPE1)

Pursuant to District Rule 2201, the SSPE1 is the Potential to Emit (PE) from all units with valid Authorities to Construct (ATC) or Permits to Operate (PTO) at the Stationary Source and the quantity of Emission Reduction Credits (ERC) which have been banked since September 19, 1991 for Actual Emissions Reductions (AER) that have occurred at the source, and which have not been used on-site. The facility has no ERCs for on-site reductions.

SSPE1 (Ib/year)							
Permit Unit	NOx	SOx	PM ₁₀	CO	VOC		
S-6848-7					0		
S-6848-8					73		
S-6848-9			_		0		
S-6848-10		······································	· · · · · · · · · · · · · · · · · · ·		0		
S-6848-11					8		
S-6848-12	6,329	2,122	3,723	16,381	4,468		
S-1327 SSPE*	142,128	48,695	61,135	447,927	420,269		
SSPE1	148,457	50,817	64,858	464,308	424,818		

*project S-1327, 1123645 SSPE2

4. Post Project Stationary Source Potential to Emit (SSPE2)

Pursuant to District Rule 2201, the SSPE2 is the PE from all units with valid ATCs or PTOs at the Stationary Source and the quantity of ERCs which have been banked since September 19, 1991 for AER that have occurred at the source, and which have not been used on-site.

SSPE2 (lb/year)						
Permit Unit	NO _X	SOx	PM ₁₀	CO	VOC	
SSPE1	148,457	50,817	64,858	464,308	424,818	
S-6848-32	2,154	1,597	253	11,722	1,996	
SSPE2	150,611	52,414	65,111	476,030	426,814	

5. Major Source Determination

Rule 2201 Major Source Determination:

Pursuant to District Rule 2201, a Major Source is a stationary source with a SSPE2 equal to or exceeding one or more of the following threshold values. For the purposes of determining major source status the following shall not be included:

- any ERCs associated with the stationary source
- Emissions from non-road IC engines (i.e. IC engines at a particular site at the facility for less than 12 months)
- Fugitive emissions, except for the specific source categories specified in 40 CFR 51.165

Rule 2201 Major Source Determination (lb/year)								
NO _X SO _X PM ₁₀ CO VOC								
Facility emissions pre-project	148,457	50,817	64,858	464,308	424,818			
Facility emissions – post project	150,611	52,414	65,111	476,030	426,814			
Major Source Threshold	20,000	140,000	140,000	200,000	20,000			
Major Source?	Yes	No	No	Yes	Yes			

As seen in the table above, the facility is an existing Major Source for NOx, CO, and VOC and is not becoming a Major Source for SOx and PM10 as a result of this project.

Rule 2410 Major Source Determination:

The facility or the equipment evaluated under this project is not listed as one of the categories specified in 40 CFR 52.21 (b)(1)(i). Therefore the following PSD Major Source thresholds are applicable.

PSD Major Source Determination (tons/year)							
NO2 VOC SO2 CO PM PM10 CO2e							CO2e
Estimated Facility PE before Project Increase	74	212	25	232	32	32	>100,000
PSD Major Source Thresholds 250 250 250 250 250 250 100,00					100,000		
PSD Major Source ? (Y/N)	N	N	N	N	N	N	Y

*project 1123645 GHG calculations

As shown above, the facility is an existing major source for PSD for at least one pollutant. Therefore the facility is an existing major source for PSD.

6. Baseline Emissions (BE)

The BE calculation (in lbs/year) is performed pollutant-by-pollutant for each unit within the project to calculate the QNEC, and if applicable, to determine the amount of offsets required.

Pursuant to District Rule 2201, BE = PE1 for:

- Any unit located at a non-Major Source,
- Any Highly-Utilized Emissions Unit, located at a Major Source,
- Any Fully-Offset Emissions Unit, located at a Major Source, or
- Any Clean Emissions Unit, located at a Major Source.

otherwise,

BE = Historic Actual Emissions (HAE), calculated pursuant to District Rule 2201.

Since these are new emissions units, BE = PE1 = 0 for all pollutants.

7. SB 288 Major Modification

SB 288 Major Modification is defined in 40 CFR Part 51.165 as "any physical change in or change in the method of operation of a major stationary source that would result in a significant net emissions increase of any pollutant subject to regulation under the Act."

The source is non-major for SOx and PM10 and therefore the project is not a SB288 Major Modification for SOx and PM10.

Since this facility is a major source for NOx, PM10 and VOC, the project's PE2 is compared to the SB 288 Major Modification Thresholds in the following table in order to determine if the SB 288 Major Modification calculation is required.

	SB 288 Major Modification Thresholds						
Pollutant Project PE2 Threshold SB 288 Major Modification (lb/year) (lb/year) Calculation Required?							
NO _x	2,154	50,000	No				
VOC	1,996	50,000	No				

Since none of the SB 288 Major Modification Thresholds are surpassed with this project, this project does not constitute an SB 288 Major Modification.

8. Federal Major Modification

Since this facility is not a Major Source for SOx and PM10, this project does not constitute a Federal Major Modification for these air contaminants.

For new emissions units, the increase in emissions is equal to the PE2 for each new unit included in this project.

The project's combined total emission increases (except for fugitive emissions) are compared to the Federal Major Modification Thresholds in the following table.

Federal	Major Modification Th	resholds for Emiss	sion Increases
Pollutant	Total Emissions Increases (lb/yr)	Thresholds (lb/yr)	Federal Major Modification?
NO _x *	2,154	0	Yes
VOC*	1,996	0	Yes

*If there is any emission increases in NO_x or VOC, this project is a Federal Major Modification and no further analysis is required.

Since there is an increase in NO_x and VOC emissions, this project constitutes a Federal Major Modification, and no further analysis is required.

9. Rule 2410 – Prevention of Significant Deterioration (PSD) Applicability Determination

Rule 2410 applies to pollutants for which the District is in attainment or for unclassified, pollutants. The pollutants addressed in the PSD applicability determination are listed as follows:

- NO2 (as a primary pollutant)
- SO2 (as a primary pollutant)
- CO
- PM
- PM10
- Greenhouse gases (GHG): CO2, N2O, CH4, HFCs, PFCs, and SF6

The first step of this PSD evaluation consists of determining whether the facility is an existing PSD Major Source or not (See Section VII.C.5 of this document).

In the case the facility is an existing PSD Major Source, the second step of the PSD evaluation is to determine if the project results in a PSD significant increase.

In the case the facility is NOT an existing PSD Major Source but is an existing source, the second step of the PSD evaluation is to determine if the project, by itself, would be a PSD major source.

In the case the facility is new source, the second step of the PSD evaluation is to determine if this new facility will become a new PSD major Source as a result of the project and if so, to determine which pollutant will result in a PSD significant increase.

I. Project Location Relative to Class 1 Area

As demonstrated in the "PSD Major Source Determination" Section above, the facility was determined to be a existing major source for PSD. Because the project is not located within 10 km of a Class 1 area – modeling of the emission increase is not required to determine if the project is subject to the requirements of Rule 2410.

II. Significance of Project Emission Increase Determination

a.Potential to Emit of attainment/unclassified pollutant for New or <u>Modified</u> Emission Units vs PSD Significant Emission Increase Thresholds

As a screening tool, the potential to emit (except for fugitive emissions) from all new and modified units is compared to the PSD significant emission increase thresholds, and if total potential to emit from all new and modified units is below this threshold, no futher analysis will be needed.

PSD Significant Emission Increase Determination: Potential to Emit (tons/year)								
NO2 SO2 CO PM PM10 CO2e								
Total PE from New and Modified Units	1.1	0.8	5.9	0.1	0.1	1,853		
PSD Significant Emission Increase Thresholds	40	40	100	25	15	75,000		
PSD Significant Emission Increase?	N	N	N	N	N	N		

¹ CO2 Emissions	= 31,680 MMBtu/yr x 116.89 lb/MMBtu
	≈ 3,703,075 lb-CO2(eq)/yr
CH4 Emissions	= 31,680 MMBtu/yr x 0.002 lb/MMBtu x 21 lb-CO2(eq) per lb-CH4
	= 1,331 lb-CO2(eq)/yr
N2O Emissions	= 31,680 MMBtu/yr x 0.0002 lb/MMBtu x 310 lb-CO2(eq) per lb-N2O = 1,964 lb-CO2(eq)/yr

Total = 3,706,370 lb-CO2(eq)/yr/2000 lb/short ton

= 1,853 tons-CO2(eq)/year

As demonstrated above, because the project has a total potential to emit from all new and modified emission units below the PSD significant emission increase thresholds, this project is not subject to the requirements of Rule 2410 due to a significant emission increase and no further discussion is required.

10. Quarterly Net Emissions Change (QNEC)

The QNEC is calculated solely to establish emissions that are used to complete the District's PAS emissions profile screen. As the Permit units are new QNEC = PE2/4.

VIII. Compliance

Rule 2020 Exemptions

Heater Treater Burner

The heater treater (S-6848-18 and '-19) burners are exempt pursuant to Section 6.1.1 which is applicable to

"Steam generators, steam superheaters, water boilers, water heaters, steam cleaners, and closed indirect heat transfer systems that have a maximum input heat rating of 5,000,000 Btu per hour (gross) or less and is equipped to be fired exclusively with:

6.1.1.1 Natural gas containing no more than five (5) percent by weight hydrocarbons heavier than butane and no more than 1.0 grain of total sulfur per 100 standard cubic feet of gas"

The operation is relatively new and no information on the sulfur content and hydrocarbon composition is currently available. However, applicant has stated that the combusted gas is expected to meet the above requirement. The following conditions will be included on ATCs S-6848-18-0 and '-19-0:

Exempt heater treater burner shall be fired only on propane or natural gas/vapor containing no more than five (5) percent by weight hydrocarbons heavier than butane and no more than 1.0 grain of total sulfur per 100 standard cubic feet of gas. [District Rule 2020] Y

Permittee shall maintain records of the hydrocarbon and sulfur contents of natural gas/vapor to qualify for permit exemption of heater treater burner. [District Rule 1070 and 2020] Y

The heater threater burners will be PEERS and will meet the requirements of Rule 4307 (applicant email March 13, 2014).

Compliance is expected.

Rule 2201 New and Modified Stationary Source Review Rule

A. Best Available Control Technology (BACT)

1. BACT Applicability

BACT requirements are triggered on a pollutant-by-pollutant basis and on an emissions unit-by-emissions unit basis. Unless specifically exempted by Rule 2201, BACT shall be required for the following actions*:

- a. Any new emissions unit with a potential to emit exceeding two pounds per day,
- b. The relocation from one Stationary Source to another of an existing emissions unit with a potential to emit exceeding two pounds per day,
- c. Modifications to an existing emissions unit with a valid Permit to Operate resulting in an AIPE exceeding two pounds per day, and/or
- d. Any new or modified emissions unit, in a stationary source project, which results in an SB 288 Major Modification or a Federal Major Modification, as defined by the rule.

*Except for CO emissions from a new or modified emissions unit at a Stationary Source with an SSPE2 of less than 200,000 pounds per year of CO.

a. New emissions units – PE > 2 lb/day

As seen in Section VII.C.2 above, the applicant is proposing to install a new 44.0 MMBtu/hr steam-assist flare with a PE greater than 2 lb/day for NO_X, SO_X, PM10, CO, and VOC. The flare is a VOC control device and not a new emissions unit and therefore BACT is not triggered for new emissions unit purposes.

b. Relocation of emissions units – PE > 2 lb/day

As discussed in Section I above, there are no emissions units being relocated from one stationary source to another; therefore BACT is not triggered.

c. Modification of emissions units – AIPE > 2 lb/day

As discussed in Section I above, there are no modified emissions units associated with this project. Therefore BACT is not triggered.

d. SB 288/Federal Major Modification

As discussed in Section VII.C.7 above, this project is a Federal Major Modification. Therefore BACT is triggered for NO_x , SO_x , PM_{10} , CO, and VOC since the PEs are greater than 0.5 lbs/day.

2. BACT Guideline – See Attachment VII

BACT Guideline 1.4.1, applies to Waste Gas Flare Serving a Tank Vapor Control System

BACT Guideline 1.4.2, applies to Waste Gas Flare – Incinerating Produced Gas

3. Top-Down BACT Analysis

Per Permit Services Policies and Procedures for BACT, a Top-Down BACT analysis shall be performed as a part of the application review for each application subject to the BACT requirements pursuant to the District's NSR Rule.

Pursuant to the attached Top-Down BACT Analysis (see Attachment VIII), BACT has been satisfied with the following (the more stringent requirements of the two BACT Guidelines 1.4.1 and 1.4.2):

- NO_x: Steam-assisted
- SOx: Steam-assisted with smokeless combustion, pilot light fired on process (natural) gas
- PM10: Steam-assisted with smokeless combustion, pilot light fired on process (natural) gas CO: Steam-assisted
- CO: Steam-assisted

VOC: Steam-assisted

B. Offsets

1. Offset Applicability

Offset requirements shall be triggered on a pollutant by pollutant basis and shall be required if the SSPE2 equals to or exceeds the offset threshold levels in Table 4-1 of Rule 2201.

The SSPE2 is compared to the offset thresholds in the following table.

Offset Determination (Ib/year)					
	NOx	SOx	PM ₁₀	CO	VOC
SSPE2	150,611	52,414	65,111	476,030	426,814
Offset Thresholds	20,000	54,750	29,200	200,000	20,000
Offsets calculations required?	Yes	No	Yes	Yes	Yes

2. Quantity of Offsets Required

As seen above, the SSPE2 is greater than the offset thresholds for NO_X PM10, CO, and VOCs. Therefore offset calculations will be required for this project.

The quantity of offsets in pounds per year for NO_X is calculated as follows for sources with an SSPE1 greater than the offset threshold levels before implementing the project being evaluated.

Offsets Required (lb/year) = $(\Sigma[PE2 - BE] + ICCE) \times DOR$, for all new or modified emissions units in the project,

Where,

PE2 = Post Project Potential to Emit, (lb/year)

BE = Baseline Emissions, (lb/year)

ICCE = Increase in Cargo Carrier Emissions, (Ib/year)

DOR = Distance Offset Ratio, determined pursuant to Section 4.8

BE = PE1 for:

- Any unit located at a non-Major Source,
- Any Highly-Utilized Emissions Unit, located at a Major Source,
- Any Fully-Offset Emissions Unit, located at a Major Source, or
- Any Clean Emissions Unit, Located at a Major Source.

otherwise,

BE = HAE

The facility is proposing to install a new emissions unit; therefore BE = 0. Also, there is only one emissions unit associated with this project and there are no increases in cargo carrier emissions; therefore offsets can be determined as follows:

NOx

Offsets Required (lb/year) = ([PE2 – BE] + ICCE) x DOR

The project is a Federal Major Modification and therefore the correct offset ratio for NO_x and VOCs is 1.5:1.

Offsets Required (lb/year) = ([2,154 – 0] + 0) x 1.5 = 2,154 x 1.5 = 3,231 lb NO_x/year

Calculating the appropriate quarterly emissions have been reserved:

<u>1st Quarter</u>	2 nd Quarter	3 rd Quarter	4 th Quarter
808	808	808	808

<u>PM10</u> Offsets Required (lb/year) = ([PE2 – BE] + ICCE) x DOR

The proposed offset ratio is 1.5:1.

Offsets Required (lb/year) = ([253 – 0] + 0) x 1.5 = 253 x 1.5 = 380 lb PM10/year

Calculating the appropriate quarterly emissions have been reserved:

<u>1st Quarter</u>	2 nd Quarter	3rd Quarter	4 th Quarter
95	95	95	95

<u>CO</u>

Section 4.6.1 of Rule 2201 states that emissions offsets are not required for increases in carbon monoxide in attainment areas provided the applicant demonstrates to the satisfaction of the APCO that the Ambient Air Quality Standards are not violated in the areas to be affected, and such emissions will be consistent with Reasonable Further Progress, and will not cause or contribute to a violation of Ambient Air Quality Standards. The District performed an Ambient Air Quality Analysis (discussed later) and determined that this project will not result in or contribute to a violation of an Ambient Air Quality Standard for CO (see **Attachment IX**). Therefore, CO offsets are not required for this project.

<u>VOCs</u>

Offsets Required (Ib/year) = ([PE2 – BE] + ICCE) x DOR

The project is a Federal Major Modification and therefore the correct offset ratio for NO_x and VOCs is 1.5:1.

Offsets Required (lb/year) = ([1,996 – 0] + 0) x 1.5 = 1,996 x 1.5 = 2,994 lb VOCs/year

Calculating the appropriate quarterly emissions have been reserved:

 $\frac{1^{st} \text{ Quarter}}{749} \qquad \frac{2^{nd} \text{ Quarter}}{749} \qquad \frac{3^{rd} \text{ Quarter}}{749} \qquad \frac{4^{th} \text{ Quarter}}{749}$

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The applicant has stated that the facility plans to use ERC certificates S-3580-1 and N-1092-5 to offset the increases in VOC and PM10 emissions associated with this project. The following offset conditions are included on the ATC S-6848-34-0:

Prior to operating equipment under this Authority to Construct, permittee shall surrender emission reduction credits for the following quantities of emissions: NOx: 808 lb/quarter.; PM10: 95 lbs/quarter; VOC: 749 lb/quarter Offsets include the applicable offset ratio specified in Section 4.8 of Rule 2201 (as amended 4/21/11). [District Rule 2201] N

ERC Certificate Numbers N-946-2, S-4084-2, N-769-2, S-3580-1 and N-1092-5 (or certificates split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] N

C. Public Notification

1. Applicability

Public noticing is required for:

- a. New Major Sources, Federal Major Modifications, and SB 288 Major Modifications,
- b. Any new emissions unit with a Potential to Emit greater than 100 pounds during any one day for any one pollutant,
- c. Any project which results in the offset thresholds being surpassed, and/or
- d. Any project with an SSIPE of greater than 20,000 lb/year for any pollutant.

a. New Major Sources, Federal Major Modifications, and SB 288 Major Modifications

New Major Sources are new facilities, which are also Major Sources. Since this is not a new facility, public noticing is not required for this project for New Major Source purposes.

As demonstrated in VII.C.7, this project constitutes a Federal Major Modification; therefore, public noticing for Federal Major Modification purposes is required.

b. PE > 100 lb/day

Applications which include a new emissions unit with a PE greater than 100 pounds during any one day for any pollutant will trigger public noticing requirements. As seen in Section VII.C.2 above, this project does include a new flare which has daily emissions greater than 100 lb CO/day, therefore public noticing for PE > 100 lb/day purposes is required.

c. Offset Threshold

The SSPE1 and SSPE2 are compared to the offset thresholds in the following table.

Offset Thresholds						
Pollutant	SSPE1 (lb/year)	SSPE2 (lb/year)	Offset Threshold	Public Notice Required?		
NOx	>20,000	>20,000	20,000 lb/year	No		
SOx	50,817	52,414	54,750 lb/year	No		
PM ₁₀	>29,200	>29,200	29,200 lb/year	No		
CO	>200,000	>200,000	200,000 lb/year	No		
VOC	>20,000	>20,000	20,000 lb/year	No		

As detailed above, there were no thresholds surpassed with this project; therefore public noticing is not required for offset purposes.

d. SSIPE > 20,000 lb/year

Public notification is required for any permitting action that results in a SSIPE of more than 20,000 lb/year of any affected pollutant. According to District policy, the SSIPE = SSPE2 – SSPE1. The SSIPE is compared to the SSIPE Public Notice thresholds in the following table.

	SSIPE Public Notice Thresholds						
Pollutant	SSPE2	SSPE1	SSIPE	SSIPE Public	Public Notice		
	(lb/year)	(lb/year)	(lb/year)	Notice Threshold	Required?		
NOx	>20,000	>20,000	2,154	20,000 lb/year	No		
SO _x	52,414	50,817	1,597	20,000 lb/year	No		
PM ₁₀	>29,200	>29,200	253	20,000 lb/year	No		
CO	>200,000	>200,000	11,722	20,000 lb/year	No		
VOC	>20,000	>20,000	1,996	20,000 lb/year	No		

As demonstrated above, the SSIPEs for all pollutants were less than 20,000 lb/year; therefore public noticing for SSIPE purposes is not required.

2. Public Notice Action

As discussed above, this project is a Federal Major Modification. Therefore, public notice will be required.

D. Daily Emission Limits (DELs)

DELs and other enforceable conditions are required by Rule 2201 to restrict a unit's maximum daily emissions, to a level at or below the emissions associated with the maximum design capacity. The DEL must be contained in the latest ATC and contained in or enforced by the latest PTO and enforceable, in a practicable manner, on a daily basis. DELs are also required to enforce the applicability of BACT.

For this flare, the DELs are stated in the form of emission factors, the maximum heat input capacity (in MMBtu/hr), daily flare combustion limit, and the maximum operational time of 24 hours per day.

Proposed Rule 2201 (DEL) Conditions:

Tanks/Vessels S-6848-16 thru '-31

Maximum VOC content of tank/vessel vapors shall not exceed 10% by weight. [District Rule 2201] Y

Flare S-6848-32

Gas combusted in flare shall not exceed 1056 MMBtu/day nor 31,680 MMBtu/yr. [District Rule 2201] Y

Sulfur content of flared gas shall not exceed 15 gr S/100 scf. [District Rule 2201] Y

The emissions from the flare shall not exceed any of the following limits: 0.068 lb-NOx/MMBtu, 0.008 lb-PM10/MMBtu, 0.370 lb-CO/MMBtu, or 0.063 lb-VOC/MMBtu. [District Rule 2201] Y

E. Compliance Assurance

1. Source Testing

Pursuant to District Policy APR 1705, source testing is not required to demonstrate compliance with Rule 2201.

2. Monitoring

Monitoring is required to show compliance with sulfur content limits. The following conditions will be listed on the permit:

Testing to demonstrate compliance with the production gas fuel sulfur content limit shall be conducted weekly. Once eight (8) consecutive weekly tests show compliance, the fuel sulfur content testing frequency may be reduced to semiannually. If a semi-annual test shows violation of the sulfur content limit, then weekly testing shall resume and continue until eight (8) consecutive tests show compliance. Once compliance is shown on eight (8) consecutive weekly tests, then testing may return to semi-annually. [District Rule 2201] N

Sulfur content of the production gas being fired in the flare shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or double GC for H2S and mercaptans. [District Rule 1081] N

Operator shall determine fuel hhv at time of sulfur testing by ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rule 2201] N

3. Recordkeeping

Recordkeeping is required to demonstrate compliance with the offset, public notification and daily emission limit requirements of Rule 2201. The following condition(s) are listed on the permit:

Tanks/Vessels S-6848-16 thru '-31

Operator shall conduct and keep records of quarterly sampling of tank/vessel vapors to qualify for exemption from fugitive component counts for components handling fluids with less than 10% VOC by weight. If fluids sampled are less than 10% VOC by weight for eight consecutive quarterly samplings, sampling frequency shall only be required annually. [District Rule 2201] Y

The permittee shall keep accurate records of the dates of inspection and monitoring and the components inspected and monitored. [District Rule 2201] Y

Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date and time of leak detection, and method of detection; 3) Date and time of leak repair, and emission level of recheck after leak is repaired; 4) Method used to minimize the leak to lowest possible level within 8 hours after detection. [District Rules 2201 and 4623] Y

Records of the VOC content of the gas shall be maintained and made readily available for District inspection upon request for a period of 5 years. [District Rules 1070 and 2201] Y

All records of required monitoring data and support information shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 2520, 9.3.2] Y

<u>Flare</u>

The permittee shall maintain monthly averaged daily and annual records of the volume (scf) of the gas flared and annual records of the sulfur content (ppmv) and hhv of the gas flared. [District Rule 2201] Y

Open flares in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the provisions of 40 CFR 60.18. [District Rule 4311] Y

Sulfur content of flared gas shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or double GC for H2S and mercaptans. [District Rule 1081] Y

Permittee shall maintain daily records of volume of gas flared and annual records of the fuel sulfur content. [District Rule 2201] Y

4. Reporting

There are no reporting requirements for Rule 2201.

F. Ambient Air Quality Analysis

Section 4.14.1 of this Rule requires that an ambient air quality analysis (AAQA) be conducted for the purpose of determining whether a new or modified Stationary Source will cause or make worse a violation of an air quality standard. The Technical Services Division of the SJVAPCD conducted the required analysis. Technical Services performed modeling for criteria pollutants CO, NOx, SOx and PM₁₀ from the Flare; as well as a RMR. The flare emission rates used for criteria pollutant modeling were 13.104 lb/hr CO, 2.408 lb/hr NOx, 1.797 lb/hr SOx, and 0.269 lb/hr PM₁₀. The District's Flare Modeling Parameters spreadsheet was used to calculate the flare parameters used during the AAQA analysis.

Refer to Attachment IX of this document for the AAQA summary sheet.

The results from the Criteria Pollutant Modeling are as follows:

Flare	1 Hour	3 Hours	8 Hours.	24 Hours	Annual
CO	Pass	X	Pass	X	X
NO _x	Pass	X	X	X	Pass'
SOx	Pass	Pass	X	Pass	Pass
PM ₁₀				Pass ^z	Pass ²
PM2.5	X	X	X	Pass ²	Pass ²

Criteria Pollutant Modeling Results*

*Results were taken from the attached PSD spreadsheet.

¹The project was compared to the 1-hour NO2 National Ambient Air Quality Standard that became effective on April 12, 2010 using the District's approved procedures.

²The criteria pollutants are below EPA's level of significance as found in 40 CFR Part 51.165 (b)(2).

As shown, the calculated results indicate that this project is not expected to cause or make worse a violation of an air quality standard.

G. Compliance Certification

Section 4.15.2 of this Rule requires the owner of a new Major Source or a source undergoing a Major Modification to demonstrate to the satisfaction of the District that all other Major Sources owned by such person and operating in California are in compliance or are on a schedule for compliance with all applicable emission limitations and standards. As discussed above, the project is a Federal Major Modification, therefore this requirement is applicable. Included in **Attachment X** is OEHI's Statewide Compliance Certification document.

H. Alternate Siting Analysis

The current project occurs at an existing facility. The applicant proposes to modify a flare. Since the project is at the current facility location, the existing site will result in the least possible impact from the project. Alternative sites would involve the relocation and/or construction of various support structures on a much greater scale, and would therefore result in a much greater impact.

Rule 2410 **Prevention of Significant Deterioration (6/16/11)**

As demonstrated above, this project is not subject to the requirements of Rule 2410 due to a insignificant emission increase.

Rule 2520 Federally Mandated Operating Permits

This facility is subject to this Rule, and has received their Title V Operating Permit. Section 3.29 defines a significant permit modification as a "permit amendment that does not qualify as a minor permit modification or administrative amendment."

The project is Federal Major Modification and therefore is also a Title V Significant Modification. As discussed above, the facility has applied for a Certificate of Conformity (COC); therefore, the facility must apply to modify their Title V permit with an administrative amendment, prior to operating with the proposed modifications. Included in **Attachment XI** is OEHI's Title V Compliance Certification form. Continued compliance with this rule is expected.

Rule 4001 New Source Performance Standards

This rule incorporates the New Source Performance Standards from 40 CFR Part 60. 40 CFR Part 60, Subparts, K, Ka, Kb, and OOOO and could potentially apply to the storage tanks located at this facility. 40 CFR Part 60, Subparts, K, Ka, and Kb could potentially apply to the storage tanks located at this facility. However, pursuant to 40 CFR 60.110 (b), 60.110(a) (b), and 60.110(b) (b), these subparts do not apply to storage vessels equal to or less than 10,000 bbls, used for petroleum or condensate, that is stored, processed, and/or treated at a drilling and production facility prior to custody transfer.

40 CFR Part 60, Subpart OOOO—Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution (constructed, reconstructed, or modified after 8/23/11) applies to single storage vessel, located in the oil and natural gas production segment, natural gas processing segment or natural gas transmission and storage segment. The subject tanks are subject to this subpart. However, Subpart OOOO has no standards for tanks with annual VOC emissions less than 6 tons per year. Therefore, the subject tanks are not affected facilities and subpart OOOO does not apply.

Rule 4101 Visible Emissions

Per Section 5.0, no person shall discharge into the atmosphere emissions of any air contaminant aggregating more than 3 minutes in any hour which is as dark as or darker than Ringelmann 1 (or 20% opacity).

The flare is steam-assisted and is expected to continue to operate without visible emissions as stated in the following ATC condition:

No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1/4 or 5% opacity. [District Rules 2201 and 4101] N

Compliance with the requirements of this rule is expected.

Rule 4102 Nuisance

Rule 4102 prohibits discharge of air contaminants which could cause injury, detriment, nuisance or annoyance to the public. Public nuisance conditions are not expected as a result of these operations, provided the equipment is well maintained. Therefore, compliance with this rule is expected.

California Health & Safety Code 41700 (Health Risk Assessment)

District Policy APR 1905 - *Risk Management Policy for Permitting New and Modified Sources* specifies that for an increase in emissions associated with a proposed new source or modification, the District perform an analysis to determine the possible impact to the nearest resident or worksite.

An HRA is not required for a project with a total facility prioritization score of less than or equal to one. According to the Technical Services Memo for this project (Attachment IX), the total facility prioritization score including this project was less than or equal to one. Therefore, no future analysis is required to determine the impact from this project and compliance with the District's Risk Management Policy is expected.

District Rule 4311 Flares

The purpose of this rule is to limit the emissions of volatile organic compounds (VOC), oxides of nitrogen (NOx), and sulfur oxides (SOx) from the operation of flares. This rule is applicable to all operations involving the use of flares.

Section 5.1 states that flares that are permitted to operate only during an emergency are not subject to the requirements of Sections 5.6 and 5.7. The flare is a produced gas flare and therefore is subject to the requirements of Sections 5.6 and 5.7 which are discussed below.

Section 5.2 requires that the flame be present at all times when combustible gases are vented through the flare. The flare is equipped with a continuous pilot flame and a flame ionization monitoring device that will ensure that a flame is present at all time when combustion gases are vented through the flare.

The following condition will be listed on the ATC to ensure compliance:

A flame shall be present at all times when combustible gases are vented through the flare. [District Rules 2201 and 4311]Y

Section 5.3 requires that the flare outlet be equipped with an automatic ignition system, or operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares. The following condition will be listed on the ATC to ensure compliance:

Flare outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare. The pilot need not be present when the flare is isolated for required flare maintenance. [40 CFR 60.18(c)(2), District Rule 4311, 5.3] Y

Section 5.4 requires that except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an alternative equivalent device, capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated. This flare is equipped with automatic ignition systems; therefore, requirements of this section are satisfied. The following condition will be listed on the ATC to ensure compliance:

• Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting the presence of at least one pilot flame or the flare flame, shall be installed and operated. [District Rule 4311]Y

Section 5.5 requires flares that use flow-sensitive automatic ignition systems and which do not use a continuous pilot flame to use purge gas for purging. The following condition will be listed on the ATC to ensure compliance:

 If the flare uses a flow-sensing automatic ignition system and does not use a continuous flame pilot, the flare shall use purge gas for purging. [District Rule 4311]Y

Section 5.6 requires that open flares (air-assisted, steam-assisted, or non-assisted) in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the provisions of 40 CFR 60.18. The subject flare in this project is air-assist and therefore is subject to requirements of Section 5.6. The following condition will be listed on the ATC to ensure compliance:

Open flares in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the provisions of 40 CFR 60.18. [District Rule 4311] Y

Section 5.7 is not applicable as it applies to ground-level enclosed flares.

Section 5.8 dictates that flaring is prohibited unless it is consistent with an approved Flare Minimization Plan (FMP), pursuant to Section 6.5, and all commitments listed in that plan have been met. <u>Applicant has submitted a District-approved FMP</u>.

Section 5.9 applies to refinery flares. The facility is not a refinery.

Section 5.10 applies to units subject to Section 5.8 (FMP). The following ATC condition is included:

Operator shall monitor the vent gas flow to the flare with a flow measuring device or other District-approved parameters. The operator shall maintain records pursuant to Section 6.1.7 of Rule 4311. [District Rule 4311] Y

Section 5.11 dictates that any flare with a flaring capacity equal to or greater than 50 MMBtu/hr shall monitor the flare pursuant to Sections 6.6, 6.7, 6.8, 6.9, and 6.10. This section is <u>not applicable</u>.

Operational Standards Subpart CFR 40 Subpart 60.18

Per 40 CFR 60.112b(a)(3)(ii) and 40 CFR 60.113b(d), the flare will be required to meet the standards contained in 40 CFR 60.18, as this flare is air assisted and the flare gas pressure may be less than 5 psig.

1. 60.18 (c)(1): Flare shall be designed for and operated with no visible emissions as determined by EPA Method 22, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours. Visible emissions testing will be required by ATC condition.

2. 60.18 (c)(2): Flare shall be operated with a flame present at all times. Presence of a flame shall be monitored using a thermocouple or equivalent device to detect the presence of a flame. The flare is equipped with a pilot flame monitoring device.

The following condition included on the ATC requires a continuous pilot flame and smokeless combustion:

Flare outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare. The pilot need not be present when the flare is isolated for required flare maintenance. [40 CFR 60.18(c)(2), District Rule 4311, 5.3] Y

(649) Flares shall be designed for and operated with no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours. [40 CFR 60.18(c)(1)] Y

(650) Demonstration of compliance with the visible emissions limit of this permit shall be conducted at least annually, using EPA Method 22. The observation period shall be 2 hours. [40 CFR 60.18(f)(1)] Y

1. 60.18 (c)(3)(ii): Net heating value of the gas being combusted shall be 300 Btu/scf or greater for air-assisted flares. The flare is steam-assisted and therefore this requirement does not apply.

2. 60.18 (c)(5): Air-assisted flares shall be designed and operated with an exit velocity less than the velocity, Vmax, which shall be determined as follows:

Vmax = 8.706 + 0.7084 (HT) Where: Vmax = Maximum permitted velocity (m/s) HT = Net heating value (MJ/scm)

The flare is steam-assisted and therefore this requirement does not apply.

The minimum heating value of flared gas must be no less than 300 Btu/scf as stated in the following ATC conditions:

Flares shall only be used with the net heating value of the gas being combusted being 300 Btu/scf or greater if the flare is air-assisted or steam-assisted. [40 CFR 60.18 (c)(3)] Y

The net heating value of the gas being combusted in a flare shall be calculated annually, pursuant to 40 CFR 60.18(f)(3) and using ASTM D 1826 or D 1945 in conjunction with ASTM D 3588. [40 CFR 60.18 (f)(3-6] Y

1. 60.18 (e): This section requires that the flare be operational when emissions may be vented to the flare. The presence of a continuous pilot flame will ensure that the flare is operational.

The following condition is included on the ATC:

Flares shall be operated with a flame present at all times, and kept in operation when emissions may be vented to them. The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame. [40 CFR 60.18 (c)(2), 60.18 (e), and 60.18 (f)(2)] Y

Record-keeping Requirements Subparts 60.115b(d)(2), 60.115b(d)(3):

Applicant has proposed the following record-keeping provisions:

1. 60.115b(d)(2): Records shall be maintained of all periods when the flare pilot flame is absent.

2. 60.115b(d)(3): Semi-annual reports of all periods without the presence of a flare pilot flame shall be furnished to the Administrator.

The ATC includes the following conditions:

Semi-annual reports of all periods without the presence of a flare pilot flame shall be furnished to the District Compliance Division and EPA. [District Rule 4001 40CFR 60.115b(d)(3)] Y

Records shall be maintained of all periods when the flare pilot flame is absent. [40CFR 60.115(d)(2)] Y

6.0 Administrative Requirements

Section 6.1 Recordkeeping

The following records shall be maintained, retained on-site for a minimum of five years, and made available to the APCO, ARB, and EPA upon request:

6.1.1 Copy of the compliance determination conducted pursuant to Section 6.4.1 (40 CFR 60.18).

Copies of compliance determination pursuant to 40 CFR 60.18 shall be made readily available to the APCO, ARB, and EPA upon request for a minimum of 5 years. [40 CFR 60.18, District Rule 4311, Section 6.1]

Upon request, the operator of flares that are subject to provisions of Section 5.6 of Rule 4311 shall make available, to the APCO, the compliance determination records that demonstrate compliance with the provisions of 40 CFR 60.18, (c)(3) through (c)(5). [40 CFR 60.18 (c) and District Rule 4311] Y

6.1.2 Copy of the source testing result conducted pursuant to Section 6.4.2 (for ground level enclosed flares – <u>not applicable</u>).

6.1.3 For flares used during an emergency, record of the duration of flare operation, amount of gas burned, and the nature of the emergency situation. The following condition will be listed on the ATC to ensure compliance:

The operator shall notify the District of any emergency use of the flare within 24 hours after the start of the next business day or within 24 hours after discovery, which ever occurs first. The notification shall include the flare source identification, the start date and time and the end date and time. [District Rule 1070 and 4311] Y

6.1.4 Operators claiming an exemption pursuant to Section 4.3 shall record annual throughput, material usage, or other information necessary to demonstrate an exemption under that section - <u>not applicable</u>

6.1.5 Effective on and after July 1, 2011, a copy of the approved flare minimization plan pursuant to Section 6.5. The following ATC condition is included:

Permittee shall keep a copy of flare minimization plan onsite for District inspection upon request. [40 CFR 60.18, Rule 4311] Y

On and after July 1, 2011, permittee shall keep a copy of flare minimization plan onsite for District inspection upon request. [40 CFR 60.18, Rule 4311]

6.1.6 Effective on and after July 1, 2012, where The following ATC condition is included: applicable, a copy of annual reports submitted to the APCO pursuant to Section 6.2.

Operator shall submit an annual report to the APCO that summarizes all Reportable Flaring Events as defined in Section 3.0 that occurred during the previous 12 month period. The report shall be submitted within 30 days following the end of the twelve month period of the previous year. The report shall include the items set forth in Sections 6.2.2.1 through 6.2.2.4 of Rule 4311 (as amended 6/18/09). [District Rule 4311] Y

Upon request, the operator of flares that are subject to provisions of Section 5.6 of Rule 4311 shall make available, to the APCO, the compliance determination records that demonstrate compliance with the provisions of 40 CFR 60.18, (c)(3) through (c)(5). [40 CFR 60.18 (c) and District Rule 4311] Y

Section 6.1.7 Effective on and after July 1, 2011, where applicable, monitoring data collected pursuant to Sections 5.10 (flare minimization vent gas flow rate), 6.6 (Petroleum Refinery flare – <u>not applicable</u>), 6.7 (Petroleum Refinery flare – <u>not applicable</u>), 6.8 (Petroleum Refinery flare – <u>not applicable</u>), 6.9 (Petroleum Refinery flare – <u>not applicable</u>), and 6.10 (Petroleum Refinery flare – <u>not applicable</u>).

Operator shall monitor the vent gas flow to the flare with a flow measuring device or other District-approved parameters. The operator shall maintain records pursuant to Section 6.1.7 of Rule 4311. [District Rule 4311] Y

Section 6.2 includes record-keeping requirements for flares subject to Section 5.6, ground level flares, emergency flares, and Section 4.3. The subject flare is subject to Section 5.6. The requirement is stated in the following condition:

Permittee shall keep a copy of flare minimization plan onsite for District inspection upon request. [40 CFR 60.18, Rule 4311]

Section 6.4 Compliance Determination

6.4.1 Upon request, the operator of flares that are subject to Section 5.6 shall make available, to the APCO, the compliance determination records that demonstrate compliance with the provisions of 40 CFR 60.18, (c)(3) through (c)(5). The requirement is stated in the following condition:

Upon request, the operator of flares that are subject to provisions of Section 5.6 of Rule 4311 shall make available, to the APCO, the compliance determination records that demonstrate compliance with the provisions of 40 CFR 60.18, (c)(3) through (c)(5). [40 CFR 60.18 (c) and District Rule 4311] Y

6.4.2 The operator of ground-level enclosed flares shall conduct source testing at least once every 12 months to demonstrate compliance with Section 5.7. The operator shall submit a copy of the testing protocol to the APCO at least 30 days in advance of the scheduled testing. The operator shall submit the source test results not later than 45 days after completion of the source testing. – <u>not applicable</u>

Section 6.5 Flare Minimization Plan

6.5.1 By July 1, 2010, the operator of a petroleum refinery flare or any flare that has a flaring capacity of greater than or equal to 5.0 MMBtu per hour shall submit a flare minimization plan

(FMP) to the APCO for approval. The project flare has a rating of 35.417 MMBtu/hr) and therefore is subject to this section. The FMP shall include, but not be limited to:

6.5.1.1 A description and technical specifications for each flare and associated knock-out pots, surge drums, water seals and flare gas recovery systems.

6.5.1.2 Detailed process flow diagrams of all upstream equipment and process units venting to each flare, identifying the type and location of all control equipment.

6.5.1.3 A description of equipment, processes, or procedures the operator plans to install or implement to eliminate or minimize flaring and planned date of installation or implementation.

6.5.1.4 An evaluation of prevention measures to reduce flaring that has occurred or may be expected to occur during planned major maintenance activities, including startup and shutdown.

6.5.1.5 An evaluation of preventative measures to reduce flaring that may be expected to occur due to issues of gas quantity and quality. The evaluation shall include an audit of the vent gas recovery capacity of each flare system, the storage capacity available for excess vent gases, and the scrubbing capacity available for vent gases including any limitations associated with scrubbing vent gases for use as a fuel; and shall determine the feasibility of reducing flaring though the recovery, treatment and use of the gas or other means.

6.5.1.6 An evaluation of preventative measures to reduce flaring caused by the recurrent failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. The evaluation shall determine the adequacy of existing maintenance schedules and protocols for such equipment. For purposes of this section, a failure is recurrent if it occurs more than twice during any five year period as a result of the same cause as identified in accordance with Section 6.2.2.

6.5.1.7 Any other information requested by the APCO as necessary for determination of compliance with applicable provisions of this rule.

6.5.2 Every five years after the initial FMP submittal, the operator shall submit an updated FMP for each flare to the APCO for approval. The current FMP shall remain in effect until the updated FMP is approved by the APCO. If the operator fails to submit an updated FMP as required by this section, the existing FMP shall no longer be considered an approved plan.

6.5.3 An updated FMP shall be submitted by the operator pursuant to Section 6.5 addressing new or modified equipment, prior to installing the equipment. Updated FMP submittals are only required if:

6.5.3.1 The equipment change would require an authority to construct (ATC) and would impact the emissions from the flare, and

6.5.3.2 The ATC is deemed complete after June 18, 2009, and

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6.5.3.3 The modification is not solely the removal or decommissioning of equipment that is listed in the FMP, and has no associated increase in flare emissions.

6.5.4 When submitting the initial FMP, or updated FMP, the operator shall designate as confidential any information claimed to be exempt from public disclosure under the California Public Records Act, Government Code Section 6250 et seq. If a document is submitted that contains information designated confidential, the operator shall provide a justification for this designation and shall submit a separate copy of the document with the information designated confidential redacted.

Sections 6.6, 6.7, 6.8, and 6.9 are applicable to flares with an hourly heat input exceeding 50 MMBtu/hr and therefore is not relevant to the project.

Section 6.10 is not applicable as it addresses petroleum refinery flares.

Section 7.0 Compliance Schedule

Operators of flares, that are exempt under Section 4.0 and that lose exemption status, shall not operate flares until in full compliance with all applicable requirements of this rule effective on the date the exemption status is lost. This section is not applicable.

Compliance with the rule is expected.

Rule 4401 Steam Enhanced Crude Oil Production Well Vents

The purpose of this rule is to limit the VOC emissions from steam-enhanced crude oil production well vents. This rule is applicable to all steam-enhanced crude oil production wells and any associated vapor collection and control systems. The outstanding ATCs (base documents) include requirements ensuring compliance with the rule. Continued compliance is expected.

Rule 4623 Storage of Organic Liquids

This rule applies to any tank with a capacity of 1,100 gallons or greater in which any organic liquid is placed, held, or stored.

The new tanks are vented to a vapor control system with a VOC control efficiency of at least 95%. Therefore the vapor control requirements of the rule are satisfied.

Compliance is expected.

Rule 4801 Sulfur Compounds

The rule limits sulfur compound emission (as SOx) concentrations to no more than 2000 ppmv, measured at the point of discharge. Flared gas is limited to a sulfur content not exceeding 15 gr S/100scf and therefore compliance is expected.

California Health & Safety Code 42301.6 (School Notice)

The applicant has stated and the District has confirmed that the equipment is not located within 1000 feet of a K-12 school. Therefore the equipment is not subject to public notice requirements listed in CH&SC, section 42301.6.

California Environmental Quality Act (CEQA)

CEQA requires each public agency to adopt objectives, criteria, and specific procedures consistent with CEQA Statutes and the CEQA Guidelines for administering its responsibilities under CEQA, including the orderly evaluation of projects and preparation of environmental documents. The District adopted its *Environmental Review Guidelines* (ERG) in 2001. The basic purposes of CEQA are to:

- Inform governmental decision-makers and the public about the potential, significant environmental effects of proposed activities;
- Identify the ways that environmental damage can be avoided or significantly reduced;
- Prevent significant, avoidable damage to the environment by requiring changes in projects through the use of alternatives or mitigation measures when the governmental agency finds the changes to be feasible; and
- Disclose to the public the reasons why a governmental agency approved the project in the manner the agency chose if significant environmental effects are involved.

Facility S-6848 is subject to ARB's Cap and Trade regulation. Consistent with CCR §15064(h)(3), the District finds that compliance with ARB's Cap and Trade regulation would avoid or substantially lessen the impact of project-specific GHG emissions on global climate change. The District therefore concludes that projects occurring at facilities subject to ARB's Cap and Trade regulation would have a less than significant individual and cumulative impact on global climate change.

IX. Recommendation

Compliance with all applicable rules and regulations is expected. Pending a successful NSR Public Noticing period, issue S-6848-15-2, '-16-0 through '-32-0 subject to the permit conditions on the attached draft ATCs **Attachment XII**.

X. Billing Information

Annual Permit Fees					
Permit Number	Fee Schedule	Fee Description	Annual Fee		
S-6848-15	3020-09A	200 wells	\$1868.00		
S-6848-16, '-17	3020-05C	31,332 gallons	\$135.00		
S-6848-18, '-19	3020-05C	24,360 gallons	\$135.00		
S-6848-20	3020-05E	210,000 gallons	\$246.00		
thru'-24		-			
S-6848-25, '-26	3020-05D	84,000 gallons	\$185.00		
S-6848-27	3020-05C	42,000 gallons	\$135.00		
S-6848-28, '-29	3020-05C	26,000 gallons	\$135.00		
S-6848-30	3020-05C	21,000 gallons	\$135.00		
S-6848-31	3020-05C	42,000 gallons	\$135.00		
S-6848-32	3020-02H	44.0 MMBtu/hr	\$1030.00		

ATTACHMENTS

- I: Current ATCs S-6848-15-0 and '-15-1
- II: Location Map
- III: Facility Diagram IV: Tank Emissions Calculations
- V: Gas Analyses
- VI: Emissions Profiles
- VII: BACT Guideline
- VIII: BACT Analysis
- IX: AAQA/HRA
- X: Statewide Compliance Certification Statement
- XI: Certificate of Compliance
- XII: Draft ATC

OEHI S-6848, 1133800

ATTACHMENT I Current ATCs S-6848-15-0 and '-15-1

AUTHORITY TO CONSTRUCT

PERMIT NO: S-6848-15-0

ISSUANCE DATE: 11/27/2013

LEGAL OWNER OR OPERATOR: OCCIDENTAL OF ELK HILLS INC MAILING ADDRESS: ATTN: DENNIS CHAMPION

PO BOX 1001 **TUPMAN, CA 93276**

HEAVY OIL WESTERN

LOCATION:

SECTION: 35 TOWNSHIP: 30S RANGE: 22E

EQUIPMENT DESCRIPTION:

THERMALLY ENHANCED OIL RECOVERY OPERATION WITH 200 STEAM ENHANCED WELLS OPERATING WITH EITHER A WELLHEAD VAPOR CONTROL SYSTEM OR CLOSED CASING VENTS WITH PRODUCED FLUIDS ROUTED TO FRONT LINE TANKS ON A VAPOR CONTROL SYSTEM

CONDITIONS

- This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 1. 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
- 2. Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
- 3. Maximum VOC content of the gas in the casing collection system shall not exceed 10% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 4. Operator shall conduct and keep records of quarterly sampling of gas handled by the casing collection system to qualify for exemption from fugitive component counts for components handling fluids with less than 10% VOC by weight. If fluids sampled are less than 10% VOC by weight for eight consecutive quarterly samplings, sampling frequency shall only be required annually. [District Rule 2201] Federally Enforceable Through Title V Permit
- During the time any steam-enhanced crude oil production well is undergoing service or repair while the well is not 5. producing, it shall be exempt from the emission control requirements of District Rule 4401, 5.0 (as amended December 14, 2006). [District Rule 4401, 4.1] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Vailay Unified Air Poliution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct ahaii expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmantal agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services -0848-15-0 : Feb 15 2014 12 45PM

Southern Regional Office • 34946 Flyover Court • Bakersfield, CA 93308 • (661) 392-5500 • Fax (661) 392-5585

Conditions for S-6848-15-0 (continued)

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- 6. The annual inspection requirements of Section 5.8.1 through Section 5.8.5 of Rule 4401 shall not apply to components exclusively handling gas/vapor or liquid with a VOC content of ten percent by weight (10 wt %) or less, as determined by the test methods in Section 6.3.5 of Rule 4401. [District Rule 4401 4.9] Federally Enforceable Through Title V Permit
- 7. Gas and liquid leaks are as defined in Section 3.20 of Rule 4401. [District Rule 4401 3.20] Federally Enforceable Through Title V Permit
- 8. An operator shall not operate a steam-enhanced crude oil production well unless the operator complies with either of the following requirements: The steam-enhanced crude oil production well vent is closed and the front line production equipment downstream of the wells that carry produced fluids (crude oil or mixture of crude oil and water) is connected to a VOC collection and control system as defined in Section 3.0 of Rule 4401, the well vent may be temporarily opened during periods of attended service or repair of the well provided such activity is done as expeditiously as possible with minimal spillage of material and VOC emissions to the atmosphere, or the steam-enhanced crude oil production well vent is connected to a VOC collection and control system as defined in Section 3.0 of Rule 4401. [District Rule 4401, 5.5.1 and 5.5.2] Federally Enforceable Through Title V Permit
- 9. An operator shall be in violation of this rule if any District inspection demonstrates or if any operator inspection conducted pursuant to Section 5.8 of Rule 4401 demonstrates the existence of an open-ended line or a valve located at the end of the line that is not sealed with a blind flange, plug, cap, or a second closed valve that is not closed at all times, except during attended operations as defined by Section 5.6.2.1 of Rule 4401 requiring process fluid flow through the open-ended lines, a component with a major liquid leak, or a component with a gas leak greater than 50,000 ppmv. [District Rule 4401 5.6.2] Federally Enforceable Through Title V Permit
- 10. An operator shall be in violation of this rule if any District inspection demonstrates or if any operator inspection conducted pursuant to Section 5.8 of Rule 4401 demonstrates the existence of any combination of components with minor liquid leaks, minor gas leaks, or a gas leaks greater than 10,000 ppmv up to 50,000 ppmv that totals more than number of leaks allowed by Table 3 of Rule 4401. [District Rule 4401 5.6.2] Federally Enforceable Through Title V Permit
- 11. An operator shall not use any component with a leak as defined in Section 3.0 of Rule 4401, or that is found to be in violation of the provisions of Section 5.6.2 of Rule 4401. However, components that were found leaking may be used provided such leaking components have been identified with a tag for repair, are repaired, or awaiting re-inspection after being repaired within the applicable time frame specified in Section 5.9 of Rule 4401. [District Rule 4401 5.7.1] Federally Enforceable Through Title V Permit
- 12. Each hatch shall be closed at all times except during sampling or adding of process material through the hatch, or during attended repair, replacement, or maintenance operations, provided such activities are done as expeditiously as possible with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4401 5.7.2] Federally Enforceable Through Title V Permit
- 13. An operator shall comply with the requirements of Section 6.7 of Rule 4401 if there is any change in the description of major components or critical components. [District Rule 4401 5.7.3] Federally Enforceable Through Title V Permit
- 14. In addition to the inspections required by Section 5.8.1 of Rule 4401, an operator shall inspect for leaks all accessible operating pumps, compressors, and PRDs in service as follows: An operator shall audio-visually (by hearing and by sight) inspect for leaks all accessible operating pumps, compressors, and PRDs in service at least once each calendar week. Any audio-visual inspection of an accessible operating pump, compressor, and PRD performed by an operator that indicates a leak that cannot be immediately repaired to meet the leak standards of this rule shall be inspected not later than 24 hours after conducting the audio-visual inspection. If a leak is found, the leak shall be repaired as soon as practicable but not later than the time frame specified in Table 4 of Rule 4401. [District Rule 4401 5.8.3] Federally Enforceable Through Title V Permit

- 15. In addition to the inspections required by Sections 5.8.1, 5.8.2 and 5.8.3 of Rule 4401, operator shall perform the following: initially inspect a PRD that releases to the atmosphere as soon as practicable but not later than 24 hours after the discovery of the release, re-inspect the PRD not earlier than 24 hours after the initial inspection but not later than 15 calendar days after the initial inspection, inspect all new, replaced, or repaired fittings, flanges, and threaded connections within 72 hours of placing the component in service. Except for PRDs subject to the requirements of Section 5.8.4.1 of Rule 4401, an operator shall inspect a component that has been repaired or replaced not later than 15 calendar days after the component was repaired or replaced. [District Rule 4401 5.8.4] Federally Enforceable Through Title V Permit
- 16. An operator shall inspect all unsafe-to-monitor components during each turnaround. [District Rule 4401 5.8.5] Federally Enforceable Through Title V Permit
- 17. District inspection in no way fulfills any of the mandatory inspection requirements that are placed upon operators and cannot be used or counted as an inspection required of an operator. [District Rule 4401 5.8.6] Federally Enforceable Through Title V Permit
- 18. An operator shall affix a readily visible weatherproof tag to a leaking component upon detection of the leak and shall include the following information on the tag: date and time of leak detection, date and time of leak measurement, for a gaseous leak, the leak concentration in ppmv, for a liquid leak, whether it is a major liquid leak or a minor liquid leak, whether the component is an essential component, an unsafe-to monitor component, or a critical component. [District Rule 4401 5.9.1] Federally Enforceable Through Title V Permit
- 19. An operator shall keep the tag affixed to the component until an operator has met all of the following conditions: repaired or replaced the leaking component, re-inspected the component using the test method in Section 6.3.3, and 5.9.2.3 of Rule 4401, or the component is found to be in compliance with the requirements of this rule. [District Rule 4401 5.9.2] Federally Enforceable Through Title V Permit
- 20. An operator shall minimize a component leak in order to stop or reduce leakage to the atmosphere immediately to the extent possible, but not later than one (1) hour after detection of the leak. [District Rule 4401 5.9.3] Federally Enforceable Through Title V Permit
- 21. Except for leaking critical components or leaking essential components subject to the requirements of Section 5.9.7 of Rule 4401, if an operator has minimized a leak but the leak still exceeds the applicable leak limits as defined in Section 3.0 of Rule 4401, an operator shall comply with at least one of the following requirements as soon as practicable but not later than the time period specified in Table 4 of Rule 4401: Repair or replace the leaking component; or vent the leaking component to a VOC collection and control system as defined in Section 3.0 of Rule 4401, or remove the leaking component from operation. [District Rule 4401 5.9.4] Federally Enforceable Through Title V Permit
- 22. The repair period in calendar days shall not exceed 14 days for minor gas leaks, 5 days for major gas leaks less than or equal to 50,000 ppmv, 2 days for gas leak greater than 50,000 ppmv, 3 days for minor liquid leaks, 2 days for major liquid leaks. [District Rule 4401 5.9.4] Federally Enforceable Through Title V Permit
- 23. The leak rate measured after leak minimization has been performed shall be the leak rate used to determine the applicable repair period specified in Table 4 of Rule 4401. [District Rule 4401 5.9.5] Federally Enforceable Through Title V Permit
- 24. The time of the initial leak detection shall be the start of the repair period specified in Table 4 of Rule 4401. [District Rule 4401 5.9.6] Federally Enforceable Through Title V Permit
- 25. If the leaking component is an essential component or a critical component that cannot be immediately shut down for repairs, and if the leak has been minimized but the leak still exceeds the applicable leak standard of this rule, the operator shall repair or replace the essential component or critical component to eliminate the leak during the next process unit turnaround, but in no case later than one year from the date of the original leak detection, whichever comes earlier. [District Rule 4401 5.9.7] Federally Enforceable Through Title V Permit
- 26. The operator of any steam-enhanced crude oil production well shall maintain records of the date and well identification where steam injection or well stimulation occurs. [District Rule 4401 6.1.1] Federally Enforceable Through Title V Permit

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- An operator of any steam-enhanced crude oil production well shall keep source test records which demonstrate compliance with the control efficiency requirements of the VOC collection and control system as defined in Section 3.0 of Rule 4401. [District Rule 4401 6.1.3] Federally Enforceable Through Title V Permit
- 28. The results of source tests conducted pursuant to Section 4.6.2 of Rule 4401 shall be submitted to the APCO within 60 days after the completion of the source test. [District Rule 4401 6.1.4] Federally Enforceable Through Title V Permit
- 29. Operator of any steam-enhanced crude oil production well shall keep an inspection log maintained pursuant to Section 6.4 of Rulc 4401. [District Rule 4401 6.1.5] Federally Enforceable Through Title V Permit
- 30. Records of each calibration of the portable hydrocarbon detection instrument utilized for inspecting components, including a copy of current calibration gas certification from the vendor of said calibration gas cylinder, the date of calibration, concentration of calibration gas, instrument reading of calibration gas before adjustment, instrument reading of calibration gas after adjustment, calibration gas expiration date, and calibration gas cylinder pressure at the time of calibration shall be maintained. [District Rule 4401 6.1.6] Federally Enforceable Through Title V Permit
- 31. An operator shall maintain copies at the facility of the training records of the training program operated pursuant to Section 6.5 of Rule 4401. [District Rule 4401 6.1.7] Federally Enforceable Through Title V Permit
- 32. Operator shall keep a copy of the APCO-approved Operator Management Plan at the facility. [District Rule 4401 6.1.8] Federally Enforceable Through Title V Permit
- 33. An operator that discovers that a PRD has released shall record the date that the release was discovered, and the identity and location of the PRD that released. An operator shall submit such information recorded during the calendar year to the APCO no later than 60 days after the end of the calendar year. [District Rule 4401 6.1.11] Federally Enforceable Through Title V Permit
- 34. An operator shall source test annually all vapor collection and control systems used to control emissions from steamenhanced crude oil production well vents to determine the control efficiency of the device(s) used for destruction or removal of VOC. Compliance testing shall be performed annually by source testers certified by ARB. Testing shall be performed during June, July, August, or September of each year if the system's control efficiency is dependent upon ambient air temperature. A process system is not subject to compliance source testing requirements. [District Rule 4401 6.2.1] Federally Enforceable Through Title V Permit
- 35. If approved by the APCO, an operator need not comply with the annual testing requirement of Section 6.2.1 if all uncondensed VOC emissions collected by a vapor collection and control system are incinerated in fuel burning equipment, an internal combustion engine or in a smokeless flare. [District Rule 4401 6.2.2] Federally Enforceable Through Title V Permit
- 36. An operator shall comply with the following requirements for each gauge tank, as defined in Section 3.17 of Rule 4401: Conduct an initial TVP testing of the produced fluid in each gauge tank not later than June 14, 2007. Thereafter, an operator shall conduct periodic TVP testing of each gauge tank at least once every 24 months during summer (July September), and whenever there is a change in the source or type of produced fluid in the gauge tank. The TVP testing shall be conducted at the actual storage temperature of the produced fluid in the gauge tank using the applicable TVP testing results to the APCO as specified in Section 6.1.10 of Rule 4401. [District Rule 4401 6.2.5] Federally Enforceable Through Title V Permit
- 37. The control efficiency of any VOC control device, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case EPA Method 25a may be used. EPA Method 18 may be used in lieu of EPA Method 25 or EPA Method 25a provided the identity and approximate concentrations of the analytes/compounds in the sample gas stream are known before analysis with the gas chromatograph and the gas chromatograph is calibrated for each of those known analyte/compound to ensure that the VOC concentrations are neither under- or over-reported. [District Rule 4401 6.3.1] Federally Enforceable Through Title V Permit
- 38. VOC content shall be analyzed by using the latest revision of ASTM Method E168, E169, or E260 as applicable. Analysis of halogenated exempt compounds shall be performed by using ARB Method 432. [District Rule 4401 6.3.2] Federally Enforceable Through Title V Permit

- 39. Leak inspection, other than audio-visual, and measurements of gaseous leak concentrations shall be conducted according to EPA Method 21 using an appropriate portable hydrocarbon detection instrument calibrated with methane. The instrument shall be calibrated in accordance with the procedures specified in EPA Method 21 or the manufacturer's instruction, as appropriate, not more than 30 days prior to its use. The operator shall record the calibration date of the instrument. Where safety is a concern, such as measuring leaks from compressor seals or pump seals when the shaft is rotating, a person shall measure leaks by placing the instrument probe inlet at a distance of one (1) centimeter or less from the surface of the component interface. [District Rule 4401 6.3.3] Federally Enforceable Through Title V Permit
- 40. The VOC content by weight percent (wt.%) shall be determined using American Society of Testing and Materials (ASTM) D1945 for gases and South Coast Air Quality Management District (SCAQMD) Method 304-91 or the latest revision of ASTM Method E168, E169 or E260 for liquids. [District Rule 4401 6.3.5] Federally Enforceable Through Title V Permit
- 41. Operator shall maintain an inspection log in which an operator records, at a minimum, all of the following information for each inspection performed: The total number of components inspected, total number and percentage of leaking components found by component type, location, type, and name or description of each leaking component and description of any unit where the leaking component is found, date of leak detection and the method of leak detection. For gaseous leaks, the leak concentration in ppmv, and for liquid leaks record whether the leak is a major liquid leak or a minor liquid leak. the date of repair, replacement, or removal from operation of leaking components, the identify and location of essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes earlier, methods used to minimize the leak from essential components and critical component is repaired or is replaced, the inspector's name, business mailing address, and business telephone number, date and signature of the facility operator responsible for the inspection and repair program certifying the accuracy of the information recorded in the log. [District Rule 4401 6.4] Federally Enforceable Through Title V Permit
- 42. Permittee shall maintain a current roster of all wells connected to this system. [District Rules 2201 and 4401] Federally Enforceable Through Title V Permit
- 43. Records of the VOC content of the gas shall be maintained and made readily available for District inspection upon request for a period of 5 years. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
- 44. All records of required monitoring data and support information shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

AUTHORITY TO CONSTRUCT

PERMIT NO: S-6848-15-1

ISSUANCE DATE: 01/28/2014

LEGAL OWNER OR OPERATOR: OCCIDENTAL OF ELK HILLS INC MAILING ADDRESS: ATTN: DENNIS CHAMPION PO BOX 1001

LOCATION: HEAVY OIL WESTERN

SECTION: 35 TOWNSHIP: 30S RANGE: 22E

EQUIPMENT DESCRIPTION:

MODIFICATION OF THERMALLY ENHANCED OIL RECOVERY OPERATION WITH 200 STEAM ENHANCED WELLS OPERATING WITH EITHER A WELLHEAD VAPOR CONTROL SYSTEM OR CLOSED CASING VENTS WITH PRODUCED FLUIDS ROUTED TO FRONT LINE TANKS ON A VAPOR CONTROL SYSTEM: LIST AUTHORIZED GAS DISPOSAL DEVICES AS STEAM GENERATORS LISTED ON S-6848-12 AND S-1327-32, PERMIT EXEMPT EQUIPMENT, OR THE FLARE LISTED ON S-6848-34

TUPMAN, CA 93278

CONDITIONS

- 1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
- 2. Maximum VOC content of the gas in the casing collection system shall not exceed 10% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 3. Operator shall conduct and keep records of quarterly sampling of gas handled by the casing collection system to qualify for exemption from fugitive component counts for components handling fluids with less than 10% VOC by weight. If fluids sampled are less than 10% VOC by weight for eight consecutive quarterly samplings, sampling frequency shall only be required annually. [District Rule 2201] Federally Enforceable Through Title V Permit
- 4. Collected vapors shall be disposed of in steam generators listed on S-6848-12 or '-32, the flare listed on '-34, permitexempt equipment, or routed to a sales gas line. [District Rule 2201] Federally Enforceable Through Title V Permit
- 5. During the time any steam-enhanced crude oil production well is undergoing service or repair while the well is not producing, it shall be exempt from the emission control requirements of District Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This Is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an Inspection to verify that the equipment has been constructed in eccordance with the approvad plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with ail Rules and Regulations of the San Joaquin Valley Unified Air Poliution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shell be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services 84849-15-1, Feb 15 2014 12 45PM – EDGEHILR : Joint Inspection MOT Required

Southern Regional Office • 34946 Flyover Court • Bakersfield, CA 93308 • (661) 392-5500 • Fax (661) 392-5585

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- 6. Gas and liquid leaks are as defined in Section 3.20 of Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit
- 7. The inspection requirements of Section 5.4.1 through Section 5.4.7 of Rule 4401 shall not apply to components exclusively handling gas/vapor or liquid with a VOC content of ten percent by weight (10%) or less, as determined by the test methods in Section 6.3.4 of Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit
- 8. An operator shall not operate a steam-enhanced crude oil production well unless the operator complies with either of the following requirements: The steam-enhanced crude oil production well vent is closed and the front line production equipment downstream of the wells that carry produced fluids (crude oil or mixture of crude oil and water) is connected to a VOC collection and control system as defined in Section 3.0 of Rule 4401, the well vent may be temporarily opened during periods of attended service or repair of the well provided such activity is done as expeditiously as possible with minimal spillage of material and VOC emissions to the atmosphere, or the steam-enhanced crude oil production well vent is connected to a VOC collection and control system as defined in Section 3.0 of Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit
- 9. An operator shall be in violation of this rule if any District inspection demonstrates or if any operator inspection conducted pursuant to Section 5.4 of Rule 4401 demonstrates the existence of an open-ended line or a valve located at the end of the line that is not sealed with a blind flange, plug, cap, or a second closed valve that is not closed at all times, except during attended operations as defined by Section 5.2.2.1 of Rule 4401 requiring process fluid flow through the open-ended lines, a component with a major liquid leak, or a component with a gas leak greater than 50,000 ppmv. [District Rule 4401] Federally Enforceable Through Title V Permit
- 10. An operator shall be in violation of this rule if any District inspection demonstrates or if any operator inspection conducted pursuant to Section 5.4 of Rule 4401 demonstrates the existence of any combination of components with minor liquid leaks, minor gas leaks, or a gas leaks greater than 10,000 ppmv up to 50,000 ppmv that totals more than number of leaks allowed by Table 2 of Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit
- 11. An operator shall not use any component with a leak as defined in Section 3.0 of Rule 4401, or that is found to be in violation of the provisions of Section 5.2.2 of Rule 4401. However, components that were found leaking may be used provided such leaking components have been identified with a tag for repair, are repaired, or awaiting re-inspection after being repaired within the applicable time frame specified in Section 5.5 of Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit
- 12. Each hatch shall be closed at all times except during sampling or adding of process material through the hatch, or during attended repair, replacement, or maintenance operations, provided such activities are done as expeditiously as possible with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4401] Federally Enforceable Through Title V Permit
- 13. An operator shall comply with the requirements of Section 6.7 of Rule 4401 if there is any change in the description of major components or critical components. [District Rule 4401] Federally Enforceable Through Title V Permit
- 14. Except for pipes and unsafe-to-monitor components, an operator shall inspect all other components pursuant to the requirements of Section 6.3.3 of Rule 4401 at least once every year. [District Rule 4401] Federally Enforceable Through Title V Permit
- 15. An operator shall visually inspect all pipes at least once every year. Any visual inspection of pipes that indicates a leak that cannot be immediately repaired to meet the leak standards of this rule shall be inspected within 24 hours after detecting the leak. If a leak is found, the leak shall be repaired as soon as practicable but not later than the time frame specified in Table 3 of Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit
- 16. In addition to the inspections required by Section 5.4.1 of Rule 4401, an operator shall inspect for leaks all accessible operating pumps, compressors, and PRDs in service as follows: An operator shall audio-visually (by hearing and by sight) inspect for leaks all accessible operating pumps, compressors, and PRDs in service at least once each calendar week. Any audio-visual inspection of an accessible operating pump, compressor, and PRD performed by an operator that indicates a leak that cannot be immediately repaired to meet the leak standards of this rule shall be inspected not later than 24 hours after conducting the audio-visual inspection. If a leak is found, the leak shall be repaired as soon as practicable but not later than the time frame specified in Table 3 of Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

- 17. In addition to the inspections required by Sections 5.4.1, 5.4.2 and 5.4.3 of Rule 4401, operator shall perform the following: initially inspect a PRD that releases to the atmosphere as soon as practicable but not later than 24 hours after the discovery of the release, re-inspect the PRD not earlier than 24 hours after the initial inspection but not later than 15 calendar days after the initial inspection, inspect all new, replaced, or repaired fittings, flanges, and threaded connections within 72 hours of placing the component in service. Except for PRDs subject to the requirements of Section 5.4.4.1 of Rule 4401, an operator shall inspect a component that has been repaired or replaced not later than 15 calendar days after the component was repaired or replaced. [District Rule 4401] Federally Enforceable Through Title V Permit
- 18. An operator shall inspect all unsafe-to-monitor components during each turnaround. [District Rule 4401] Federally Enforceable Through Title V Permit
- 19. District inspection in no way fulfills any of the mandatory inspection requirements that are placed upon operators and cannot be used or counted as an inspection required of an operator. [District Rule 4401] Federally Enforceable Through Title V Permit
- 20. An operator shall affix a readily visible weatherproof tag to a leaking component upon detection of the leak and shall include the following information on the tag: date and time of leak detection, date and time of leak measurement, for a gaseous leak, the leak concentration in ppmv, for a liquid leak, whether it is a major liquid leak or a minor liquid leak, whether the component is an essential component, an unsafe-to monitor component, or a critical component. [District Rule 4401] Federally Enforceable Through Title V Permit
- 21. An operator shall keep the tag affixed to the component until an operator has met all of the following conditions: repaired or replaced the leaking component, re-inspected the component using the test method in Section 6.3.3, and the component is found to be in compliance with the requirements of this rule. [District Rule 4401] Federally Enforceable Through Title V Permit
- 22. An operator shall minimize a component leak in order to stop or reduce leakage to the atmosphere immediately to the extent possible, but not later than one (1) hour after detection of the leak. [District Rule 4401] Federally Enforceable Through Title V Permit
- 23. Except for leaking critical components or leaking essential components subject to the requirements of Section 5.5.7 of Rule 4401, if an operator has minimized a leak but the leak still exceeds the applicable leak limits as defined in Section 3.0 of Rule 4401, an operator shall comply with at least one of the following requirements as soon as practicable but not later than the time period specified in Table 3 of Rule 4401: Repair or replace the leaking component; or vent the leaking component to a VOC collection and control system as defined in Section 3.0 of Rule 4401, or remove the leaking component from operation. [District Rule 4401] Federally Enforceable Through Title V Permit
- 24. The repair period in calendar days shall not exceed 14 days for minor gas leaks, 5 days for major gas leaks less than or equal to 50,000 ppmv, 2 days for gas leak greater than 50,000 ppmv, 3 days for minor liquid leaks, 2 days for major liquid leaks. [District Rule 4401] Federally Enforceable Through Title V Permit
- 25. The leak rate measured after leak minimization has been performed shall be the leak rate used to determine the applicable repair period specified in Table 3 of Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit
- 26. The time of the initial leak detection shall be the start of the repair period specified in Table 3 of Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit
- 27. If the leaking component is an essential component or a critical component that cannot be immediately shut down for repairs, and if the leak has been minimized but the leak still exceeds the applicable leak standard of this rule, the operator shall repair or replace the essential component or critical component to eliminate the leak during the next process unit turnaround, but in no case later than one year from the date of the original leak detection, whichever comes earlier. [District Rule 4401] Federally Enforceable Through Title V Permit
- 28. The operator of any steam-enhanced crude oil production well shall maintain records of the date and well identification where steam injection or well stimulation occurs. [District Rule 4401] Federally Enforceable Through Title V Permit
- 29. An operator of any steam-enhanced crude oil production well shall keep source test records which demonstrate compliance with the control efficiency requirements of the VOC collection and control system as defined in Section 3.0 of Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit

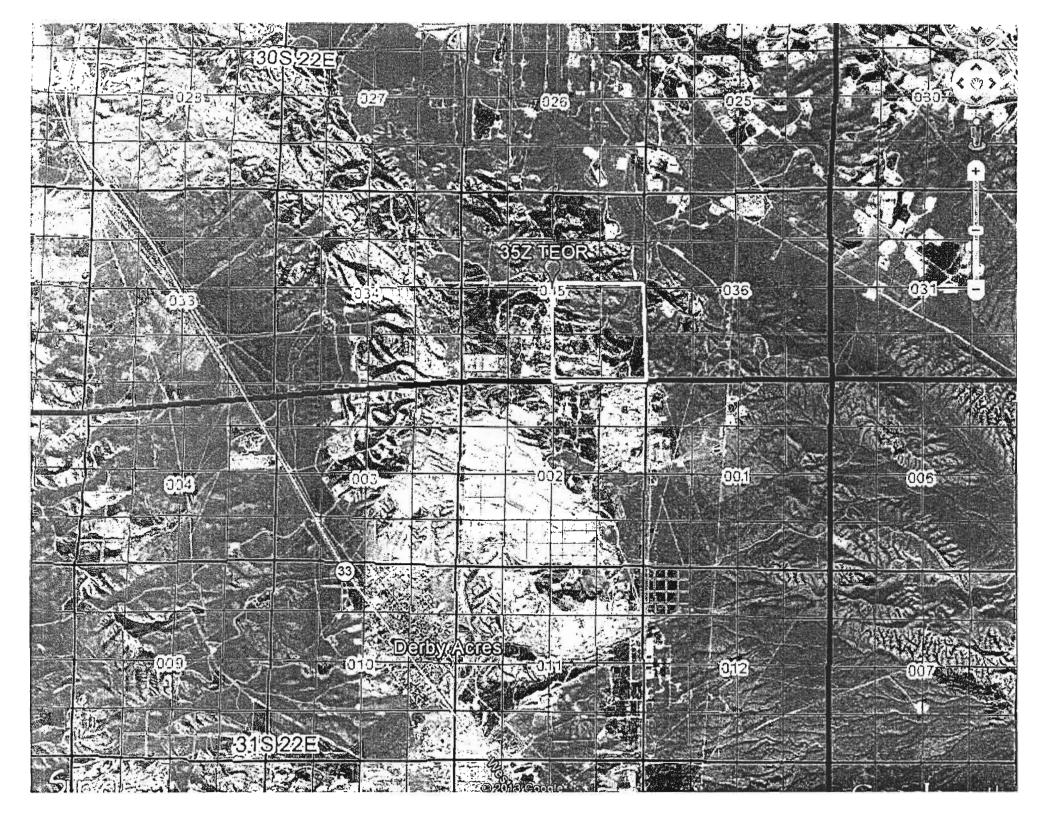
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- 30. Operator shall keep a list of all gauge tanks, as defined in Section 3.0 of Rule 4401. The list shall contain the size, identification number, the location of each gauge tank and specify whether the gauge tank is upstream of all front line production equipment. [District Rule 4401] Federally Enforceable Through Title V Permit
- 31. The results of gauge tank TVP testing conducted pursuant to Section 6.2.3 shall be submitted to the APCO within 60 days after the completion of the testing. [District Rule 4401] Federally Enforceable Through Title V Permit
- 32. An operator that discovers that a PRD has released shall record the date that the release was discovered, and the identity and location of the PRD that released. An operator shall submit such information recorded during the calendar year to the APCO no later than 60 days after the end of the calendar year. [District Rule 4401] Federally Enforceable Through Title V Permit
- 33. An operator shall source test annually all vapor collection and control systems used to control emissions from steamenhanced crude oil production well vents to determine the control efficiency of the device(s) used for destruction or removal of VOC. Compliance testing shall be performed annually by source testers certified by ARB. Testing shall be performed during June, July, August, or September of each year if the system's control efficiency is dependent upon ambient air temperature. A process system as defined in Section 3.30 of Rule 4401 is not subject to compliance source testing requirements. [District Rule 4401] Federally Enforceable Through Title V Permit
- 34. If approved by by the APCO, an operator need not comply with the annual testing requirement of Section 6.2.1 if all uncondensed VOC emissions collected by a vapor collection are controlled by an internal combustion engine subject to Rule 4702, a combustion device subject to Rule 4320, 4307 or 4308, or a flare subject to Rule 4311. [District Rule 4401] Federally Enforceable Through Title V Permit
- 35. An operator shall comply with the following requirements for each gauge tank, as defined in Section 3.0 of Rule 4401: Conduct periodic TVP testing of each gauge tank at least once every 24 months during summer (July - September), and whenever there is a change in the source or type of produced fluid in the gauge tank. The TVP testing shall be conducted at the actual storage temperature of the produced fluid in the gauge tank using the applicable TVP test method specified in Section 6.4 of Rule 4623 (Storage of Organic Liquids). The operator shall submit the TVP testing results to the APCO as specified in Section 6.1.9 of Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit
- 36. The control efficiency of any VOC control device, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case EPA Method 25a may be used. EPA Method 18 may be used in lieu of EPA Method 25 or EPA Method 25a provided the identity and approximate concentrations of the analytes/compounds in the sample gas stream are known before analysis with the gas chromatograph and the gas chromatograph is calibrated for each of those known analyte/compound to ensure that the VOC concentrations are neither under- or over-reported. [District Rule 4401] Federally Enforceable Through Title V Permit
- 37. VOC content shall be analyzed by using the latest revision of ASTM Method E168, E169, or E260 as applicable. Analysis of halogenated exempt compounds shall be performed by using ARB Method 432. [District Rule 4401] Federally Enforceable Through Title V Permit
- 38. Leak inspection, other than audio-visual, and measurements of gaseous leak concentrations shall be conducted according to EPA Method 21 using an appropriate portable hydrocarbon detection instrument calibrated with methane. The instrument shall be calibrated in accordance with the procedures specified in EPA Method 21 or the manufacturer's instruction, as appropriate, not more than 30 days prior to its use. The operator shall record the calibration date of the instrument. Where safety is a concern, such as measuring leaks from compressor seals or pump seals when the shaft is rotating, a person shall measure leaks by placing the instrument probe inlet at a distance of one (1) centimeter or less from the surface of the component interface. [District Rule 4401] Federally Enforceable Through Title V Permit
- 39. The VOC content by weight percent (wt.%) shall be determined using American Society of Testing and Materials (ASTM) D1945 for gases and South Coast Air Quality Management District (SCAQMD) Method 304-91 or the latest revision of ASTM Method E168, E169 or E260 for liquids. [District Rule 4401] Federally Enforceable Through Title V Permit

- 40. Operator shall maintain an inspection log in which an operator records, at a minimum, all of the following information for each inspection performed: The total number of components inspected, total number and percentage of leaking components found by component type, location, type, and name or description of each leaking component and description of any unit where the leaking component is found, date of leak detection and the method of leak detection. For gascous leaks, the leak concentration in ppmv, and for liquid leaks record whether the leak is a major liquid leak or a minor liquid leak. the date of repair, replacement, or removal from operation of leaking components, identify and location of essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes earlier, methods used to minimize the leak from essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes earlier, the date of re-inspection and the leak concentration in ppmv after the component is repaired or is replaced, the inspector's name, business mailing address, and business telephone number, date and signature of the facility operator responsible for the inspection and repair program certifying the accuracy of the information recorded in the log. [District Rule 4401] Federally Enforceable Through Title V Permit
- 41. Operator of any steam-enhanced crude oil production well shall keep an inspection log maintained pursuant to Section 6.4 of Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit
- 42. Records of each calibration of the portable hydrocarbon detection instrument utilized for inspecting components, including a copy of current calibration gas certification from the vendor of said calibration gas cylinder, the date of calibration, concentration of calibration gas, instrument reading of calibration gas before adjustment, instrument reading of calibration gas after adjustment, calibration gas expiration date, and calibration gas cylinder pressure at the time of calibration shall be maintained. [District Rule 4401] Federally Enforceable Through Title V Permit
- 43. Operator shall keep a copy of the APCO-approved Operator Management Plan at the facility. [District Rule 4401] Federally Enforceable Through Title V Permit
- 44. By January 30 of each year, an operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to an existing Operator Management Plan. [District Rule 4401] Federally Enforceable Through Title V Permit
- 45. An operator shall maintain copies at the facility of the training records of the training program operated pursuant to Section 6.5 of Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit
- 46. Permittee shall maintain a current roster of all wells connected to this system. [District Rules 2201 and 4401] Federally Enforceable Through Title V Permit
- 47. Records of the VOC content of the gas shall be maintained and made readily available for District inspection upon request for a period of 5 years. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
- 48. All records of required monitoring data and support information shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rules 2520, 9.3.2 and 4401] Federally Enforceable Through Title V Permit

OEHI S-6848, 1133800

ATTACHMENT II Location Map



OEHI S-6848, 1133800

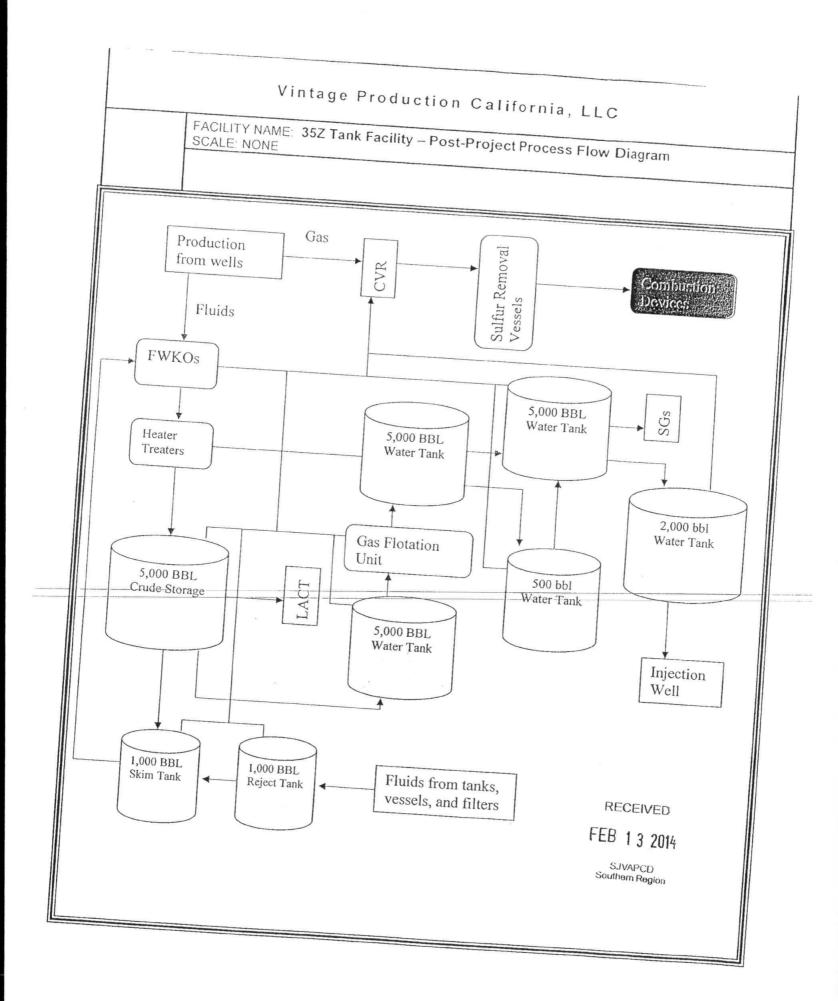
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ATTACHMENT III Process Diagram

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ATTACHMENT IV Tank Emissions Calculations

Vintage Production California LLC 746 BBL FWKO

Fugitive Emissions Using Screening Emission Factors

California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities Table IV-2c. Oil and Gas Production Screening Value Ranges Emission Factors

Percentage of components in vapor service with	0 %
Percentage of components in liquid service with ≥ 10,000 ppmv leaks allowed?	0 %
Weight percentage of VOC in the total organic compounds in gas?	10 %
Weight percentage of VOC in the total organic compounds in oil?	100 %

STATISTICS AND ADDRESS	SERVICE AND	Total allowable			Screening Value EF - TOC		
Equipment Type	Service	Component / Count	leaking components	 Self-participation of a self-self-participation of a self-participation of a self-partici	≥ 10,000 ppmv	VOC emissions (lb/day)	
Valves	Gas/Light Liquid	10	0	1.852E-03	7.333E+00		
	Light Crude Oil	0	0	1.005E-03	3.741E+00	0.00	
	Heavy Crude Oil	0	0	7.408E-04	N/A*	0.00	
Pump Seals	Gas/Light Liquid	0	0	5.270E-02	4.709E+00	0.00	
	Light Crude Oil	0	0	1.402E-02	4.709E+00	0.00	
	Heavy Crude Oil	0	0	N/A	N/A	N/A	
Others	Gas/Light Liquid	10	0	7.778E-03	7.281E+00	0.01	
	Light Crude Oil	0	0	6.931E-03	3.757E-01	0.00	
	Heavy Crude Oil	0	0	3.016E-03	N/A*	0.00	
Connectors	Gas/Light Liquid	0	0	6.349E-04	1.370E+00	0.00	
	Light Crude Oil	0	0	5.291E-04	1.238E+00	0.00	
	Heavy Crude Oil	0	0	4.233E-04	4.233E-04	0.00	
Flanges	Gas/Light Liquid	30	0	1.482E-03	3.228E+00	0.00	
	Light Crude Oil	0	0	1.270E-03	1.376E+01	0.00	
	Heavy Crude Oil	0	0	1.217E-03	N/A*	0.00	
Open-ended	Gas/Light Liquid	0	0	1.270E-03	2.905E+00	0.00	
Lines	Light Crude Oil	0	0	9.524E-04	1.175E+00	0.00	
	Heavy Crude Oil	0	0	7.937E-04	3.762E+00	0.00	

* Emission factor not available. All components from equipment type and service will be assessed as < 10,000 ppmv

Total VOC Emissions =

0.01 lb/day

/16 and 1-17

Vintage Production California LLC 580 BBL Heater Treater

Fugitive Emissions Using Screening Emission Factors

California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities Table IV-2c. Oil and Gas Production Screening Value Ranges Emission Factors

Percentage of components in vapor service with \geq 10,000 ppmv leaks allowed? Percentage of components in liquid service with \geq 10,000 ppmv leaks allowed? Weight percentage of VOC in the total organic compounds in gas? Weight percentage of VOC in the total organic compounds in oil?

「「「「「「「「」」」」			Total allowable	Screening Val	VOC	
Equipment Type	Service	Component Count	leaking components		≥ 10,000 ppmv (lb/day/source)	emissions (lb/day)
Valves	Gas/Light Liquid	10	0	1.852E-03		0.00
	Light Crude Oil	0	0	1.005E-03	3.741E+00	0.00
	Heavy Crude Oil	0	0	7.408E-04	N/A*	0.00
Pump Seals	Gas/Light Liquid	0	0	5.270E-02	4.709E+00	0.00
	Light Crude Oil	0	0	1.402E-02	4.709E+00	0.00
	Heavy Crude Oil	0	0	N/A	N/A	N/A
Others	Gas/Light Liquid	10	0	7.778E-03	7.281E+00	0.01
	Light Crude Oil	0	0	6.931E-03	3.757E-01	0.00
	Heavy Crude Oil	0	0	3.016E-03	N/A*	0.00
Connectors	Gas/Light Liquid	0	0	6.349E-04	1.370E+00	0.00
	Light Crude Oil	0	0	5.291E-04	1.238E+00	0.00
	Heavy Crude Oil	0	0	4.233E-04	4.233E-04	0.00
Flanges	Gas/Light Liquid	30	0	1.482E-03	3.228E+00	0.00
	Light Crude Oil	0	0	1.270E-03	1.376E+01	0.00
	Heavy Crude Oil	0	0	1.217E-03	N/A*	0.00
Open-ended	Gas/Light Liquid	0	0	1.270E-03	2.905E+00	0.00
Lines	Light Crude Oil	0	0	9.524E-04	1.175E+00	0.00
	Heavy Crude Oil	0	0	7.937E-04	3.762E+00	0.00

* Emission factor not available. All components from equipment type and service will be assessed as < 10,000 ppmv

Total VOC Emissions =

0.01 lb/day

118 an2 1-19

0 %

0 %

10 %

100 %

Vintage Production California LLC 5000 BBL Crude Oil Tank

Fugitive Emissions Using Screening Emission Factors

California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities Table IV-2c. Oil and Gas Production Screening Value Ranges Emission Factors

Percentage of components in vapor service with ≥ 10,000 ppmv leaks allowed? Percentage of components in liquid service with ≥ 10,000 ppmv leaks allowed? Weight percentage of VOC in the total organic compounds in gas? Weight percentage of VOC in the total organic compounds in oil?

MERSON AND A			Total allowable	Screening Val	ue EF - TOC	VOC	
Equipment Type	Service	Component Count	leaking components		≥ 10,000 ppmv (lb/day/source)	emissions (Ib/day)	
Valves	Gas/Light Liquid	10	0	1.852E-03	7.333E+00	0.00	
	Light Crude Oil	0	0	1.005E-03	3.741E+00	0.00	
	Heavy Crude Oil	0	0	7.408E-04	N/A*	0.00	
Pump Seals	Gas/Light Liquid	0	0	5.270E-02	4.709E+00	0.00	
	Light Crude Oil	0	0	1.402E-02	4.709E+00	0.00	
	Heavy Crude Oil	0	0	N/A	N/A	N/A	
Others	Gas/Light Liquid	10	0	7.778E-03	7.281E+00	0.01	
	Light Crude Oil	0	0	6.931E-03	3.757E-01	0.00	
	Heavy Crude Oil	0	0	3.016E-03	N/A*	0.00	
Connectors	Gas/Light Liquid	0	0	6.349E-04	1.370E+00	0.00	
	Light Crude Oil	0	0	5.291E-04	1.238E+00	0.00	
	Heavy Crude Oil	0	0	4.233E-04	4.233E-04	0.00	
Flanges	Gas/Light Liquid	30	0	1.482E-03	3.228E+00	0.00	
	Light Crude Oil	0	0	1.270E-03	1.376E+01	0.00	
	Heavy Crude Oil	0	0	1.217E-03	N/A*	0.00	
Open-ended	Gas/Light Liquid	0	0	1.270E-03	2.905E+00	0.00	
Lines	Light Crude Oil	0	0	9.524E-04	1.175E+00	0.00	
	Heavy Crude Oil	0	0	7.937E-04	3.762E+00	0.00	

* Emission factor not available. All components from equipment type and service will be assessed as < 10,000 ppmv

Total VOC Emissions =

0 % 0 %

10 % 100 %

0.01 lb/day

1,20

Vintage Production California LLC 5000 BBL Water Tank

Fugitive Emissions Using Screening Emission Factors

California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities Table IV-2c. Oil and Gas Production Screening Value Ranges Emission Factors

Percentage of components in vapor service with $\geq 10,000$ ppmv leaks allowed? Percentage of components in liquid service with $\geq 10,000$ ppmv leaks allowed? Weight percentage of VOC in the total organic compounds in gas? Weight percentage of VOC in the total organic compounds in oil?

	State State State	Sector Base Sector	Total allowable	Screening Val	VOC	
Equipment Type	Service	Component Count	leaking components		> 10,000 ppmv (lb/day/source)	emissions (lb/day)
Valves	Gas/Light Liquid	10	0	1.852E-03		0.00
	Light Crude Oil	0	0	1.005E-03		0.00
	Heavy Crude Oil	0	0	7.408E-04	N/A*	0.00
Pump Seals	Gas/Light Liquid	0	0	5.270E-02		0.00
	Light Crude Oil	0	0	1.402E-02	4.709E+00	0.00
	Heavy Crude Oil	0	0	N/A	N/A	N/A
Others	Gas/Light Liquid	10	0	7.778E-03	7.281E+00	0.01
	Light Crude Oil	0	0	6.931E-03	3.757E-01	0.00
	Heavy Crude Oil	0	0	3.016E-03	N/A*	0.00
Connectors	Gas/Light Liquid	0	0	6.349E-04	1.370E+00	0.00
	Light Crude Oil	0	0	5.291E-04	1.238E+00	0.00
	Heavy Crude Oil	0	0	4.233E-04	4.233E-04	0.00
Flanges	Gas/Light Liquid	30	0	1.482E-03	3.228E+00	0.00
	Light Crude Oil	0	0	1.270E-03	1.376E+01	0.00
	Heavy Crude Oil	0	0	1.217E-03	N/A*	0.00
Open-ended	Gas/Light Liquid	0	0	1.270E-03	2.905E+00	0.00
Lines ·	Light Crude Oil	0	0	9.524E-04	1.175E+00	0.00
	Heavy Crude Oil	0	0	7.937E-04	3.762E+00	0.00

Emission factor not available. All components from equipment type and service will be assessed as < 10,000 ppmv

Total VOC Emissions =

0 %

0%

10 %

100 %

0.01 lb/day

1-21 thru 1-24

Vintage Production California LLC 2000 BBL Water Tank

Fugitive Emissions Using Screening Emission Factors

California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities Table IV-2c. Oil and Gas Production Screening Value Ranges Emission Factors

Percentage of components in vapor service with \geq 10,000 ppmv leaks allowed? Percentage of components in liquid service with \geq 10,000 ppmv leaks allowed? Weight percentage of VOC in the total organic compounds in gas? Weight percentage of VOC in the total organic compounds in oil?

		HALL BEAM	Total allowable	Screening Val	Screening Value EF - TOC		
Equipment Type	Service	Component Count	leaking components		≥ 10,000 ppmv (lb/day/source)	emissions (Ib/day)	
Valves	Gas/Light Liquid	10	0	1.852E-03	and the second se	0.00	
	Light Crude Oil	0	0	1.005E-03	3.741E+00	0.00	
	Heavy Crude Oil	0	0	7.408E-04	N/A*	0.00	
Pump Seals	Gas/Light Liquid	0	0	5.270E-02	4.709E+00	0.00	
	Light Crude Oil	0	0	1.402E-02	4.709E+00	0.00	
	Heavy Crude Oil	0	0	N/A	N/A	N/A	
Others	Gas/Light Liquid	10	0	7.778E-03	7.281E+00	0.01	
	Light Crude Oil	0	0	6.931E-03	3.757E-01	0.00	
	Heavy Crude Oil	0	0	3.016E-03	N/A*	0.00	
Connectors	Gas/Light Liquid	0	0	6.349E-04	1.370E+00	0.00	
	Light Crude Oil	0	0	5.291E-04	1.238E+00	0.00	
	Heavy Crude Oil	0	0	4.233E-04	4.233E-04	0.00	
Flanges	Gas/Light Liquid	30	0	1.482E-03	3.228E+00	0.00	
	Light Crude Oil	0	0	1.270E-03	1.376E+01	0.00	
	Heavy Crude Oil	0	0	1.217E-03	N/A*	0.00	
Open-ended	Gas/Light Liquid	0	0	1.270E-03	2.905E+00	0.00	
Lines	Light Crude Oil	0	0	9.524E-04	1.175E+00	0.00	
	Heavy Crude Oil	0	0	7.937E-04	3.762E+00	0.00	

* Emission factor not available. All components from equipment type and service will be assessed as < 10,000 ppmv

Total VOC Emissions =

0 % 0 %

10 %

100 %

0.01 lb/day

1,25

Vintage Production California LLC 1000 BBL Water Tank

Fugitive Emissions Using Screening Emission Factors

California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities Table IV-2c. Oil and Gas Production Screening Value Ranges Emission Factors

Percentage of components in vapor service with ≥ 10,000 ppmv leaks allowed?	0 %
Percentage of components in liquid service with ≥ 10,000 ppmv leaks allowed?	0 %
Weight percentage of VOC in the total organic compounds in gas?	10 %
Weight percentage of VOC in the total organic compounds in oil?	100 %

A DECEMBER OF			Total allowable	Screening Val	VOC	
Equipment Type	Service	Component Count	leaking components		≥ 10,000 ppmv (lb/day/source)	emissions (lb/day)
Valves	Gas/Light Liquid	10	0	1.852E-03	7.333E+00	0.00
	Light Crude Oil	0	0	1.005E-03	3.741E+00	0.00
	Heavy Crude Oil	0	0	7.408E-04	N/A*	0.00
Pump Seals	Gas/Light Liquid	0	0	5.270E-02	4.709E+00	0.00
	Light Crude Oil	0	0	1.402E-02	4.709E+00	0.00
	Heavy Crude Oil	0	0	N/A	N/A	N/A
Others	Gas/Light Liquid	10	0	7.778E-03	7.281E+00	0.01
	Light Crude Oil	0	0	6.931E-03	3.757E-01	0.00
	Heavy Crude Oil	0	0	3.016E-03	N/A*	0.00
Connectors	Gas/Light Liquid	0	0	6.349E-04	1.370E+00	0.00
	Light Crude Oil	0	0	5.291E-04	· 1.238E+00	0.00
	Heavy Crude Oil	0	0	4.233E-04	4.233E-04	0.00
Flanges	Gas/Light Liquid	30	0	1.482E-03	3.228E+00	0.00
	Light Crude Oil	0	0	1.270E-03	1.376E+01	0.00
	Heavy Crude Oil	0	0	1.217E-03	N/A*	0.00
Open-ended	Gas/Light Liquid	0	0	1.270E-03	2.905E+00	0.00
Lines	Light Crude Oil	0	0	9.524E-04	1.175E+00	0.00
	Heavy Crude Oil	0	0	7.937E-04	3.762E+00	0.00

* Emission factor not available. All components from equipment type and service will be assessed as < 10,000 ppmv

Total VOC Emissions =

0.01 lb/day

1,27

Vintage Production California LLC 1000 BBL Crude Oil Tank

Fugitive Emissions Using Screening Emission Factors

<u>California Implementation Guidelines for Estimating Mass Emissions</u> of Fugitive Hydrocarbon Leaks at Petroleum Facilities Table IV-2c. Oil and Gas Production Screening Value Ranges Emission Factors

Percentage of components in vapor service with \geq 10,000 ppmv leaks allowed?	0 %
Percentage of components in liquid service with \geq 10,000 ppmv leaks allowed?	0 %
Weight percentage of VOC in the total organic compounds in gas?	10 %
Weight percentage of VOC in the total organic compounds in oil?	100 %

STATE SALES	SALASSA ARAD PARAMANAN		Total allowable	Screening Val	VOC	
Equipment Type	Service	Component Count	leaking components		> 10,000 ppmv (lb/day/source)	emissions (lb/day)
Valves	Gas/Light Liquid	10	0	1.852E-03	7.333E+00	0.00
	Light Crude Oil	0	0	1.005E-03	3.741E+00	0.00
	Heavy Crude Oil	0	0	7.408E-04	N/A*	0.00
Pump Seals	Gas/Light Liquid	0	0	5.270E-02	4.709E+00	0.00
	Light Crude Oil	0	0	1.402E-02	4.709E+00	0.00
	Heavy Crude Oil	0	0	N/A	N/A	N/A
Others	Gas/Light Liquid	10	0	7.778E-03	7.281E+00	0.01
	Light Crude Oil	0	0	6.931E-03	3.757E-01	0.00
	Heavy Crude Oil	0	0	3.016E-03	N/A*	0.00
Connectors	Gas/Light Liquid	0	0	6.349E-04	1.370E+00	0.00
	Light Crude Oil	0	0	5.291E-04	1.238E+00	0.00
	Heavy Crude Oil	0	0	4.233E-04	4.233E-04	0.00
Flanges	Gas/Light Liquid	. 30	0	1.482E-03	3.228E+00	0.00
	Light Crude Oil	0	0	1.270E-03	1.376E+01	0.00
	Heavy Crude Oil	0	0	1.217E-03	N/A*	0.00
Open-ended	Gas/Light Liquid	0	0	1.270E-03	2.905E+00	0.00
Lines	Light Crude Oil	0	0	9.524E-04	1.175E+00	0.00
	Heavy Crude Oil	0	0	7.937E-04	3.762E+00	

* Emission factor not available. All components from equipment type and service will be assessed as < 10,000 ppmv

Total VOC Emissions =

0.01 lb/day

1-32

OEHI S-6848, 1133800

ATTACHMENT V Gas Analyses

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OILFIELD ENVIRONMENTAL AND COMPLIANCE

Client: Vintage Production	SAMPLE ID: 1303260-1
3400 Calloway Drive, Bldg. 100	Dale Sampled: 07/12/13 @ 1058
Bakersfield, CA 93312	Date Analyzed: 07/12/13 @ 1848
Attn: Dale Chambers	Lab Contact: J. Carstens
Facility: McKittrick	Meter:
Description: Well 78S @ 35-Z	Pressure: 112 psig
Note: New Well Testing	Temp: 107 °F

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E-260 Mod.								
Component	Mole %		Welgl	nt %	GIMCF			
Oxygen	0.00		0.0		•			
Nitrogen	0.35		0.5		•			
Carbon Dioxide	12.78		28.2		•			
Hydrogen Sulfide	0.00		0.0	0	-			
Melhane	85.91		69.4		-			
Elhane	0.73			0	0.185			
Propane	0.12		0.2		0.034			
I-Butane	0.05		0.1		0.017			
n-Bulane	0.04		0.1	1 1 1 4	0.012			
neo-Penlane	0.00		0.0	i / I	0.000			
i-Pentane	0.01		0.0		0.005			
n-Penlane	0.01		0.0		0.004			
2,2-Dimethylbutane	0.00		0.0		0.000			
2,3-Dimethylbutane	0.00		0.0		0.000			
2-Methylpentane	0.00		0.0		0.000			
3-Methylpentane	0.00		0.0		0.000			
n-Hexane	0.00		0.0	-	0.000			
Hexanes Plus	0.02		. 0 .0	7	0.007			
Totals	100.0		100.	0	0.264			
Specific Gravity, Calculated	0.6855	air = 1						
Compressibility (Z) Factor	0.9976			CHONS	Weight %			
				Cerbon	61.15			
Gross Calorific Value				Hydrogen	17.79			
BTU/ft ³ dry	888.3			Охудел	20.58			
BTU/ft ³ wet	872.9			Nitrogen	0.50			
				Sulfur	0.00			
Net Celorific Value				_				
BTU/ft ³ dry	800.2		EPA 'F'	Factor (60°F, 1ATM)	8637			
BTU/ft ³ wel	786.3		SDCF/M	MBTU				
Hydrogen Sulfide ≈ 1.9	ppm		VOC'S	(% by wt. C3+)	0.70			
All results reported at 60°F and	d 14.698 psia.				·			
ND: None Detected	NA: Not Analyzed		G/MCF· (Gallons/Thousand Cul	bic Feel			

307 ROEMER WAY SUITE 300 SANTA MARIA I CA 93453 (805)922-4772 FAX (805)925-3376 OBCUSO.com

OEHI S-6848, 1133800

ATTACHMENT VI Emissions Profile

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2/28/14 9:32 am

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Permit #: S-6848-15-2	Last Updated
Facility: OCCIDENTAL OF ELK HILLS INC	02/15/2014 EDGEHILR

Equipment Pre-Baselined: NO	NOX	<u>sox</u>	PM10	<u>co</u>	VOC
Potential to Emit (lb/Yr):	0.0	0.0	0.0	0.0	0.0
Daily Emis. Limit (lb/Day)	0.0	0.0	0.0	0.0	0.0
Quarteriy Net Emissions Change (lb/Qtr)					
Q1:	0,0	0,0	0.0	0.0	0.0
Q2:	0.0	0.0	0.0	0.0	0.0
Q3:	0.0	0.0	0.0	0.0	0.0
Q4:	0.0	0.0	0.0	0.0	0.0
Check if offsets are triggered but exemption applies	N	N	N	N	N
Offset Ratio					
Quarterly Offset Amounts (Ib/Qtr)					
Q1:					
Q2:					
Q3:					
Q4:					

2/28/14 9:33 am

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Permit #: S-6848-16-0	Last Updated
Facility: OCCIDENTAL OF ELK HILLS INC	10/06/2013 EDGEHILR

uipment Pre-Baselined: NO	<u>NOX</u>	<u>sox</u>	<u>PM10</u>	<u>co</u>	voc
Potentlal to Emit (lb/Yr):	0.0	0.0	0.0	0.0	0.0
Daily Emis. Limit (lb/Day)	0.0	0.0	0.0	0.0	0.0
Quarterly Net Emissions Change (lb/Qtr)					
Q1:	0.0	0.0	0.0	0.0	0.0
Q2:	0.0	0.0	0.0	0.0	0.0
Q3:	0.0	0,0	0.0	0.0	0.0
Q4:	0.0	0.0	0.0	0.0	0.0
Check if offsets are triggered but exemption applies	N	N	N	N	N
Offset Ratio				······	
Quarterly Offset Amounts (lb/Qtr)	·····				
Q1:					·
Q2:					
Q3:					
Q4:				— ·	

10/13/13 3:54 pm

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Permit #: S-6848-17-0	Last Updated
Facility: OCCIDENTAL OF ELK HILLS INC	10/06/2013 EDGEHILR

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ipment Pre-Baselined: NO	<u>NOX</u>	<u>SOX</u>	<u>PM10</u>	<u>C0</u>	VOC
Potential to Emit (lb/Yr):	0.0	0.0	0.0	0.0	0.0
Daily Emis. Limit (lb/Day)	0.0	0.0	0.0	0.0	0.0
Quarterly Net Emissions Change (lb/Qtr)					
Q1:	0.0	0.0	0.0	0.0	0.0
Q2:	0.0	0.0	0.0	0.0	0.0
Q3:	0.0	0.0	0.0	0.0	0.0
Q4:	0.0	0.0	0.0	0.0	0.0
Check if offsets are Iriggered but exemption applies	N	N	N	N	N
Offset Ratio					
Quarterly Offset Amounts (lb/Qtr)				·	<u>.</u>
Q1:					
Q2:					
Q3:		*** ·			
Q4:					

SJVUAPCD SOUTHERN

Application Emissions

10/13/13 3:54 pm

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Permit #: S-6848-18-0 Last Updated					
Facility: OCCIDENTAL OF ELK HILLS INC	10/06/2013 EDGEHILR				

Equipment Pre-Baselined: NO

ipment Pre-Baselined: NO	<u>NOX</u>	<u>sox</u>	<u>PM10</u>	<u>co</u>	voc
Potential to Emit (Ib/Yr):	0.0	0.0	0.0	0.0	0.0
Daily Emis. Limit (Ib/Day)	0.0	0.0	0.0	0.0	0.0
Quarterly Net Emissions Change (lb/Qtr)					
Q1:	0.0	0.0	0.0	0.0	0.0
Q2:	0.0	0.0	0.0	0.0	0.0
Q3:	0.0	0.0	0.0	0.0	0.0
Q4:	0.0	0.0	0.0	0.0	0.0
Check if offsets are triggered but exemption applies	N	N	N	N	N
Offset Ratio					
Quarterly Offsel Amounts (lb/Qtr)					·
Q1:				·······	·····
Q2:		· ··			
Q3:					
Q4:					· · · · · · · · · · · · · · · · · · ·

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10/13/13 3:54 pm

Permit #: S-6848-19-0	Last Updated
Facility: OCCIDENTAL OF ELK HILLS INC	10/06/2013 EDGEHILR

upment Pre-Baselined: NO	<u>NOX</u>	<u>SOX</u>	<u>PM10</u>	<u>co</u>	VOC
Potential to Emit (lb/Yr):	0.0	0.0	0.0	0.0	0.0
Dally Emis, Limit (lb/Day)	0.0	0.0	0.0	0.0	0.0
Quarterly Net Emissions Change (lb/Qtr)				·····	
Q1;	0.0	0.0	0.0	0.0	0.0
Q2:	0.0	0.0	0.0	0.0	0.0
Q3:	0.0	0.0	0.0	0.0	0.0
Q4:	0.0	0.0	0.0	0.0	0.0
Check If offsets are triggered but exemption applies	N	N	N	N	N
Offset Ratio					
Quarterly Offset Amounts (Ib/Qtr)					
Q1:					
Q2:					
Q3:		· · · · · · · · · · · · · · · · · · ·	·····		
Q4:					

10/13/13 3:54 pm

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Permit #: S-6848-20-0 Last Updated					
Facility: OCCIDENTAL OF ELK HILLS INC	10/06/2013	EDGEHILR			

upment Pre-Baselined: NO	<u>NOX</u>	<u>sox</u>	<u>PM10</u>	<u>co</u>	voc
Potential to Emit (Ib/Yr)	0.0	0.0	0.0	0.0	0.0
Daily Emis. Limit (Ib/Day)	0.0	0.0	0.0	0.0	0.0
Quarterly Net Emissions Change (lb/Qtr)					
Q1:	0.0	0.0	0.0	0.0	0.0
Q2:	0.0	0.0	0.0	0.0	0.0
Q3:	0.0	0.0	0.0	0.0	0.0
Q4:	0.0	0.0	0.0	0.0	0.0
Check if offsets are triggered but exemption applies	N	N	N	N	N
Offset Ratio					
Quarterly Offset Amounts (lb/Qtr)	 ,				
Q1:	· · · ·	· · · · ·			l .
Q2:			[]		1
Q3:					
Q4:					

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10/13/13 3:54 pm

Permit #: S-6848-21-0	Last Updated
Facility: OCCIDENTAL OF ELK HILLS INC	10/06/2013 EDGEHILR

quipment Pre-Baselined: NO	<u>NOX</u>	<u>sox</u>	PM10	<u>co</u>	voc
Potential to Emit (lb/Yr):	0.0	0.0	0.0	0.0	0.0
Daily Emis. Limit (Ib/Day)	0.0	0.0	0.0	0.0	0.0
Quarterly Net Emissions Change (lb/Qtr)					
Q1:	0.0	0.0	0.0	0.0	0.0
Q2;	0.0	0.0	0.0	0.0	0.0
Q3:	0.0	0.0	0.0	0.0	0.0
Q4:	0.0	0.0	0.0	0.0	0.0
Check if offsets are triggered but exemption applies	N	N	N	Ν	N
Offset Ratio					
Quarterly Offset Amounts (lb/Qtr)					
Q1:				·	· · · · ·
Q2:					
Q3:					
Q4:		·····			

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Permit #: S-6848-22-0	Last Updated
Facility: OCCIDENTAL OF ELK HILLS INC	10/06/2013 EDGEHILR

uipment Pre-Baselined: NO	<u>NOX</u>	<u>SOX</u>	PM10	co	voc
Potential to Emit (lb/Yr):	0.0	0.0	0.0	0.0	0.0
Daily Emis. Limit (lb/Day)	0.0	0.0	0.0	0.0	0.0
Quarterly Net Emissions Change (lb/Qtr)					
Q1:	0.0	0.0	0.0	0.0	0.0
Q2:	0.0	0.0	0.0	0.0	0.0
Q3:	0.0	0.0	0.0	0.0	0.0
Q4;	0.0	0.0	0.0	0.0	0.0
Check if offsets are triggered but exemption applies	N	N	N	N	N
Offset Ratio					
Quarterly Offset Amounts (lb/Qtr)					
Q1:				•	
Q2:					
Q3:					
Q4:			·	·	

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10/13/13 3:54 pm

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Permit #: S-6848-23-0	Last Updated
Facility: OCCIDENTAL OF ELK HILLS INC	10/06/2013 EDGEHILR

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upment Pre-Baselined: NO	<u>NOX</u>	<u>sox</u>	<u>PM10</u>	<u>co</u>	<u>voc</u>
Polential to Emit (lb/Yr):	0.0	0.0	0.0	0.0	0.0
Daily Emis. Limit (lb/Day)	0.0	0.0	0.0	0.0	0.0
Quarterly Net Emissions Change (lb/Qtr)					
Q1:	0.0	0.0	0.0	0.0	0.0
Q2:	0.0	0.0	0.0	0.0	0.0
Q3:	0.0	0.0	0.0	0.0	0.0
Q4:	0.0	0.0	0.0	0.0	0.0
Check if offsets are triggered but exemption applies	N	N	N	N	N
Offset Ratio		······			
Quarterly Offset Amounts (lb/Qtr)					
Q1:					
Q2:					
Q3:				· · · · · · · · · · ·	
Q4:					

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Permit #: S-6848-24-0 Last Updated Facility: OCCIDENTAL OF 10/06/2013 EDGEHILR ELK HILLS INC

Equipment Pre-Baselined: NO

quipment Pre-Baselined: NO	<u>NOX</u>	<u>sox</u>	<u>PM10</u>	<u>co</u>	voc
Potential to Emit (lb/Yr):	0.0	0.0	0.0	0.0	0.0
Daily Emis. Limit (lb/Day)	0.0	0.0	0.0	0.0	0.0
Quarterly Net Emissions Change (lb/Qtr)					
Q1:	0.0	0.0	0.0	0.0	0.0
Q2:	0.0	0.0	0.0	0.0	0.0
Q3:	0.0	0.0	0.0	0.0	0.0
Q4:	0.0	0.0	0.0	0.0	0.0
Check if offsets are triggered but exemption applies	N	N	N	N	N
Offset Ratio					
Quarterly Offset Amounts (Ib/Qtr)					
Q1:					
Q2:					
Q3:				· · · · ·	** · · ···
Q4:					

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10/13/13 3:54 pm

Permit #: S-6848-25-0	Last Updated
Facility: OCCIDENTAL OF	10/06/2013 EDGEHILR

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Ipment Pre-Baselined: NO	<u>NOX</u>	<u>sox</u>	<u>PM10</u>	<u>co</u>	voc
Potential to Emit (lb/Yr):	0.0	0.0	0.0	0.0	0.0
Daily Emis. Limit (lb/Day)	0.0	0.0	0.0	0.0	0.0
Quarterly Net Emissions Change (lb/Qtr)					
Q1:	0.0	0.0	0.0	0.0	0.0
Q2:	0.0	0.0	0.0	0.0	0.0
Q3:	0.0	0.0	0.0	0.0	0.0
Q4:	0.0	0.0	0.0	0.0	0.0
Check If offsets are triggered but exemption applies	N	N	N	N	N
Offset Ratio					
Quarterly Offset Amounts (Ib/Qtr)					
Q1:		····		,	<u></u>
Q2:			·······		
Q3:					ŀ
Q4:				·····	

Application Emissions

10/13/13 3:54 pm

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Permit #: S-6848-26-0	Last Updated
Facility: OCCIDENTAL OF ELK HILLS INC	10/06/2013 EDGEHILR

upment Pre-Baselined: NO	<u>NOX</u>	<u>sox</u>	<u>PM10</u>	<u>co</u>	Voc
Potential to Emit (lb/Yr):	0.0	0.0	0.0	0.0	0.0
Dally Emis. Limit (lb/Day)	0.0	0.0	0.0	0.0	0.0
Quarterly Net Emissions Change (lb/Qtr)					
Q1:	0.0	0.0	0.0	0.0	0.0
Q2:	0.0	0.0	0.0	0.0	0.0
Q3;	0.0	0.0	0.0	0.0	0.0
Q4:	0.0	0.0	0.0	0.0	0.0
Check if offsets are triggered but exemption applies	N	N	N	N	N
Offset Ratio					
Quarterly Offset Amounts (lb/Qtr)					
Q1:		· · · · ·			
Q2:				·	
Q3:					
Q4:				····	

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10/13/13 3:54 pm

Permit #: S-6848-27-0	Last Updated
Facility: OCCIDENTAL OF ELK HILLS INC	10/06/2013 EDGEHILR

Equipment Pre-Baselined: NO

ulpment Pre-Baselined: NO	<u>NOX</u>	<u>sox</u>	<u>PM10</u>	<u>co</u>	VOC
Potential to Emit (lb/Yr):	0.0	0.0	0.0	0.0	0.0
Daily Emis. Limit (lb/Day)	0.0	0.0	0.0	0.0	0.0
Quarterly Net Emissions Change (lb/Qtr)			·		
Q1:	0.0	0.0	0.0	0.0	0.0
Q2:	0.0	0.0	0.0	0.0	0.0
Q3:	0.0	0.0	0.0	0.0	0.0
Q4:	0.0	0.0	0.0	0.0	0.0
Check if offsets are triggered but exemption applies	N	N	N	N	N
Offset Ratio					
Quarterly Offset Amounts (lb/Qtr)					
Q1:		······			
Q2:					
Q3:				·····	
Q4:					

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10/13/13 3:54 pm ċ

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Permit #: S-6848-28-0	Last Updated	
Facility: OCCIDENTAL OF ELK HILLS INC	10/06/2013	EDGEHILR

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Equipment Pre-Baselined: NO

Ipment Pre-Baselined: NO	<u>NOX</u>	<u>sox</u>	<u>PM10</u>	<u>co</u>	<u>voc</u>
Potential to Emit (lb/Yr):	0.0	0.0	0.0	0.0	0.0
Daily Emis. Limit (Ib/Day)	0.0	0.0	0.0	0.0	0.0
Quarterly Net Emissions Change (lb/Qtr)					
Q1:	0.0	0.0	0.0	0.0	0.0
Q2:	0.0	0.0	0.0	0.0	0.0
Q3:	0.0	0.0	0.0	0.0	0.0
Q4:	0.0	0.0	0.0	0.0	0.0
Check if offsets are triggered but exemption applies	N	N	N	N	N
Offset Ratio	·····				
Quarterly Offset Amounts (lb/Qtr)					
Q1:			 		
Q2:					
Q3:					
Q4:					·

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Permit #: S-6848-29-0	Last Updated
Facility: OCCIDENTAL OF ELK HILLS INC	10/06/2013 EDGEHILR

Equipment Pre-Baselined: NO

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upment Pre-Baselined: NO	NOX	<u>SOX</u>	<u>PM10</u>	<u>co</u>	VOC
Potential to Emit (Ib/Yr):	0.0	0.0	0.0	0.0	0.0
Daily Emis. Limit (lb/Day)	0.0	0.0	0.0	0.0	0.0
Quarterly Net Emissions Change (lb/Qtr)				<u> </u>	
Q1:	0.0	0.0	0.0	0.0	0.0
Q2:	0.0	0.0	0.0	0.0	0.0
Q3:	0.0	0.0	0.0	0.0	0.0
Q4:	0.0	0.0	0.0	0.0	0.0
Check if offsets are triggered but exemption applies	N	N	N	N	N
Offset Ratio					
Quarterly Offset Amounts (lb/Qtr)					
Q1:		·····			·
Q2:					
Q3:				· · · · · · · · · · · · ·	[
Q4:					

10/13/13 3:54 pm

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Permit #: S-6848-30-0	Last Updated
Facility: OCCIDENTAL OF ELK HILLS INC	10/06/2013 EDGEHILR

Equipment Pre-Baselined: NO

ulpment Pre-Baselined: NO	<u>NOX</u>	<u>sox</u>	<u>PM10</u>	<u>co</u>	<u>voc</u>
Potential to Emit (lb/Yr):	0.0	0.0	0.0	0.0	0.0
Daily Emis. Limit (Ib/Day)	0.0	0.0	0.0	0.0	0.0
Quarterly Net Emissions Change (lb/Qtr)					· · · · · · · · · · · · · · · · · · ·
Q1:	0.0	0.0	0.0	0.0	0.0
Q2:	0.0	0.0	0.0	0.0	0.0
Q3:	0.0	0.0	0.0	0.0	0.0
Q4:	0.0	0.0	0.0	0.0	0.0
Check if offsets are triggered but exemption applies	N	N	N	N	N
Offset Ratio		····			
Quarterly Offset Amounts (lb/Qtr)					
Q1:			<u> </u> →		r
Q2:					
Q3:					·····
Q4:					

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2/28/14 9:34 am

Permit #: S-6848-31-0	Last Updated
Facility: OCCIDENTAL OF ELK HILLS INC	02/15/2014 EDGEHILR

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Equipment	Pre-Baselined:	NO
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uipment Pre-Baselined: NO	<u>NOX</u>	<u>sox</u>	<u>PM10</u>	<u>co</u>	VOC
Potential to Emit (lb/Yr):	0.0	0.0	0.0	0.0	0.0
Daily Emis. Limit (Ib/Day)	0.0	0.0	0.0	0.0	0.0
Quarterly Net Emissions Change (lb/Qtr)					
Q1:	0.0	0,0	0.0	0.0	0.0
Q2:	0.0	0.0	0.0	0.0	0.0
Q3:	0.0	0.0	0.0	0.0	0.0
Q4:	0.0	0.0	0.0	0.0	0.0
Check if offsets are triggered but exemption applies	N	N	N	N	N
Offset Ratio					
Quarterly Offset Amounts (lb/Qtr)	<u> </u>				_
Q1:					····
Q2:		· · · · · ·			
Q3.					
Q4:				· · · · ·	

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2/28/14 9:34 am

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Permit #: S-6848-32-0	Last Update	d
Facility: OCCIDENTAL OF ELK HILLS INC	02/15/2014	EDGEHILR

uipment Pre-Baselined: NO	<u>NOX</u>	<u>sox</u>	PM10	<u>co</u>	voc
Potential to Emit (lb/Yr):	2154.0	1597.0	253.0	11722.0	1996.0
Dally Emis. Limit (lb/Day)	57.8	53.2	8.4	314.5	66.5
Quarterly Net Emissions Change (lb/Qtr)					<u>.</u>
Q1:	538.0	399.0	63.0	2930.0	499.0
Q2:	538.0	399.0	63.0	2930.0	499.0
Q3:	539.0	399.0	63.0	2931.0	499.0
Q4:	539.0	400.0	64.0	2931.0	499.0
Check if offsets are triggered but exemption applies	N	N	N	N	N
Offset Ratio	1.5		1.5		1.5
Quarterly Offset Amounts (lb/Qtr)					
Q1:	808.0		95.0		749.0
Q2:	808.0		95.0		749.0
Q3:	808.0		95.0		749.0
Q4:	808.0		95.0		749.0

OEHI S-6848, 1133800

ATTACHMENT VII BACT Guidelines

San Joaquin Valley Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 1.4.1* Last Updale 11/9/1995

Waste Gas Flare - 15.3 MMBtu/hr, Serving a Tank Vapor Control System

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
co	Steam-assisted or air- assisted when steam unavallable		
NOx	Steam-assisted or air- assisted when steam unavailable		
PM10	Steam-assisted with smokeless combustion or Air-assisted flare with smokeless combustion when steam unavallable. Pilot Light Fired Solely on LPG or Natural Gas		
SOx	Pilot Light Fired Solely on LPG or Natural Gas		
VOC	Steam-assisted or air- assisted when stesm unavailable		

BACT is the most stringent control technique for the emissions unit and class of source. Control techniques that are not achieved in practice or contained in s a state implementation plan must be cost effective as well as feasible. Economic analysis to demonstrate cost effectiveness is required for all determinations that are not achieved in practice or contained in an EPA approved State Implementation Plan.

*This is a Summary Page for this Class of Source

San Joaquin Valley Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 1.4.2*

Last Update 12/31/1998

Waste Gas Flare - Incinerating Produced Gas

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
со	Steam assisted or Air- essisted or Coanda effect bumer, when steam unavailable		
NOx	Steam assisted or Air- assisted or Coanda effect burner, when steam unavailable		· ·
PM10	Steam assisted or Air- assisted or Coanda effect burner, when steam unavailable		······
	Pilot Light fired solely on LPG or natural gas.		
SOx	Steam assisted or Air- assisted or Coanda effect burner, when steam unavailable	Precombustion SOx scrubbing systam (non-emergency flares only.)	
	Pilot Light fired solely on LPG or natural gas.		
voc	Steam assisted or Air- assisted or Coanda effect burner, when steam unavailable		

BACT is the most stringent control technique for the emissions unit and class of source. Control techniques that are not achieved in practice or contained in s a state implementation plan must be cost effective es well as feasible. Economic analysis to demonstrate cost effectiveness is required for ell daterminations that are not achieved in practice or contained in an EPA approved State implementation Plan.

*This is a Summary Page for this Class of Source

ATTACHMENT VIII BACT Analysis

BACT Guidelines 1.4.1 and 1.4.2, apply to Waste Gas Flare – Serving Tank Vapor Control System and Incinerating Produced Gas

Top Down BACT Analysis for NOx, CO, and VOC emissions:

Step 1 - Identify All Control Technologies

Steam assisted or air-assisted or Coanda effect burner, when steam unavailable (Achieved in Practice)

Step 2 - Eliminate Technologically Infeasible Options

Steam assisted as steam is unavailable at the site.

Step 3 - Rank Remaining Control Technologies by Control Effectiveness

Air-assisted or Coanda effect burner, when steam unavailable (Achieved in Practice)

Step 4 - Cost Effectiveness Analysis

Applicant has proposed the one remaining option from Step 1, air-assisted. Therefore, a cost analysis is not required.

Step 5 - Select BACT

The flare is air-assisted. Therefore BACT is satisfied.

Top Down BACT Analysis for SOx emissions:

Step 1 - Identify All Control Technologies

Steam assisted or air-assisted or Coanda effect burner, when steam unavailable. Pilot light fired on LPG or natural gas. (Achieved in Practice)

Precombustion SOx scrubbing system (nonemergency flares only)

Step 2 - Eliminate Technologically Infeasible Options

Steam assisted as steam is unavailable at the site.

Step 3 - Rank Remaining Control Technologies by Control Effectiveness

Precombustion SOx scrubbing system (nonemergency flares only)

Air-assisted with smokeless combustion. Pilot light fired on LPG or natural gas. (Achieved in Practice)

Step 4 - Cost Effectiveness Analysis

Applicant has proposed both of the above options from Step 1, steam-assisted with smokeless combustion, pilot light fired on process (natural) gas, precombustion SOx scrubbing system. Therefore, a cost analysis is not required.

Step 5 - Select BACT

The flare is steam assisted, smokeless combustion, pilot light is fired on process (natural) gas, and precombustion SOx scrubbing system. Therefore BACT is satisfied.

Top Down BACT Analysis for PM10 emissions:

Step 1 - Identify All Control Technologies

Steam-assisted with smokeless combustion or air-assisted flare with smokeless combustion when steam is unavailable. Pilot light fired on LPG or natural gas. (Achieved in Practice)

Step 2 - Eliminate Technologically Infeasible Options

Steam assisted as steam is unavailable at the site.

Step 3 - Rank Remaining Control Technologies by Control Effectiveness

Air-assisted with smokeless combustion. Pilot light fired on LPG or natural gas. (Achieved in Practice)

Step 4 - Cost Effectiveness Analysis

Applicant has proposed the one remaining option from Step 1, air-assisted with smokeless combustion. Pilot light fired on process (natural) gas. Therefore, a cost analysis is not required.

Step 5 - Select BACT

The flare is air assisted with smokeless combustion. Therefore BACT is satisfied.

OEHI S-6848, 1133800

ATTACHMENT IX HRA/AAQA Model

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San Joaquin Valley Air Pollution Control District Risk Management Review

То:	Richard Edgehill, AQE - Permit Services
From:	Ester Davila, SAQS - Technical Services
Date:	October 4, 2013
Facility Name:	Occidental of Elk Hills
Location:	HOWSS Section: 35, Township: 30S, Range: 22E
Application #(s):	S-6848-8-3,'-16-0 through 40-0
Project #:	S-1133800

A. RMR SUMMARY

RMR Summary					
Categories	Tanks & Vessels (Units 8-3,'-16-0 to 39-0)	35.42 MMBtu/hr Flare (Unit 40-0)	Project Totais	Facility Totais	
Prioritization Score	0.0	0.02	0.02	0.09	
Acute Hazard Index	N/A ¹	N/A ¹	N/A	N/A	
Chronic Hazard Index	N/A ¹	N/A ¹	N/A	N/A	
Maximum Individual Cancer Risk (10 ⁻⁶)	N/A ¹	N/A ¹	N/A	N/A	
T-BACT Required?	No	No			
Special Permit Conditions?	No	No			

1 This project passed on prioritization; no further anelysis is required.

Proposed Permit Conditions

To ensure that human health risks will not exceed District allowable levels; the following permit conditions must be included for:

Unit #s S-6848-8-3,'-16-0 through 40-0

No special conditions are required.

B. RMR REPORT

I. Project Description

Technical Services received a request on October 2, 2013, to perform an Ambient Air Quality Analysis and a Risk Management Review for the addition of new tankage, Wemcos, FWKO, heater treaters, and an 850 MMBtu/day flare combusting produced gas at an existing crude oil production facility and authorize new water processing facility in Section 35.

11. Analysis

Toxic emissions for the proposed units were calculated using San Diego County's emission factors for digester gas flares. In accordance with the District's Risk Management Policy for Permitting New and Modified Sources (APR 1905, March 2, 2001), risks from the proposed units' toxic emissions were prioritized using the procedure in the 1990 CAPCOA Facility Prioritization Guidelines and incorporated in the District's HEARTs database. The prioritization score for this project was less than 1.0 (see RMR Summary Table). Therefore, no further analysis was necessary.

The following parameters were used for the review:

Analysis Parameters Units S-6848-8-3,'-16-0 through 39-0 and Unit 40-0				
Units 16-0 : 39-0 VOCs (ib/day)	1.5	Units 16-0 : 39-0 VOCs (lb/yr)	543	
Unit 40-0 Fuel Rate (MMscf/yr)	25.5	Max Hours per Year	720	
Closest Receptor (m)	305			

Technical Services performed modeling for criteria pollutants CO, NOx, SOx and PM10 from the Flare; as well as a RMR. The flare emission rates used for criteria pollutant modeling were 13.104 lb/hr CO, 2.408 lb/hr NOx, 1.797 lb/hr SOx, and 0.269 lb/hr PM₁₀. The District's Flare Modeling Parameters spreadsheet was used to calculate the flare parameters used during the AAQA analysis. The engineer supplied the maximum fuel rate for the flare used during the analysis.

The results from the Criteria Pollutant Modeling are as follows:

Flare	1 Hour	3 Hours	8 Hours.	24 Hours	Annual
CO	Pass	X	Pass	X	X
NOx	Pass'	X	X	<u> </u>	Pass'
SOx	_ Pass	Pass	X	Pass	Pass
PM10				Pass ²	Pass ²
PM2.5	X	X	X	Pass ²	Pass ²

Criteria Pollutant Modeling Results*

*Results were taken from the attached PSD spreadsheet.

¹The project was compared to the 1-hour NO2 National Amblent Air Quality Standard that became effective on April 12, 2010 using the District's approved procedures. ²The criteria pollutants are below EPA's level of significance as found in 40 CFR Part 51.165 (b)(2).

III. Conclusion

The prioritization score is less than 1.0. In accordance with the District's Risk Management Policy, the project is approved without Toxic Best Available Control Technology (T-BACT).

The emissions from the proposed equipment will not cause or contribute significantly to a violation of the State and National AAQS.

These conclusions are based on the data provided by the applicant and the project engineer. Therefore, this analysis is valid only as long as the proposed data and parameters do not change.

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Attachments:

- A. RMR request from the project engineerB. Additional information from the applicant/project engineer
- C. Toxic emissions summary D. Prioritization score
- E. AAQA Results

ATTACHMENT X Statewide Compliance Statement

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September 26, 2013

Mr. Leonard Scandura Permit Services Manager San Joaquin Valley Air Pollution Control District-Southern Region 34946 Flyover Court Bakersfield, CA 93308-9725

Subject: Occidental of Elk Hills, Inc. Certification of Compliance

Dear Mr. Scandura:

Rule 2201 section 4.15.2 requires that an owner or operator proposing a federal major modification certify that all major stationary sources owned or operated by such person (or by any entity controlling, controlled by, or under common control with such person) in California are either in compliance or an a schedule for compliance with all applicable emission limitations and standards. This letter certifies compliance for Occidental of Elk Hills, Inc (OEHI) and its affiliates.

OEHI is an ownership partner with Chevron USA for the Elk Hills unit wherein OEHI is the sole operator. OEHI has Notices of Violation outstanding issued by your office. However, all issues associated with the Notices of Violation have been addressed.

Affiliated companies of OEHI own interests in or own and/or operate other major stationary sources in California. These major stationary sources are currently in compliance with applicable compliance schedules (if any) and substantially comply with all applicable laws and regulations.

This certification is made on information and belief and is based upon a review of OEHI and affiliated company major stationary sources in the State of California by employees of OEHI and its affiliates who have responsibility for compliance with environmental requirements. This certification is as of the date of its execution.

Sincerely, aut a k

Robert Bames President and General Manager, OEHI

cc: Amanda Grainger, OEHI Mike Glavin, OEHI

An Occidental Oil and Gas company

ATTACHMENT XI Title V Compliance Certification Form

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San Joaquin Valley Unified Air Pollution Control District

TITLE V MODIFICATION - COMPLIANCE CERTIFICATION FORM

I. TYPE OF PERMIT ACTION (Check appropriate box)

[X] SIGNIFICANT PERMIT MODIFICATION[] MINOR PERMIT MODIFICATION

[] ADMINISTRATIVE AMENDMENT

COMPANY NAME: OCCIDENTAL OF ELK HILLS, INC.	FACILITY ID: S - 6848			
1. Type of Organization: [X] Corporation [] Sole Ownership [] Government [] Partnership [] Utility				
2. Owner's Name: OCCIDENTAL OF ELK HILLS, INC.				
3. Agent to the Owner: OCCIDENTAL OF ELK HILLS, INC.				

II. COMPLIANCE CERTIFICATION (Read each statement carefully and initial all circles for confirmation):

Based on information and belief formed after reasonable inquiry, the equipment identified in this application will continue to comply with the applicable federal requirement(s).

Based on information and belief formed after reasonable inquiry, the equipment identified in this application will comply with applicable federal requirement(s) that will become effective during the permit term, on a timely basis.



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Corrected information will be provided to the District when I become aware that incorrect or incomplete information has been submitted.



Based on information and belief formed after reasonable inquiry, information and statements in the submitted application package, including all accompanying reports, and required certifications are true accurate and complete.

I declare, under penalty of perjury order the laws of the state of California, that the forgoing is correct and true:

mando

9/26/2013

Date

Signature of Responsible Official

Armando Gonzalez

Name of Responsible Official (please print)

Health, Environmental and Safety Manager

Title of Responsible Official (please print)

Mailing Address: Central Regional Office * 1990 E. Gellysburg Avenue * Fresno, California 93726-0244 * (559) 230-5900 * FAX (559) 230-6061 TVFORM-009 Key by 300

OEHI S-6848, 1133800

ATTACHMENT XII Draft ATC

San Joaquin Valley Air Pollution Control District

AUTHORITY TO CONSTRUCT

PERMIT NO: S-6848-15-2

LEGAL OWNER OR OPERATOR: OCCIDENTAL OF ELK HILLS INC MAILING ADDRESS: ATTN: DENNIS CHAMPION

OCCIDENTAL OF ELK HILLS INC ATTN: DENNIS CHAMPION PO BOX 1001 TUPMAN, CA 93276 HEAVY OIL WESTERN

LOCATION:

SECTION: 35 TOWNSHIP: 30S RANGE: 22E

EQUIPMENT DESCRIPTION:

MODIFICATION OF THERMALLY ENHANCED OIL RECOVERY OPERATION WITH 200 STEAM ENHANCED WELLS OPERATING WITH EITHER A WELLHEAD VAPOR CONTROL SYSTEM OR CLOSED CASING VENTS WITH PRODUCED FLUIDS ROUTED TO FRONT LINE TANKS ON A VAPOR CONTROL SYSTEM: LIST S-6848-16 THROUGH '-31 AS CONNECTED TO VAPOR CONTROL SYSTEM, ADD ONE NEW SULFUR REMOVAL SYSTEM CONNECTED TO VAPOR CONTROL SYSTEM

CONDITIONS

- {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
- {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
- 3. Maximum VOC content of the gas in the casing collection system shall not exceed 10% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 4. Operator shall conduct and keep records of quarterly sampling of gas handled by the casing collection system to qualify for exemption from fugitive component counts for components handling fluids with less than 10% VOC by weight. If fluids sampled are less than 10% VOC by weight for eight consecutive quarterly samplings, sampling frequency shall only be required annually. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU <u>MUST</u> NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be mada after an inspaction to verify that the equipment has been constructed in accordance with the approvad plans, apecifications and conditions of this Authority to Construct, and to datermine if the aquipment can be operated in compliance with all Rules and Regulations of the San Joaquin Vallay Unified Air Pollution Control District. Unless construction has commenced purauant to Rula 2050, this Authority to Construct shall expire and application shall be cancelled two yaars from the date of Issuanca. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencias which may pertain to the above equipment.

Seved Sadredin, Executive Dilectory APCO

DAVID WARNER-Director of Permit Services B4446-15-2: Feb 28 2014 8 23AN - EDGEHLR : Joint Impaction NOT Regular

Southern Regional Office • 34946 Flyover Court • Bakersfield, CA 93308 • (661) 392-5500 • Fax (661) 392-5585

ISSU

- Collected vapors shall be disposed of in steam generators listed on S-6848-12 or S-1327-32, the flare listed on S-6848-32, permit exempt equipment, or routed to a sales gas line. [District Rule 2201] Federally Enforceable Through Title V Permit
- 6. During the time any steam-enhanced crude oil production well is undergoing service or repair while the well is not producing, it shall be exempt from the emission control requirements of District Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit
- 7. Gas and liquid leaks are as defined in Section 3.20 of Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit
- 8. The inspection requirements of Section 5.4.1 through Section 5.4.7 of Rule 4401 shall not apply to components exclusively handling gas/vapor or liquid with a VOC content of ten percent by weight (10%) or less, as determined by the test methods in Section 6.3.4 of Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit
- 9. An operator shall not operate a steam-enhanced crude oil production well unless the operator complies with either of the following requirements: The steam-enhanced crude oil production well vent is closed and the front line production equipment downstream of the wells that carry produced fluids (crude oil or mixture of crude oil and water) is connected to a VOC collection and control system as defined in Section 3.0 of Rule 4401, the well vent may be temporarily opened during periods of attended service or repair of the well provided such activity is done as expeditiously as possible with minimal spillage of material and VOC emissions to the atmosphere, or the steam-enhanced crude oil production well vent is connected to a VOC collection and control system as defined in Section 3.0 of Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit
- 10. An operator shall be in violation of this rule if any District inspection demonstrates or if any operator inspection conducted pursuant to Section 5.4 of Rule 4401 demonstrates the existence of an open-ended line or a valve located at the end of the line that is not sealed with a blind flange, plug, cap, or a second closed valve that is not closed at all times, except during attended operations as defined by Section 5.2.2.1 of Rule 4401 requiring process fluid flow through the open-ended lines, a component with a major liquid leak, or a component with a gas leak greater than 50,000 ppmv. [District Rule 4401] Federally Enforceable Through Title V Permit
- 11. An operator shall be in violation of this rule if any District inspection demonstrates or if any operator inspection conducted pursuant to Section 5.4 of Rule 4401 demonstrates the existence of any combination of components with minor liquid leaks, minor gas leaks, or a gas leaks greater than 10,000 ppmv up to 50,000 ppmv that totals more than number of leaks allowed by Table 2 of Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit
- 12. An operator shall not use any component with a leak as defined in Section 3.0 of Rule 4401, or that is found to be in violation of the provisions of Section 5.2.2 of Rule 4401. However, components that were found leaking may be used provided such leaking components have been identified with a tag for repair, are repaired, or awaiting re-inspection after being repaired within the applicable time frame specified in Section 5.5 of Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit
- 13. Each hatch shall be closed at all times except during sampling or adding of process material through the hatch, or during attended repair, replacement, or maintenance operations, provided such activities are done as expeditiously as possible with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4401] Federally Enforceable Through Title V Permit
- 14. An operator shall comply with the requirements of Section 6.7 of Rule 4401 if there is any change in the description of major components or critical components. [District Rule 4401] Federally Enforceable Through Title V Permit
- 15. Except for pipes and unsafe-to-monitor components, an operator shall inspect all other components pursuant to the requirements of Section 6.3.3 of Rule 4401 at least once every year. [District Rule 4401] Federally Enforceable Through Title V Permit
- 16. An operator shall visually inspect all pipes at least once every year. Any visual inspection of pipes that indicates a leak that cannot be immediately repaired to meet the leak standards of this rule shall be inspected within 24 hours after detecting the leak. If a leak is found, the leak shall be repaired as soon as practicable but not later than the time frame specified in Table 3 of Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit

CONDITIONS/CONTINUE ON NEXT PAGE

- 17. In addition to the inspections required by Section 5.4.1 of Rule 4401, an operator shall inspect for leaks all accessible operating pumps, compressors, and PRDs in service as follows: An operator shall audio-visually (by hearing and by sight) inspect for leaks all accessible operating pumps, compressors, and PRDs in service at least once each calendar week. Any audio-visual inspection of an accessible operating pump, compressor, and PRD performed by an operator that indicates a leak that cannot be immediately repaired to meet the leak standards of this rule shall be inspected not later than 24 hours after conducting the audio-visual inspection. If a leak is found, the leak shall be repaired as soon as practicable but not later than the time frame specified in Table 3 of Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit
- 18. In addition to the inspections required by Sections 5.4.1, 5.4.2 and 5.4.3 of Rule 4401, operator shall perform the following: initially inspect a PRD that releases to the atmosphere as soon as practicable but not later than 24 hours after the discovery of the release, re-inspect the PRD not earlier than 24 hours after the initial inspection but not later than 15 calendar days after the initial inspection, inspect all new, replaced, or repaired fittings, flanges, and threaded connections within 72 hours of placing the component in service. Except for PRDs subject to the requirements of Section 5.4.4.1 of Rule 4401, an operator shall inspect a component that has been repaired or replaced not later than 15 calendar days after the component was repaired or replaced. [District Rule 4401] Federally Enforceable Through Title V Permit
- 19. An operator shall inspect all unsafe-to-monitor components during each turnaround. [District Rule 4401] Federally Enforceable Through Title V Permit
- 20. District inspection in no way fulfills any of the mandatory inspection requirements that are placed upon operators and cannot be used or counted as an inspection required of an operator. [District Rule 4401] Federally Enforceable Through Title V Permit
- 21. An operator shall affix a readily visible weatherproof tag to a leaking component upon detection of the leak and shall include the following information on the tag: date and time of leak detection, date and time of leak measurement, for a gaseous leak, the leak concentration in ppmv, for a liquid leak, whether it is a major liquid leak or a minor liquid leak, whether the component is an essential component, an unsafe-to monitor component, or a critical component. [District Rule 4401] Federally Enforceable Through Title V Permit
- 22. An operator shall keep the tag affixed to the component until an operator has met all of the following conditions: repaired or replaced the leaking component, re-inspected the component using the test method in Section 6.3.3, and the component is found to be in compliance with the requirements of this rule. [District Rule 4401] Federally Enforceable Through Title V Permit
- 23. An operator shall minimize a component leak in order to stop or reduce leakage to the atmosphere immediately to the extent possible, but not later than one (1) hour after detection of the leak. [District Rule 4401] Federally Enforceable Through Title V Permit
- 24. Except for leaking critical components or leaking essential components subject to the requirements of Section 5.5.7 of Rule 4401, if an operator has minimized a leak but the leak still exceeds the applicable leak limits as defined in Section 3.0 of Rule 4401, an operator shall comply with at least one of the following requirements as soon as practicable but not later than the time period specified in Table 3 of Rule 4401: Repair or replace the leaking component; or vent the leaking component to a VOC collection and control system as defined in Section 3.0 of Rule 4401, or remove the leaking component from operation. [District Rule 4401] Federally Enforceable Through Title V Permit
- 25. The repair period in calendar days shall not exceed 14 days for minor gas leaks, 5 days for major gas leaks less than or equal to 50,000 ppmv, 2 days for gas leak greater than 50,000 ppmv, 3 days for minor liquid leaks, 2 days for major liquid leaks. [District Rule 4401] Federally Enforceable Through Title V Permit
- 26. The leak rate measured after leak minimization has been performed shall be the leak rate used to determine the applicable repair period specified in Table 3 of Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit
- 27. The time of the initial leak detection shall be the start of the repair period specified in Table 3 of Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit

CONDITION INUE ON NEXT PAGE

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- 28. If the leaking component is an essential component or a critical component that cannot be immediately shut down for repairs, and if the leak has been minimized but the leak still exceeds the applicable leak standard of this rule, the operator shall repair or replace the essential component or critical component to eliminate the leak during the next process unit turnaround, but in no case later than one year from the date of the original leak detection, whichever comes earlier. [District Rule 4401] Federally Enforceable Through Title V Permit
- 29. The operator of any steam-enhanced crude oil production well shall maintain records of the date and well identification where steam injection or well stimulation occurs. [District Rule 4401] Federally Enforceable Through Title V Permit
- 30. An operator of any steam-enhanced crude oil production well shall keep source test records which demonstrate compliance with the control efficiency requirements of the VOC collection and control system as defined in Section 3.0 of Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit
- 31. Operator shall keep a list of all gauge tanks, as defined in Section 3.0 of Rule 4401. The list shall contain the size, identification number, the location of each gauge tank and specify whether the gauge tank is upstream of all front line production equipment. [District Rule 4401] Federally Enforceable Through Title V Permit
- 32. The results of gauge tank TVP testing conducted pursuant to Section 6.2.3 shall be submitted to the APCO within 60 days after the completion of the testing. [District Rule 4401] Federally Enforceable Through Title V Permit
- 33. An operator that discovers that a PRD has released shall record the date that the release was discovered, and the identity and location of the PRD that released. An operator shall submit such information recorded during the calendar year to the APCO no later than 60 days after the end of the calendar year. [District Rule 4401] Federally Enforceable Through Title V Permit
- 34. An operator shall source test annually all vapor collection and control systems used to control emissions from steamenhanced crude oil production well vents to determine the control efficiency of the device(s) used for destruction or removal of VOC. Compliance testing shall be performed annually by source testers certified by ARB. Testing shall be performed during June, July, August, or September of each year if the system's control efficiency is dependent upon ambient air temperature. A process system as defined in Section 3.30 of Rule 4401 is not subject to compliance source testing requirements. [District Rule 4401] Federally Enforceable Through Title V Permit
- 35. If approved by by the APCO, an operator need not comply with the annual testing requirement of Section 6.2.1 if all uncondensed VOC emissions collected by a vapor collection are controlled by an internal combustion engine subject to Rule 4702, a combustion device subject to Rule 4320, 4307 or 4308, or a flare subject to Rule 4311. [District Rule 4401] Federally Enforceable Through Title V Permit
- 36. An operator shall comply with the following requirements for each gauge tank, as defined in Section 3.0 of Rule 4401: Conduct periodic TVP testing of each gauge tank at least once every 24 months during summer (July - September), and whenever there is a change in the source or type of produced fluid in the gauge tank. The TVP testing shall be conducted at the actual storage temperature of the produced fluid in the gauge tank using the applicable TVP test method specified in Section 6.4 of Rule 4623 (Storage of Organic Liquids). The operator shall submit the TVP testing results to the APCO as specified in Section 6.1.9 of Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit
- 37. The control efficiency of any VOC control device, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case EPA Method 25a may be used. EPA Method 18 may be used in lieu of EPA Method 25 or EPA Method 25a provided the identity and approximate concentrations of the analytes/compounds in the sample gas stream are known before analysis with the gas chromatograph and the gas chromatograph is calibrated for each of those known analyte/compound to ensure that the VOC concentrations are neither under- or over-reported. [District Rule 4401] Federally Enforceable Through Title V Permit
- 38. VOC content shall be analyzed by using the latest revision of ASTM Method E168, E169, or E260 as applicable. Analysis of halogenated exempt compounds shall be performed by using ARB Method 432. [District Rule 4401] Federally Enforceable Through Title V Permit



- 39. Leak inspection, other than audio-visual, and measurements of gaseous leak concentrations shall be conducted according to EPA Method 21 using an appropriate portable hydrocarbon detection instrument calibrated with methane. The instrument shall be calibrated in accordance with the procedures specified in EPA Method 21 or the manufacturer's instruction, as appropriate, not more than 30 days prior to its use. The operator shall record the calibration date of the instrument. Where safety is a concern, such as measuring leaks from compressor scals or pump seals when the shaft is rotating, a person shall measure leaks by placing the instrument probe inlet at a distance of one (1) centimeter or less from the surface of the component interface. [District Rule 4401] Federally Enforceable Through Title V Permit
- 40. The VOC content by weight percent (wt.%) shall be determined using American Society of Testing and Materials (ASTM) D1945 for gases and South Coast Air Quality Management District (SCAQMD) Method 304-91 or the latest revision of ASTM Method E168, E169 or E260 for liquids. [District Rule 4401] Federally Enforceable Through Title V Permit
- 41. Operator shall maintain an inspection log in which an operator records, at a minimum, all of the following information for each inspection performed: The total number of components inspected, total number and percentage of leaking components found by component type, location, type, and name or description of each leaking component and description of any unit where the leaking component is found, date of leak detection and the method of leak detection. For gaseous leaks, the leak concentration in ppmv, and for liquid leaks record whether the leak is a major liquid leak or a minor liquid leak. the date of repair, replacement, or removal from operation of leaking components, identify and location of essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes earlier, methods used to minimize the leak concentration in ppmv after leak detection, whichever comes earlier, the date of re-inspection and the leak concentration in ppmv after the component is repaired or is replaced, the inspector's name, business mailing address, and business telephone number, date and signature of the facility operator responsible for the inspection and repair program certifying the accuracy of the information recorded in the log. [District Rule 4401] Federally Enforceable Through Title V Permit
- 42. Operator of any steam-enhanced crude oil production well shall keep an inspection log maintained pursuant to Section 6.4 of Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit
- 43. Records of each calibration of the portable hydrocarbon detection instrument utilized for inspecting components, including a copy of current calibration gas certification from the vendor of said calibration gas cylinder, the date of calibration, concentration of calibration gas, instrument reading of calibration gas before adjustment, instrument reading of calibration gas after adjustment, calibration gas expiration date, and calibration gas cylinder pressure at the time of calibration shall be maintained. [District Rule 4401] Federally Enforceable Through Title V Permit
- 44. Operator shall keep a copy of the APCO-approved Operator Management Plan at the facility. [District Rule 4401] Federally Enforceable Through Title V Permit
- 45. By January 30 of each year, an operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to an existing Operator Management Plan. [District Rule 4401] Federally Enforceable Through Title V Permit
- 46. An operator shall maintain copies at the facility of the training records of the training program operated pursuant to Section 6.5 of Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit
- 47. Permittee shall maintain a current roster of all wells connected to this system. [District Rules 2201 and 4401] Federally Enforceable Through Title V Permit
- 48. Records of the VOC content of the gas shall be maintained and made readily available for District inspection upon request for a period of 5 years. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
- 49. All records of required monitoring data and support information shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rules 2520, 9.3.2 and 4401] Federally Enforceable Through Title V Permit
- 50. ATC shall be implemented concurrently with or subsequent to ATC S-6848-15-1. [District Rule 2201] Federally Enforceable Through Title V Permit

San Joaquin Valley Air Pollution Control District

AUTHORITY TO CONSTRUCT

PERMIT NO: S-6848-16-0

LEGAL OWNER OR OPERATOR: OCCIDENTAL OF ELK HILLS INC MAILING ADDRESS: ATTN: DENNIS CHAMPION PO BOX 1001

TUPMAN, CA 93276

HEAVY OIL WESTERN

LOCATION:

SECTION: SE 35 TOWNSHIP: 30S RANGE: 22E

EQUIPMENT DESCRIPTION:

746 BBL (31,332 GALLONS) FWKO VENTED TO VAPOR RECOVERY SYSTEM LISTED ON TEOR PERMIT S-6848-15

CONDITIONS

- {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
- {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
- Maximum VOC content of tank/vessel vapors shall not exceed 10% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 4. Operator shall conduct and keep records of quarterly sampling of tank/vessel vapors to qualify for exemption from fugitive component counts for components handling fluids with less than 10% VOC by weight. If fluids sampled are less than 10% VOC by weight for eight consecutive quarterly samplings, sampling frequency shall only be required annually. [District Rule 2201] Federally Enforceable Through Title V Permit
- 5. A leak-free condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. [District Rule 2520] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU <u>MUST</u> NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditiona of this Authority to Construct, end to determine if the equipment cen be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all iaws, ordinances and regulations of all-other governmental agencies which may pertain to the above equipment.

Seved Sadredin, Executive Dilectory APCO

DAVID WARNER Director of Permit Services B-0444-16-0: Feb 28 2014 # 23AM - EDGEHLR : Joint Imspection NOT Regulard

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- 6. Any tank/vessel gauging or sampling device shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 2201] Federally Enforceable Through Title V Permit
- 7. Any component found to be leaking on two consecutive annual inspections is in violation of the District Rule 4623, even if it is under the voluntary inspection and maintenance program. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 8. Operator shall visually inspect tank/vessel shell, hatches, seals, seams, cable seals, valves, flanges, connectors, and any other piping components directly affixed to the tank/vessel and within five feet of the tank/vessel at least once per year for liquid leaks, and with a portable hydrocarbon detection instrument conducted in accordance with EPA Method 21 for gas leaks. Operator shall also visually or ultrasonically inspect as appropriate, the external shells and roofs of uninsulated tanks for structural integrity annually. [District Rule 2201 and 4623] Federally Enforceable Through Title V Permit
- 9. Upon detection of a liquid leak, defined as a leak rate of greater than or equal to 30 drops per minute, operator shall repair the leak within 8 hours. For leaks with a liquid leak rate of between 3 and 30 drops per minute, the leaking component shall be repaired within 24 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 10. Upon detection of a gas leak, defined as a VOC concentration of greater than 10,000 ppmv measured in accordance with EPA Method 21, operator shall take one of the following actions: 1) eliminate the leak within 8 hours after detection; or 2) if the leak cannot be eliminated, then minimize the leak to the lowest possible level within 8 hours after detection by using best maintenance practices, and eliminate the leak within 48 hours after minimization. In no event shall the total time to minimize and eliminate a leak exceed 56 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 11. Components found to be leaking either liquids or gases shall be immediately affixed with a tag showing the component to be leaking. Operator shall maintain records of the liquid or gas leak detection readings, date/time the leak was discovered, and date/time the component was repaired to a leak-free condition. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 12. Leaking components that have been discovered by the operator that have been immediately tagged and repaired within the timeframes specified in District Rule 4623, Table 3 shall not constitute a violation of this rule. Leaking components as defined by District Rule 4623 discovered by District staff that were not previously identified and/or tagged by the operator, and/or any leaks that were not repaired within the timeframes specified in District Rule 4623, Table 3 shall constitute a violation of this rule. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 13. If a component type for a given tank/vessel is found to leak during an annual inspection, operator shall conduct quarterly inspections of that component type on the tank/vessel or tank/vessel system for four consecutive quarters. If no components are found to leak after four consecutive quarters, the operator may revert to annual inspections. [District Rules 2201 and 4623]
- 14. The permittee shall keep accurate records of the dates of inspection and monitoring and the components inspected and monitored. [District Rule 2201] Federally Enforceable Through Title V Permit
- 15. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date and time of leak detection, and method of detection; 3) Date and time of leak repair, and emission level of recheck after leak is repaired; 4) Method used to minimize the leak to lowest possible level within 8 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 16. Records of the VOC content of the gas shall be maintained and made readily available for District inspection upon request for a period of 5 years. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
- 17. All records of required monitoring data and support information shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit



San Joaquin Valley Air Pollution Control District

AUTHORITY TO CONSTRUCT

PERMIT NO: S-6848-17-0

LEGAL OWNER OR OPERATOR: OCCIDENTAL OF ELK HILLS INC MAILING ADDRESS:

ATTN: DENNIS CHAMPION PO BOX 1001 **TUPMAN, CA 93276**

LOCATION:

SECTION: SE 35 TOWNSHIP: 30S RANGE: 22E

HEAVY OIL WESTERN

EQUIPMENT DESCRIPTION:

746 BBL (31,332 GALLONS) FWKO VENTED TO VAPOR RECOVERY SYSTEM LISTED ON TEOR PERMIT S-6848-15

CONDITIONS

- 1. [1830] This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
- 2. [1831] Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
- 3. Maximum VOC content of tank/vessel vapors shall not exceed 10% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 4. Operator shall conduct and keep records of quarterly sampling of tank/vessel vapors to qualify for exemption from fugitive component counts for components handling fluids with less than 10% VOC by weight. If fluids sampled are less than 10% VOC by weight for eight consecutive quarterly samplings, sampling frequency shall only be required annually. [District Rule 2201] Federally Enforceable Through Title V Permit
- 5. A leak-free condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. [District Rule 2520] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This IS NOT & PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an Inspection to verify that the equipment has been constructed in eccordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Ruiss and Regulations of the San Joaquin Valiey Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct ansli expire and application shall be cancelled two years from the date of issuance. The applicant le responsible for complying with all laws, ordinances and regulations of all othar governmentel agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Dilectory APCO

DAVID WARNER, Director of Permit Services

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- 6. Any tank/vessel gauging or sampling device shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 2201] Federally Enforceable Through Title V Permit
- 7. Any component found to be leaking on two consecutive annual inspections is in violation of the District Rule 4623, even if it is under the voluntary inspection and maintenance program. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 8. Operator shall visually inspect tank/vessel shell, hatches, seals, seams, cable seals, valves, flanges, connectors, and any other piping components directly affixed to the tank/vessel and within five feet of the tank/vessel at least once per year for liquid leaks, and with a portable hydrocarbon detection instrument conducted in accordance with EPA Method 21 for gas leaks. Operator shall also visually or ultrasonically inspect as appropriate, the external shells and roofs of uninsulated tanks for structural integrity annually. [District Rule 2201 and 4623] Federally Enforceable Through Title V Permit
- 9. Upon detection of a liquid leak, defined as a leak rate of greater than or equal to 30 drops per minute, operator shall repair the leak within 8 hours. For leaks with a liquid leak rate of between 3 and 30 drops per minute, the leaking component shall be repaired within 24 hours after detection. [District Rules 2201 and 4623] Fcderally Enforceable Through Title V Permit
- 10. Upon detection of a gas leak, defined as a VOC concentration of greater than 10,000 ppmv measured in accordance with EPA Method 21, operator shall take one of the following actions: 1) eliminate the leak within 8 hours after detection; or 2) if the leak cannot be eliminated, then minimize the leak to the lowest possible level within 8 hours after detection by using best maintenance practices, and eliminate the leak within 48 hours after minimization. In no event shall the total time to minimize and eliminate a leak exceed 56 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 11. Components found to be leaking either liquids or gases shall be immediately affixed with a tag showing the component to be leaking. Operator shall maintain records of the liquid or gas leak detection readings, date/time the leak was discovered, and date/time the component was repaired to a leak-free condition. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 12. Leaking components that have been discovered by the operator that have been immediately tagged and repaired within the timeframes specified in District Rule 4623, Table 3 shall not constitute a violation of this rule. Leaking components as defined by District Rule 4623 discovered by District staff that were not previously identified and/or tagged by the operator, and/or any leaks that were not repaired within the timeframes specified in District Rule 4623, Table 3 shall constitute a violation of this rule. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 13. If a component type for a given tank/vessel is found to leak during an annual inspection, operator shall conduct quarterly inspections of that component type on the tank/vessel or tank/vessel system for four consecutive quarters. If no components are found to leak after four consecutive quarters, the operator may revert to annual inspections. [District Rules 2201 and 4623]
- 14. The permittee shall keep accurate records of the dates of inspection and monitoring and the components inspected and monitored. [District Rule 2201] Federally Enforceable Through Title V Permit
- 15. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date and time of leak detection, and method of detection; 3) Date and time of leak repair, and emission level of recheck after leak is repaired; 4) Method used to minimize the leak to lowest possible level within 8 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 16. Records of the VOC content of the gas shall be maintained and made readily available for District inspection upon request for a period of 5 years. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
- 17. All records of required monitoring data and support information shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit



San Joaquin Valley Air Pollution Control District

AUTHORITY TO CONSTRUCT

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PERMIT NO: S-6848-18-0

LEGAL OWNER OR OPERATOR: OCCIDENTAL OF ELK HILLS INC MAILING ADDRESS:

ATTN: DENNIS CHAMPION PO BOX 1001 **TUPMAN, CA 93276**

LOCATION:

SECTION: SE 35 TOWNSHIP: 30S RANGE: 22E

HEAVY OIL WESTERN

EQUIPMENT DESCRIPTION:

580 BBL (24,360 GALLONS) HEATER TREATER WITH PERMIT EXEMPT BURNER VENTED TO VAPOR RECOVERY SYSTEM LISTED ON TEOR PERMIT S-6848-15

CONDITIONS

- 1. [1830] This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
- 2. [1831] Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
- Exempt heater treater burner shall be fired only on propane or natural gas/vapor containing no more than five (5) 3. percent by weight hydrocarbons heavier than butane and no more than 1.0 grain of total sulfur per 100 standard cubic feet of gas. [District Rule 2020] Federally Enforceable Through Title V Permit
- Maximum VOC content of tank/vessel vapors shall not exceed 10% by weight. [District Rule 2201] Federally 4. Enforceable Through Title V Permit
- Operator shall conduct and keep records of quarterly sampling of tank/vessel vapors to qualify for exemption from 5. fugitive component counts for components handling fluids with less than 10% VOC by weight. If fluids sampled are less than 10% VOC by weight for eight consecutive quarterly samplings, sampling frequency shall only be required annually. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Difectory APCO Seyed Sadredin, Executive

DAVID WARNER, Director of Permit Services NOT Required

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- 6. A leak-free condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. [District Rule 2520] Federally Enforceable Through Title V Permit
- 7. Any tank/vessel gauging or sampling device shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 2201] Federally Enforceable Through Title V Permit
- 8. Any component found to be leaking on two consecutive annual inspections is in violation of the District Rule 4623, even if it is under the voluntary inspection and maintenance program. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
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- 10. Upon detection of a liquid leak, defined as a leak rate of greater than or equal to 30 drops per minute, operator shall repair the leak within 8 hours. For leaks with a liquid leak rate of between 3 and 30 drops per minute, the leaking component shall be repaired within 24 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 11. Upon detection of a gas leak, defined as a VOC concentration of greater than 10,000 ppmv measured in accordance with EPA Method 21, operator shall take one of the following actions: 1) eliminate the leak within 8 hours after detection; or 2) if the leak cannot be eliminated, then minimize the leak to the lowest possible level within 8 hours after detection by using best maintenance practices, and eliminate the leak within 48 hours after minimization. In no event shall the total time to minimize and eliminate a leak exceed 56 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 12. Components found to be leaking either liquids or gases shall be immediately affixed with a tag showing the component to be leaking. Operator shall maintain records of the liquid or gas leak detection readings, date/time the leak was discovered, and date/time the component was repaired to a leak-free condition. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 13. Leaking components that have been discovered by the operator that have been immediately tagged and repaired within the timeframes specified in District Rule 4623, Table 3 shall not constitute a violation of this rule. Leaking components as defined by District Rule 4623 discovered by District staff that were not previously identified and/or tagged by the operator, and/or any leaks that were not repaired within the timeframes specified in District Rule 4623, Table 3 shall constitute a violation of this rule. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 14. If a component type for a given tank/vessel is found to leak during an annual inspection, operator shall conduct quarterly inspections of that component type on the tank/vessel or tank/vessel system for four consecutive quarters. If no components are found to leak after four consecutive quarters, the operator may revert to annual inspections. [District Rules 2201 and 4623]
- 15. The permittee shall keep accurate records of the dates of inspection and monitoring and the components inspected and monitored. [District Rule 2201] Federally Enforceable Through Title V Permit
- 16. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date and time of leak detection, and method of detection; 3) Date and time of leak repair, and emission level of recheck after leak is repaired; 4) Method used to minimize the leak to lowest possible level within 8 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 17. Permittee shall maintain records of the hydrocarbon and sulfur contents of natural gas/vapor to qualify for permit exemption of heater treater burner. [District Rules 1070 and 2020] Federally Enforceable Through Title V Permit
- 18. Records of the VOC content of the gas shall be maintained and made readily available for District inspection upon request for a period of 5 years. [District Rules 1079 and 2201]Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

19. All records of required monitoring data and support information shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

San Joaquin Valley Air Pollution Control District

AUTHORITY TO CONSTRUCT

ISSU

PERMIT NO: S-6848-19-0

MAILING ADDRESS:

LEGAL OWNER OR OPERATOR: OCCIDENTAL OF ELK HILLS INC ATTN: DENNIS CHAMPION PO BOX 1001 **TUPMAN, CA 93276**

HEAVY OIL WESTERN

LOCATION:

SECTION: SE 35 TOWNSHIP: 30S RANGE: 22E

EQUIPMENT DESCRIPTION:

580 BBL (24,360 GALLONS) HEATER TREATER WITH PERMIT EXEMPT BURNER VENTED TO VAPOR RECOVERY SYSTEM LISTED ON TEOR PERMIT S-6848-15

CONDITIONS

- 1. (1830) This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
- 2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
- Exempt heater treater burner shall be fired only on propane or natural gas/vapor containing no more than five (5) 3. percent by weight hydrocarbons heavier than butane and no more than 1.0 grain of total sulfur per 100 standard cubic feet of gas. [District Rule 2020] Federally Enforceable Through Title V Permit
- 4. Maximum VOC content of tank/vessel vapors shall not exceed 10% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- Operator shall conduct and keep records of quarterly sampling of tank/vessel vapors to qualify for exemption from 5. fugitive component counts for components handling fluids with less than 10% VOC by weight. If fluids sampled are less than 10% VOC by weight for eight consecutive quarterly samplings, sampling frequency shall only be required annually. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with ail Rules and Regulations of the Sen Joaquin Valley Unified Air Poliution Control District. Unless construction has commenced pursuant to Rula 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with ail laws, ordinances and regulations of all-other governmental agancies which may pertain to the above equipment.

Seyed Sadredin, Executive Dilectory APCO

DAVID WARNER, Director of Permit Services

- 6. A leak-free condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. [District Rule 2520] Federally Enforceable Through Title V Permit
- 7. Any tank/vessel gauging or sampling device shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 2201] Federally Enforceable Through Title V Permit
- 8. Any component found to be leaking on two consecutive annual inspections is in violation of the District Rule 4623, even if it is under the voluntary inspection and maintenance program. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 9. Operator shall visually inspect tank/vessel shell, hatches, seals, seams, cable seals, valves, flanges, connectors, and any other piping components directly affixed to the tank/vessel and within five feet of the tank/vessel at least once per year for liquid leaks, and with a portable hydrocarbon detection instrument conducted in accordance with EPA Method 21 for gas leaks. Operator shall also visually or ultrasonically inspect as appropriate, the external shells and roofs of uninsulated tanks for structural integrity annually. [District Rule 2201 and 4623] Federally Enforceable Through Title V Permit
- 10. Upon detection of a liquid leak, defined as a leak rate of greater than or equal to 30 drops per minute, operator shall repair the leak within 8 hours. For leaks with a liquid leak rate of between 3 and 30 drops per minute, the leaking component shall be repaired within 24 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 11. Upon detection of a gas leak, defined as a VOC concentration of greater than 10,000 ppmv measured in accordance with EPA Method 21, operator shall take one of the following actions: 1) eliminate the leak within 8 hours after detection; or 2) if the leak cannot be eliminated, then minimize the leak to the lowest possible level within 8 hours after detection by using best maintenance practices, and eliminate the leak within 48 hours after minimization. In no event shall the total time to minimize and eliminate a leak exceed 56 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 12. Components found to be leaking either liquids or gases shall be immediately affixed with a tag showing the component to be leaking. Operator shall maintain records of the liquid or gas leak detection readings, date/time the leak was discovered, and date/time the component was repaired to a leak-free condition. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 13. Leaking components that have been discovered by the operator that have been immediately tagged and repaired within the timeframes specified in District Rule 4623, Table 3 shall not constitute a violation of this rule. Leaking components as defined by District Rule 4623 discovered by District staff that were not previously identified and/or tagged by the operator, and/or any leaks that were not repaired within the timeframes specified in District Rule 4623, Table 3 shall constitute a violation of this rule. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 14. If a component type for a given tank/vessel is found to leak during an annual inspection, operator shall conduct quarterly inspections of that component type on the tank/vessel or tank/vessel system for four consecutive quarters. If no components are found to leak after four consecutive quarters, the operator may revert to annual inspections. [District Rules 2201 and 4623]
- 15. The permittee shall keep accurate records of the dates of inspection and monitoring and the components inspected and monitored. [District Rule 2201] Federally Enforceable Through Title V Permit
- 16. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date and time of leak detection, and method of detection; 3) Date and time of leak repair, and emission level of recheck after leak is repaired; 4) Method used to minimize the leak to lowest possible level within 8 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 17. Permittee shall maintain records of the hydrocarbon and sulfur contents of natural gas/vapor to qualify for permit exemption of heater treater burner. [District Rules 1070 and 2020] Federally Enforceable Through Title V Permit
- 18. Records of the VOC content of the gas shall be maintained and made readily available for District inspection upon request for a period of 5 years. [District Rules NOP and 22017]Federally Enforceable Through Title V Permit

CONDITIONS/CONTINUE ON NEXT PAGE

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19. All records of required monitoring data and support information shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

AUTHORITY TO CONSTRUCT

ISSU

PERMIT NO: S-6848-20-0

LEGAL OWNER OR OPERATOR: OCCIDENTAL OF ELK HILLS INC MAILING ADDRESS:

ATTN: DENNIS CHAMPION PO BOX 1001 **TUPMAN, CA 93276**

HEAVY OIL WESTERN

LOCATION:

SECTION: SE 35 TOWNSHIP: 30S RANGE: 22E

EQUIPMENT DESCRIPTION:

5000 BBL ORGANIC LIQUID STORAGE TANK VENTED TO VAPOR RECOVERY SYSTEM LISTED ON TEOR PERMIT S-6848-15

CONDITIONS

- 1. (1830) This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
- {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an 2. application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
- 3. This tank shall only store crude oil and/or produced water from heavy oil western stationary source. [District Rule 2201] Federally Enforceable Through Title V Permit
- 4. Maximum VOC content of tank/vessel vapors shall not exceed 10% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- S. Operator shall conduct and keep records of quarterly sampling of tank/vessel vapors to qualify for exemption from fugitive component counts for components handling fluids with less than 10% VOC by weight. If fluids sampled are less than 10% VOC by weight for eight consecutive quarterly samplings, sampling frequency shall only be required annually. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with eli Rules and Regulations of the San Joaquin Vallay Unified Air Pollution Control Oistrict. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all-other governmental agencias which may pertain to the ebove equipmant.

Seyed SadredIn, Executive Difectory APCO

DAVID WARNER, Director of Permit Services

- 6. A leak-free condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. [District Rule 2520] Federally Enforceable Through Title V Permit
- 7. Any tank/vessel gauging or sampling device shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 2201] Federally Enforceable Through Title V Permit
- 8. Any component found to be leaking on two consecutive annual inspections is in violation of the District Rule 4623, even if it is under the voluntary inspection and maintenance program. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 9. Operator shall visually inspect tank/vessel shell, hatches, seals, scams, cable seals, valves, flanges, connectors, and any other piping components directly affixed to the tank/vessel and within five feet of the tank/vessel at least once per year for liquid leaks, and with a portable hydrocarbon detection instrument conducted in accordance with EPA Method 21 for gas leaks. Operator shall also visually or ultrasonically inspect as appropriate, the external shells and roofs of uninsulated tanks for structural integrity annually. [District Rule 2201 and 4623] Federally Enforceable Through Title V Permit
- 10. Upon detection of a liquid leak, defined as a leak rate of greater than or equal to 30 drops per minute, operator shall repair the leak within 8 hours. For leaks with a liquid leak rate of between 3 and 30 drops per minute, the leaking component shall be repaired within 24 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 11. Upon detection of a gas leak, defined as a VOC concentration of greater than 10,000 ppmv measured in accordance with EPA Method 21, opcrator shall take one of the following actions: 1) eliminate the leak within 8 hours after detection; or 2) if the leak cannot be eliminated, then minimize the leak to the lowest possible level within 8 hours after detection by using best maintenance practices, and eliminate the leak within 48 hours after minimization. In no event shall the total time to minimize and eliminate a leak exceed 56 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 12. Components found to be leaking either liquids or gases shall be immediately affixed with a tag showing the component to be leaking. Operator shall maintain records of the liquid or gas leak detection readings, date/time the leak was discovered, and date/time the component was repaired to a leak-free condition. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 13. Leaking components that have been discovered by the operator that have been immediately tagged and repaired within the timeframes specified in District Rule 4623, Table 3 shall not constitute a violation of this rule. Leaking components as defined by District Rule 4623 discovered by District staff that were not previously identified and/or tagged by the operator, and/or any leaks that were not repaired within the timeframes specified in District Rule 4623, Table 3 shall constitute a violation of this rule. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 14. If a component type for a given tank/vessel is found to leak during an annual inspection, operator shall conduct quarterly inspections of that component type on the tank/vessel or tank/vessel system for four consecutive quarters. If no components are found to leak after four consecutive quarters, the operator may revert to annual inspections. [District Rules 2201 and 4623]
- 15. The permittee shall keep accurate records of the dates of inspection and monitoring and the components inspected and monitored. [District Rule 2201] Federally Enforceable Through Title V Permit
- 16. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date and time of leak detection, and method of detection; 3) Date and time of leak repair, and emission level of recheck after leak is repaired; 4) Method used to minimize the leak to lowest possible level within 8 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 17. Records of the VOC content of the gas shall be maintained and made readily available for District inspection upon request for a period of 5 years. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
- 18. All records of required monitoring data and support information shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

AUTHORITY TO CONSTRUCT

ISSU/

PERMIT NO: S-6848-21-0

LEGAL OWNER OR OPERATOR: OCCIDENTAL OF ELK HILLS INC MAILING ADDRESS:

ATTN: DENNIS CHAMPION PO BOX 1001 **TUPMAN, CA 93276**

HEAVY OIL WESTERN

LOCATION:

SECTION: SE 35 TOWNSHIP: 30S RANGE: 22E

EQUIPMENT DESCRIPTION:

5000 BBL ORGANIC LIQUID STORAGE TANK VENTED TO VAPOR RECOVERY SYSTEM LISTED ON TEOR PERMIT S-6848-15

CONDITIONS

- 1. [1830] This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
- 2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
- 3. This tank shall only store crude oil and/or produced water from heavy oil western stationary source. [District Rule 2201] Federally Enforceable Through Title V Permit
- 4. Maximum VOC content of tank/vessel vapors shall not exceed 10% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 5. Operator shall conduct and keep records of quarterly sampling of tank/vessel vapors to qualify for exemption from fugitive component counts for components handling fluids with less than 10% VOC by weight. If fluids sampled are less than 10% VOC by weight for eight consecutive quarterly samplings, sampling frequency shall only be required annually. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inapection to varify that the aquipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valiey Unlified Air Pollution Control District. Unlass construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of Issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all-other governmental agencies which may pertain to the above equipmant.

Seyed Sadredin, Executive Directory APCO

DAVID WARNER, Director of Permit Services

Conditions for S-6848-21-0 (continued)

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- 6. A leak-free condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. [District Rule 2520] Federally Enforceable Through Title V Permit
- 7. Any tank/vessel gauging or sampling device shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 2201] Federally Enforceable Through Title V Permit
- 8. Any component found to be leaking on two consecutive annual inspections is in violation of the District Rule 4623, even if it is under the voluntary inspection and maintenance program. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 9. Operator shall visually inspect tank/vessel shell, hatches, seals, seams, cable seals, valves, flanges, connectors, and any other piping components directly affixed to the tank/vessel and within five feet of the tank/vessel at least once per year for liquid leaks, and with a portable hydrocarbon detection instrument conducted in accordance with EPA Method 21 for gas leaks. Operator shall also visually or ultrasonically inspect as appropriate, the external shells and roofs of uninsulated tanks for structural integrity annually. [District Rule 2201 and 4623] Federally Enforceable Through Title V Permit
- 10. Upon detection of a liquid leak, defined as a leak rate of greater than or equal to 30 drops per minute, operator shall repair the leak within 8 hours. For leaks with a liquid leak rate of between 3 and 30 drops per minute, the leaking component shall be repaired within 24 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 11. Upon detection of a gas leak, defined as a VOC concentration of greater than 10,000 ppmv measured in accordance with EPA Method 21, operator shall take one of the following actions: 1) eliminate the leak within 8 hours after detection; or 2) if the leak cannot be eliminated, then minimize the leak to the lowest possible level within 8 hours after detection by using best maintenance practices, and eliminate the leak within 48 hours after minimization. In no event shall the total time to minimize and eliminate a leak exceed 56 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 12. Components found to be leaking either liquids or gases shall be immediately affixed with a tag showing the component to be leaking. Operator shall maintain records of the liquid or gas leak detection readings, date/time the leak was discovered, and date/time the component was repaired to a leak-free condition. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 13. Leaking components that have been discovered by the operator that have been immediately tagged and repaired within the timeframes specified in District Rule 4623, Table 3 shall not constitute a violation of this rule. Leaking components as defined by District Rule 4623 discovered by District staff that were not previously identified and/or tagged by the operator, and/or any leaks that were not repaired within the timeframes specified in District Rule 4623, Table 3 shall constitute a violation of this rule. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 14. If a component type for a given tank/vessel is found to leak during an annual inspection, operator shall conduct quarterly inspections of that component type on the tank/vessel or tank/vessel system for four consecutive quarters. If no components are found to leak after four consecutive quarters, the operator may revert to annual inspections. [District Rules 2201 and 4623]
- 15. The permittee shall keep accurate records of the dates of Inspection and monitoring and the components inspected and monitored. [District Rule 2201] Federally Enforceable Through Title V Permit
- 16. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date and time of leak detection, and method of detection; 3) Date and time of leak repair, and emission level of recheck after leak is repaired; 4) Method used to minimize the leak to lowest possible level within 8 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 17. Records of the VOC content of the gas shall be maintained and made readily available for District inspection upon request for a period of 5 years. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
- 18. All records of required monitoring data and support information shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

AUTHORITY TO CONSTRUCT

ISSU

PERMIT NO: S-6848-22-0

LEGAL OWNER OR OPERATOR: OCCIDENTAL OF ELK HILLS INC MAILING ADDRESS:

ATTN: DENNIS CHAMPION PO BOX 1001 **TUPMAN, CA 93276**

LOCATION:

HEAVY OIL WESTERN SECTION: SE 35 TOWNSHIP: 30S RANGE: 22E

EQUIPMENT DESCRIPTION:

5000 BBL ORGANIC LIQUID STORAGE TANK VENTED TO VAPOR RECOVERY SYSTEM LISTED ON S-6848-15

CONDITIONS

- 1. (1830) This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
- 2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
- 3. This tank shall only store crude oil and/or produced water from heavy oil western stationary source. [District Rule 2201] Federally Enforceable Through Title V Permit
- 4. Maximum VOC content of tank/vessel vapors shall not exceed 10% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- Operator shall conduct and keep records of quarterly sampling of tank/vessel vapors to qualify for exemption from 5. fugitive component counts for components handling fluids with less than 10% VOC by weight. If fluids sampled are less than 10% VOC by weight for eight consecutive quarterly samplings, sampling frequency shall only be required annually. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This IS NOT & PERMIT TO OPERATE. Approval or danial of a PERMIT TO OPERATE will be made aftar an inspaction to verify that the equipment has been constructed in accordance with that approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Ruise and Regulations of the San Joaquin Vailey Unified Air Pollution Control District. Unless construction has commenced pursuant to Ruie 2050, this Authority to Construct shell expire and epplication shall be cancellad two yeers from the date of issuance. The applicant is responsible for complying with ali laws, ordinances and regulations of all other governmental agencies which may pertain to the ebova aquipment.

Seyed Sadredin, Executive Dilectory APCO

DAVID WARNER, Director of Permit Services Joint Insee NOT R

Conditions for S-6848-22-0 (continued)

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- 6. A leak-free condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. [District Rule 2520] Federally Enforceable Through Title V Permit
- 7. Any tank/vessel gauging or sampling device shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 2201] Federally Enforceable Through Title V Permit
- 8. Any component found to be leaking on two consecutive annual inspections is in violation of the District Rule 4623, even if it is under the voluntary inspection and maintenance program. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 9. Operator shall visually inspect tank/vessel shell, hatches, seals, seams, cable seals, valves, flanges, connectors, and any other piping components directly affixed to the tank/vessel and within five feet of the tank/vessel at least once per year for liquid leaks, and with a portable hydrocarbon detection instrument conducted in accordance with EPA Method 21 for gas leaks. Operator shall also visually or ultrasonically inspect as appropriate, the external shells and roofs of uninsulated tanks for structural integrity annually. [District Rule 2201 and 4623] Federally Enforceable Through Title V Permit
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- 11. Upon detection of a gas leak, defined as a VOC concentration of greater than 10,000 ppmv measured in accordance with EPA Method 21, operator shall take one of the following actions: 1) eliminate the leak within 8 hours after detection; or 2) if the leak cannot be eliminated, then minimize the leak to the lowest possible level within 8 hours after detection by using best maintenance practices, and eliminate the leak within 48 hours after minimization. In no event shall the total time to minimize and eliminate a leak exceed 56 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 12. Components found to be leaking either liquids or gases shall be immediately affixed with a tag showing the component to be leaking. Operator shall maintain records of the liquid or gas leak detection readings, date/time the leak was discovered, and date/time the component was repaired to a leak-free condition. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 13. Leaking components that have been discovered by the operator that have been immediately tagged and repaired within the timeframes specified in District Rule 4623, Table 3 shall not constitute a violation of this rule. Leaking components as defined by District Rule 4623 discovered by District staff that were not previously identified and/or tagged by the operator, and/or any leaks that were not repaired within the timeframes specified in District Rule 4623, Table 3 shall constitute a violation of this rule. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 14. If a component type for a given tank/vessel is found to leak during an annual inspection, operator shall conduct quarterly inspections of that component type on the tank/vessel or tank/vessel system for four consecutive quarters. If no components are found to leak after four consecutive quarters, the operator may revert to annual inspections. [District Rules 2201 and 4623]
- 15. The permittee shall keep accurate records of the dates of inspection and monitoring and the components inspected and monitored. [District Rule 2201] Federally Enforceable Through Title V Permit
- 16. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date and time of leak detection, and method of detection; 3) Date and time of leak repair, and emission level of recheck after leak is repaired; 4) Method used to minimize the leak to lowest possible level within 8 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 17. Records of the VOC content of the gas shall be maintained and made readily available for District inspection upon request for a period of 5 years. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
- 18. All records of required monitoring data and support information shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

AUTHORITY TO CONSTRUCT

ISSU

PERMIT NO: S-6848-23-0

LEGAL OWNER OR OPERATOR: OCCIDENTAL OF ELK HILLS INC MAILING ADDRESS:

ATTN: DENNIS CHAMPION PO BOX 1001 **TUPMAN, CA 93276**

HEAVY OIL WESTERN

LOCATION:

SECTION: SE 35 TOWNSHIP: 30S RANGE: 22E

EQUIPMENT DESCRIPTION:

5000 BBL ORGANIC LIQUID STORAGE TANK VENTED TO VAPOR RECOVERY SYSTEM LISTED ON S-6848-15

CONDITIONS

- 1. [1830] This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
- 2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
- 3. This tank shall only store crude oil and/or produced water from heavy oil western stationary source. [District Rule 2201] Federally Enforceable Through Title V Pcrmit
- 4. Maximum VOC content of tank/vessel vapors shall not exceed 10% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 5. Operator shall conduct and keep records of quarterly sampling of tank/vessel vapors to qualify for exemption from fugitive component counts for components handling fluids with less than 10% VOC by weight. If fluids sampled are less than 10% VOC by weight for eight consecutive quarterly samplings, sampling frequency shall only be required annually. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rulea and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Directory APCO

DAVID WARNER, Director of Permit Services

Conditions for S-6848-23-0 (continued)

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- 6. A leak-free condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. [District Rule 2520] Federally Enforceable Through Title V Permit
- 7. Any tank/vessel gauging or sampling device shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 2201] Federally Enforceable Through Title V Permit
- Any component found to be leaking on two consecutive annual inspections is in violation of the District Rule 4623, even if it is under the voluntary inspection and maintenance program. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 9. Operator shall visually inspect tank/vessel shell, hatches, seals, seams, cable seals, valves, flanges, connectors, and any other piping components directly affixed to the tank/vessel and within five feet of the tank/vessel at least once per year for liquid leaks, and with a portable hydrocarbon detection instrument conducted in accordance with EPA Method 21 for gas leaks. Operator shall also visually or ultrasonically inspect as appropriate, the external shells and roofs of uninsulated tanks for structural integrity annually. [District Rule 2201 and 4623] Federally Enforceable Through Title V Permit
- 10. Upon detection of a liquid leak, defined as a leak rate of greater than or equal to 30 drops per minute, operator shall repair the leak within 8 hours. For leaks with a liquid leak rate of between 3 and 30 drops per minute, the leaking component shall be repaired within 24 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 11. Upon detection of a gas leak, defined as a VOC concentration of greater than 10,000 ppmv measured in accordance with EPA Method 21, operator shall take one of the following actions: 1) eliminate the leak within 8 hours after detection; or 2) if the leak cannot be eliminated, then minimize the leak to the lowest possible level within 8 hours after detection by using best maintenance practices, and eliminate the leak within 48 hours after minimization. In no event shall the total time to minimize and eliminate a leak exceed 56 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 12. Components found to be leaking either liquids or gases shall be immediately affixed with a tag showing the component to be leaking. Operator shall maintain records of the liquid or gas leak detection readings, date/time the leak was discovered, and date/time the component was repaired to a leak-free condition. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 13. Leaking components that have been discovered by the operator that have been immediately tagged and repaired within the timeframes specified in District Rule 4623, Table 3 shall not constitute a violation of this rule. Leaking components as defined by District Rule 4623 discovered by District staff that were not previously identified and/or tagged by the operator, and/or any leaks that were not repaired within the timeframes specified in District Rule 4623, Table 3 shall constitute a violation of this rule. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 14. If a component type for a given tank/vessel is found to leak during an annual inspection, operator shall conduct quarterly inspections of that component type on the tank/vessel or tank/vessel system for four consecutive quarters. If no components are found to leak after four consecutive quarters, the operator may revert to annual inspections. [District Rules 2201 and 4623]
- 15. The permittee shall keep accurate records of the dates of inspection and monitoring and the components inspected and monitored. [District Rule 2201] Federally Enforceable Through Title V Permit
- 16. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date and time of leak detection, and method of detection; 3) Date and time of leak repair, and emission level of recheck after leak is repaired; 4) Method used to minimize the leak to lowest possible level within 8 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 17. Records of the VOC content of the gas shall be maintained and made readily available for District inspection upon request for a period of 5 years. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
- 18. All records of required monitoring data and support information shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

5-5848-23-0 ; Feb 28 2014 8.23AM - EDGEHILR

AUTHORITY TO CONSTRUCT

ISSU

PERMIT NO: S-6848-24-0

LEGAL OWNER OR OPERATOR: OCCIDENTAL OF ELK HILLS INC MAILING ADDRESS: ATTN: DENNIS CHAMPION PO BOX 1001

LOCATION: HEAVY OIL WESTERN

SECTION: SE 35 TOWNSHIP: 30S RANGE: 22E

EQUIPMENT DESCRIPTION:

5000 BBL ORGANIC LIQUID STORAGE TANK VENTED TO VAPOR RECOVERY SYSTEM LISTED ON S-6848-15

TUPMAN, CA 93276

CONDITIONS

- {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
- 2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Tille V Permit
- 3. This tank shall only store crude oil and/or produced water from heavy oil western stationary source. [District Rule 2201] Federally Enforceable Through Title V Permit
- 4. Maximum VOC content of tank/vessel vapors shall not exceed 10% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 5. Operator shall conduct and keep records of quarterly sampling of tank/vessel vapors to qualify for exemption from fugitive component counts for components handling fluids with less than 10% VOC by weight. If fluids sampled are less than 10% VOC by weight for eight consecutive quarterly samplings, sampling frequency shall only be required annually. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU <u>MUST</u> NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIDR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an Inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unlass construction has commenced pursuant to Rula 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicent is responsible for complying with all laws, ordinances and regulations of all-ether governmental agencies which may pertain to the above equipment.

Seved Sadredin, Executive Dilectory APCO

DAVID WARNER Director of Permit Services 8-644-9-24-0: Feb 218 2014 R23ANG - EDGEHLR : Juni Impection NOT Required

Conditions for S-6848-24-0 (continued)

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- 6. A leak-free condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. [District Rule 2520] Federally Enforceable Through Title V Permit
- 7. Any tank/vessel gauging or sampling device shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 2201] Federally Enforceable Through Title V Permit
- 8. Any component found to be leaking on two consecutive annual inspections is in violation of the District Rule 4623, even if it is under the voluntary inspection and maintenance program. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 9. Operator shall visually inspect tank/vessel shell, hatches, seals, seams, cable seals, valves, flanges, connectors, and any other piping components directly affixed to the tank/vessel and within five feet of the tank/vessel at least once per year for liquid leaks, and with a portable hydrocarbon detection instrument conducted in accordance with EPA Method 21 for gas leaks. Operator shall also visually or ultrasonically inspect as appropriate, the external shells and roofs of uninsulated tanks for structural integrity annually. [District Rule 2201 and 4623] Federally Enforceable Through Title V Permit
- 10. Upon detection of a liquid leak, defined as a leak rate of greater than or equal to 30 drops per minute, operator shall repair the leak within 8 hours. For leaks with a liquid leak rate of between 3 and 30 drops per minute, the leaking component shall be repaired within 24 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 11. Upon detection of a gas leak, defined as a VOC concentration of greater than 10,000 ppmv measured in accordance with EPA Method 21, operator shall take one of the following actions: 1) eliminate the leak within 8 hours after detection; or 2) if the leak cannot be eliminated, then minimize the leak to the lowest possible level within 8 hours after detection by using best maintenance practices, and eliminate the leak within 48 hours after minimization. In no event shall the total time to minimize and eliminate a leak exceed 56 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 12. Components found to be leaking either liquids or gases shall be immediately affixed with a tag showing the component to be leaking. Operator shall maintain records of the liquid or gas leak detection readings, date/time the leak was discovered, and date/time the component was repaired to a leak-free condition. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 13. Leaking components that have been discovered by the operator that have been immediately tagged and repaired within the timeframes specified in District Rule 4623, Table 3 shall not constitute a violation of this rule. Leaking components as defined by District Rule 4623 discovered by District staff that were not previously identified and/or tagged by the operator, and/or any leaks that were not repaired within the timeframes specified in District Rule 4623, Table 3 shall constitute a violation of this rule. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 14. If a component type for a given tank/vessel is found to leak during an annual inspection, operator shall conduct quarterly inspections of that component type on the tank/vessel or tank/vessel system for four consecutive quarters. If no components are found to leak after four consecutive quarters, the operator may revert to annual inspections. [District Rules 2201 and 4623]
- 15. The permittee shall keep accurate records of the dates of inspection and monitoring and the components inspected and monitored. [District Rule 2201] Federally Enforceable Through Title V Permit
- 16. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date and time of leak detection, and method of detection; 3) Date and time of leak repair, and emission level of recheck after leak is repaired; 4) Method used to minimize the leak to lowest possible level within 8 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 17. Records of the VOC content of the gas shall be maintained and made readily available for District inspection upon request for a period of 5 years. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
- 18. All records of required monitoring data and support information shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

AUTHORITY TO CONSTRUCT

PERMIT NO: S-6848-25-0

MAILING ADDRESS:

LEGAL OWNER OR OPERATOR: OCCIDENTAL OF ELK HILLS INC ATTN: DENNIS CHAMPION PO BOX 1001 **TUPMAN, CA 93276**

LOCATION: HEAVY OIL WESTERN

SECTION: SE 35 TOWNSHIP: 30S RANGE: 22E

EQUIPMENT DESCRIPTION:

2000 BBL ORGANIC LIQUID STORAGE TANK VENTED TO VAPOR RECOVERY SYSTEM LISTED ON TEOR PERMIT S-6848-15

CONDITIONS

- 1. [1830] This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
- 2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
- This tank shall only store crude oil and/or produced water from heavy oil western stationary source. [District Rule 3. 2201] Federally Enforceable Through Title V Permit
- Maximum VOC content of tank/vessel vapors shall not exceed 10% by weight. [District Rule 2201] Federally 4. Enforceable Through Title V Permit
- 5. Operator shall conduct and keep records of quarterly sampling of tank/vessel vapors to qualify for exemption from fugitive component counts for components handling fluids with less than 10% VOC by weight. If fluids sampled are less than 10% VOC by weight for eight consecutive quarterly samplings, sampling frequency shall only be required annually. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT & PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Josquin Valiay Unlited Air Poliution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cencelled two years from the date of Issuance. The applicant is responsible for complying with ail iaws, ordinances and regulations of all-other governmental agencies which mey perlain to the above equipment.

APCO Seyed Sadredin, Executive

ISSL

Conditions for S-6848-25-0 (continued)

- 6. A leak-free condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. [District Rule 2520] Federally Enforceable Through Title V Permit
- 7. Any tank/vessel gauging or sampling device shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 2201] Federally Enforceable Through Title V Permit
- 8. Any component found to be leaking on two consecutive annual inspections is in violation of the District Rule 4623, even if it is under the voluntary inspection and maintenance program. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 9. Operator shall visually inspect tank/vessel shell, hatches, seals, seams, cable seals, valves, flanges, connectors, and any other piping components directly affixed to the tank/vessel and within five feet of the tank/vessel at least once per year for liquid leaks, and with a portable hydrocarbon detection instrument conducted in accordance with EPA Method 21 for gas leaks. Operator shall also visually or ultrasonically inspect as appropriate, the external shells and roofs of uninsulated tanks for structural integrity annually. [District Rule 2201 and 4623] Federally Enforceable Through Title V Permit
- 10. Upon detection of a liquid leak, defined as a leak rate of greater than or equal to 30 drops per minute, operator shall repair the leak within 8 hours. For leaks with a liquid leak rate of between 3 and 30 drops per minute, the leaking component shall be repaired within 24 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 11. Upon detection of a gas leak, defined as a VOC concentration of greater than 10,000 ppmv measured in accordance with EPA Method 21, operator shall take one of the following actions: 1) eliminate the leak within 8 hours after detection; or 2) if the leak cannot be eliminated, then minimize the leak to the lowest possible level within 8 hours after detection by using best maintenance practices, and eliminate the leak within 48 hours after minimization. In no event shall the total time to minimize and eliminate a leak exceed 56 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 12. Components found to be leaking either liquids or gases shall be immediately affixed with a tag showing the component to be leaking. Operator shall maintain records of the liquid or gas leak detection readings, date/time the leak was discovered, and date/time the component was repaired to a leak-free condition. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 13. Leaking components that have been discovered by the operator that have been immediately tagged and repaired within the timeframes specified in District Rule 4623, Table 3 shall not constitute a violation of this rule. Leaking components as defined by District Rule 4623 discovered by District staff that were not previously identified and/or tagged by the operator, and/or any leaks that were not repaired within the timeframes specified in District Rule 4623, Table 3 shall constitute a violation of this rule. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 14. If a component type for a given tank/vessel is found to leak during an annual inspection, operator shall conduct quarterly inspections of that component type on the tank/vessel or tank/vessel system for four consecutive quarters. If no components are found to leak after four consecutive quarters, the operator may revert to annual inspections. [District Rules 2201 and 4623]
- 15. The permittee shall keep accurate records of the dates of inspection and monitoring and the components inspected and monitored. [District Rule 2201] Federally Enforceable Through Title V Permit
- 16. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date and time of leak detection, and method of detection; 3) Date and time of leak repair, and emission level of recheck after leak is repaired; 4) Method used to minimize the leak to lowest possible level within 8 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 17. Records of the VOC content of the gas shall be maintained and made readily available for District inspection upon request for a period of 5 years. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
- 18. All records of required monitoring data and support information shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

AUTHORITY TO CONSTRUCT

ISSU

PERMIT NO: S-6848-26-0

MAILING ADDRESS:

LEGAL OWNER OR OPERATOR: OCCIDENTAL OF ELK HILLS INC ATTN: DENNIS CHAMPION PO BOX 1001 **TUPMAN, CA 93276**

LOCATION:

SECTION: SE 35 TOWNSHIP: 30S RANGE: 22E

HEAVY OIL WESTERN

EQUIPMENT DESCRIPTION:

2000 BBL ORGANIC LIQUID STORAGE TANK VENTED TO VAPOR RECOVERY SYSTEM LISTED ON TEOR PERMIT S-6848-15

CONDITIONS

- 1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
- 2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
- 3. This tank shall only store crude oil and/or produced water from heavy oil western stationary source. [District Rule 2201] Federally Enforceable Through Title V Permit
- 4. Maximum VOC content of tank/vessel vapors shall not exceed 10% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 5. Operator shall conduct and keep records of quarterly sampling of tank/vessel vapors to qualify for exemption from fugitive component counts for components handling fluids with less than 10% VOC by weight. If fluids sampled are less than 10% VOC by weight for eight consecutive quarterly samplings, sampling frequency shall only be required annually. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This IS NOT & PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspaction to verify that the equipment has been constructed in accordance with the approved plans, apecifications and conditions of this Authority to Construct, and to datermine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinancas and regulations of all other governmantai agancies which mey pertain to the above equipment.

Dinectory APCO Seyed Sadredin, Executive

Conditions for S-6848-26-0 (continued)

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- 6. A leak-free condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. [District Rule 2520] Federally Enforceable Through Title V Permit
- 7. Any tank/vessel gauging or sampling device shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 2201] Federally Enforceable Through Title V Permit
- 8. Any component found to be leaking on two consecutive annual inspections is in violation of the District Rule 4623, even if it is under the voluntary inspection and maintenance program. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 9. Operator shall visually inspect tank/vessel shell, hatches, seals, seams, cable seals, valves, flanges, connectors, and any other piping components directly affixed to the tank/vessel and within five feet of the tank/vessel at least once per year for liquid leaks, and with a portable hydrocarbon detection instrument conducted in accordance with EPA Method 21 for gas leaks. Operator shall also visually or ultrasonically inspect as appropriate, the external shells and roofs of uninsulated tanks for structural integrity annually. [District Rule 2201 and 4623] Federally Enforceable Through Title V Permit
- 10. Upon detection of a liquid leak, defined as a leak rate of greater than or equal to 30 drops per minute, operator shall repair the leak within 8 hours. For leaks with a liquid leak rate of between 3 and 30 drops per minute, the leaking component shall be repaired within 24 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 11. Upon detection of a gas leak, defined as a VOC concentration of greater than 10,000 ppmv measured in accordance with EPA Method 21, operator shall take one of the following actions: 1) eliminate the leak within 8 hours after detection; or 2) if the leak cannot be eliminated, then minimize the leak to the lowest possible level within 8 hours after detection by using best maintenance practices, and eliminate the leak within 48 hours after minimization. In no event shall the total time to minimize and eliminate a leak exceed 56 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 12. Components found to be leaking either liquids or gases shall be immediately affixed with a tag showing the component to be leaking. Operator shall maintain records of the liquid or gas leak detection readings, date/time the leak was discovered, and date/time the component was repaired to a leak-free condition. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 13. Leaking components that have been discovered by the operator that have been immediately tagged and repaired within the timeframes specified in District Rule 4623, Table 3 shall not constitute a violation of this rule. Leaking components as defined by District Rule 4623 discovered by District staff that were not previously identified and/or tagged by the operator, and/or any leaks that were not repaired within the timeframes specified in District Rule 4623, Table 3 shall constitute a violation of this rule. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 14. If a component type for a given tank/vessel is found to leak during an annual inspection, operator shall conduct quarterly inspections of that component type on the tank/vessel or tank/vessel system for four consecutive quarters. If no components are found to leak after four consecutive quarters, the operator may revert to annual inspections. [District Rules 2201 and 4623]
- 15. The permittee shall keep accurate records of the dates of inspection and monitoring and the components inspected and monitored. [District Rule 2201] Federally Enforceable Through Title V Permit
- 16. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date and time of leak detection, and method of detection; 3) Date and time of leak repair, and emission level of recheck after leak is repaired; 4) Method used to minimize the leak to lowest possible level within 8 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 17. Records of the VOC content of the gas shall be maintained and made readily available for District inspection upon request for a period of 5 years. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
- 18. All records of required monitoring data and support information shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

AUTHORITY TO CONSTRUCT

ISS

PERMIT NO: S-6848-27-0

LEGAL OWNER OR OPERATOR: OCCIDENTAL OF ELK HILLS INC MAILING ADDRESS: ATTN: DENNIS CHAMPION PO BOX 1001

PO BOX 1001 TUPMAN, CA 93276

HEAVY OIL WESTERN

LOCATION:

SECTION: SE 35 TOWNSHIP: 30S RANGE: 22E

EQUIPMENT DESCRIPTION:

1000 BBL ORGANIC LIQUID STORAGE TANK VENTED TO VAPOR RECOVERY SYSTEM LISTED ON TEOR PERMIT S-6848- 15

CONDITIONS

- {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
- {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
- 3. This tank shall only store crude oil and/or produced water from heavy oil western stationary source. [District Rule 2201] Federally Enforceable Through Title V Permit
- 4. Maximum VOC content of tank/vessel vapors shall not excced 10% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 5. Operator shall conduct and keep records of quarterly sampling of tank/vessel vapors to qualify for exemption from fugitive component counts for components handling fluids with less than 10% VOC by weight. If fluids sampled are less than 10% VOC by weight for eight consecutive quarterly samplings, sampling frequency shall only be required annually. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU <u>MUST</u> NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be mada after an inspaction to verify that the equipment has been constructed in accordance with the approval plans, specifications and conditions of this Authority to Construct, and to datermine if the equipment can be operated in compliance with all Rules and Regulations of the Sen Joaquin Vallay Unified Air Pollution Control District. Unless construction hes commanced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of Issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all-other governmental agancias which may partain to the above equipment.

Seyed Sadredin, Executive Dilectory APCO

DAVID WARNER, Director of Permit Services 86446-27-0: Feb 28 2014 9 23AM - EDGEHLA : Joint Inspection NOT Regulad

Conditions for S-6848-27-0 (continued)

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- 6. A leak-free condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. [District Rule 2520] Federally Enforceable Through Title V Permit
- 7. Any tank/vessel gauging or sampling device shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 2201] Federally Enforceable Through Title V Permit
- 8. Any component found to be leaking on two consecutive annual inspections is in violation of the District Rule 4623, even if it is under the voluntary inspection and maintenance program. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 9. Operator shall visually inspect tank/vessel shell, hatches, seals, seams, cable seals, valves, flanges, connectors, and any other piping components directly affixed to the tank/vessel and within five feet of the tank/vessel at least once per year for liquid leaks, and with a portable hydrocarbon detection instrument conducted in accordance with EPA Method 21 for gas leaks. Operator shall also visually or ultrasonically inspect as appropriate, the external shells and roofs of uninsulated tanks for structural integrity annually. [District Rule 2201 and 4623] Federally Enforceable Through Title V Permit
- 10. Upon detection of a liquid leak, defined as a leak rate of greater than or equal to 30 drops per minute, operator shall repair the leak within 8 hours. For leaks with a liquid leak rate of between 3 and 30 drops per minute, the leaking component shall be repaired within 24 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 11. Upon detection of a gas leak, defined as a VOC concentration of greater than 10,000 ppmv measured in accordance with EPA Method 21, operator shall take one of the following actions: 1) eliminate the leak within 8 hours after detection; or 2) if the leak cannot be eliminated, then minimize the leak to the lowest possible level within 8 hours after detection by using best maintenance practices, and eliminate the leak within 48 hours after minimization. In no event shall the total time to minimize and eliminate a leak exceed 56 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 12. Components found to be leaking either liquids or gases shall be immediately affixed with a tag showing the component to be leaking. Operator shall maintain records of the liquid or gas leak detection readings, date/time the leak was discovered, and date/time the component was repaired to a leak-free condition. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 13. Leaking components that have been discovered by the operator that have been immediately tagged and repaired within the timeframes specified in District Rule 4623, Table 3 shall not constitute a violation of this rule. Leaking components as defined by District Rule 4623 discovered by District staff that were not previously identified and/or tagged by the operator, and/or any leaks that were not repaired within the timeframes specified in District Rule 4623, Table 3 shall constitute a violation of this rule. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 14. If a component type for a given tank/vessel is found to leak during an annual inspection, operator shall conduct quarterly inspections of that component type on the tank/vessel or tank/vessel system for four consecutive quarters. If no components are found to leak after four consecutive quarters, the operator may revert to annual inspections. [District Rules 2201 and 4623]
- 15. The permittee shall keep accurate records of the dates of inspection and monitoring and the components inspected and monitored. [District Rule 2201] Federally Enforceable Through Title V Permit
- 16. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date and time of leak detection, and method of detection; 3) Date and time of leak repair, and emission level of recheck after leak is repaired; 4) Method used to minimize the leak to lowest possible level within 8 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 17. Records of the VOC content of the gas shall be maintained and made readily available for District inspection upon request for a period of 5 years. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
- 18. All records of required monitoring data and support information shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

AUTHORITY TO CONSTRUCT

ISSU.

PERMIT NO: S-6848-28-0

MAILING ADDRESS:

LEGAL OWNER OR OPERATOR: OCCIDENTAL OF ELK HILLS INC ATTN: DENNIS CHAMPION PO BOX 1001 **TUPMAN, CA 93276**

LOCATION: HEAVY OIL WESTERN

SECTION: SE 35 TOWNSHIP: 30S RANGE: 22E

EQUIPMENT DESCRIPTION:

26.000 GALLON INDUCED GAS FLOATATION VESSEL VENTED TO VAPOR RECOVERY SYSTEM LISTED ON TEOR PERMIT S-6848-15

CONDITIONS

- [1830] This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 1. CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
- 2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
- Maximum VOC content of tank/vessel vapors shall not exceed 10% by weight. [District Rule 2201] Federally 3. Enforceable Through Title V Permit
- Operator shall conduct and keep records of quarterly sampling of tank/vessel vapors to qualify for exemption from 4. fugitive component counts for components handling fluids with less than 10% VOC by weight. If fluids sampled are less than 10% VOC by weight for eight consecutive quarterly samplings, sampling frequency shall only be required annually. [District Rule 2201] Federally Enforceable Through Title V Permit
- A leak-free condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 5. 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. [District Rule 2520] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, apecifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the Sen Joequin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all-other governmental egencies which may pertein to the above equipment.

APCO Seyed Sadredin, Executive Dillactdi

Conditions for S-6848-28-0 (continued)

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- 6. Any tank/vessel gauging or sampling device shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 2201] Federally Enforceable Through Title V Permit
- 7. Any component found to be leaking on two consecutive annual inspections is in violation of the District Rule 4623, even if it is under the voluntary inspection and maintenance program. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 8. Operator shall visually inspect tank/vessel shell, hatches, seals, seams, cable seals, valves, flanges, connectors, and any other piping components directly affixed to the tank/vessel and within five feet of the tank/vessel at least once per year for liquid leaks, and with a portable hydrocarbon detection instrument conducted in accordance with EPA Method 21 for gas leaks. Operator shall also visually or ultrasonically inspect as appropriate, the external shells and roofs of uninsulated tanks for structural integrity annually. [District Rule 2201 and 4623] Federally Enforceable Through Title V Permit
- 9. Upon detection of a liquid leak, defined as a leak rate of greater than or equal to 30 drops per minute, operator shall repair the leak within 8 hours. For leaks with a liquid leak rate of between 3 and 30 drops per minute, the leaking component shall be repaired within 24 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 10. Upon detection of a gas leak, defined as a VOC concentration of greater than 10,000 ppmv measured in accordance with EPA Method 21, operator shall take one of the following actions: 1) eliminate the leak within 8 hours after detection; or 2) if the leak cannot be eliminated, then minimize the leak to the lowest possible level within 8 hours after detection by using best maintenance practices, and eliminate the leak within 48 hours after minimization. In no event shall the total time to minimize and eliminate a leak exceed 56 hours after detection. [District Rules 2201 and 4623] Fcderally Enforceable Through Title V Permit
- 11. Components found to be leaking either liquids or gases shall be immediately affixed with a tag showing the component to be leaking. Operator shall maintain records of the liquid or gas leak detection readings, date/time the leak was discovered, and date/time the component was repaired to a leak-free condition. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 12. Leaking components that have been discovered by the operator that have been immediately tagged and repaired within the timeframes specified in District Rule 4623, Table 3 shall not constitute a violation of this rule. Leaking components as defined by District Rule 4623 discovered by District staff that were not previously identified and/or tagged by the operator, and/or any leaks that were not repaired within the timeframes specified in District Rule 4623, Table 3 shall constitute a violation of this rule. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 13. If a component type for a given tank/vessel is found to leak during an annual inspection, operator shall conduct quarterly inspections of that component type on the tank/vessel or tank/vessel system for four consecutive quarters. If no components are found to leak after four consecutive quarters, the operator may revert to annual inspections. [District Rules 2201 and 4623]
- 14. The permittee shall keep accurate records of the dates of inspection and monitoring and the components inspected and monitored. [District Rule 2201] Federally Enforceable Through Title V Permit
- 15. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date and time of leak detection, and method of detection; 3) Date and time of leak repair, and emission level of recheck after leak is repaired; 4) Method used to minimize the leak to lowest possible level within 8 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 16. Records of the VOC content of the gas shall be maintained and made readily available for District inspection upon request for a period of 5 years. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
- 17. All records of required monitoring data and support information shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit



AUTHORITY TO CONSTRUCT

ISSU

PERMIT NO: S-6848-29-0

MAILING ADDRESS:

LEGAL OWNER OR OPERATOR: OCCIDENTAL OF ELK HILLS INC **ATTN: DENNIS CHAMPION** PO BOX 1001 **TUPMAN, CA 93276**

HEAVY OIL WESTERN

LOCATION:

SECTION: SE 35 TOWNSHIP: 30S RANGE: 22E

EQUIPMENT DESCRIPTION:

26,000 GALLON INDUCED GAS FLOATATION VESSEL VENTED TO VAPOR RECOVERY SYSTEM LISTED ON TEOR PERMIT S-6848-15

CONDITIONS

- 1. [1830] This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
- {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an 2. application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
- 3. Maximum VOC content of tank/vessel vapors shall not exceed 10% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 4. Operator shall conduct and keep records of quarterly sampling of tank/vessel vapors to qualify for exemption from fugitive component counts for components handling fluids with less than 10% VOC by weight. If fluids sampled are less than 10% VOC by weight for eight consecutive quarterly samplings, sampling frequency shall only be required annually. [District Rule 2201] Federally Enforceable Through Title V Permit
- 5. A leak-free condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. [District Rule 2520] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This IS NOT & PERMIT TO OPERATE, Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the aquipment has been constructed in accordance with the approved plane, specifications and conditions of this Authority to Conatruct, and to detarmina if the equipment can be operated in compliance with all Rulas and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall axpire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances end regulations of all-other govarnmentel egencies which may pertein to the above equipment.

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Conditions for S-6848-29-0 (continued)

- 6. Any tank/vessel gauging or sampling device shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 2201] Federally Enforceable Through Title V Permit
- 7. Any component found to be leaking on two consecutive annual inspections is in violation of the District Rule 4623, even if it is under the voluntary inspection and maintenance program. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 8. Operator shall visually inspect tank/vessel shell, hatches, seals, seams, cable seals, valves, flanges, connectors, and any other piping components directly affixed to the tank/vessel and within five feet of the tank/vessel at least once per year for liquid leaks, and with a portable hydrocarbon detection instrument conducted in accordance with EPA Method 21 for gas leaks. Operator shall also visually or ultrasonically inspect as appropriate, the external shells and roofs of uninsulated tanks for structural integrity annually. [District Rule 2201 and 4623] Federally Enforceable Through Title V Permit
- 9. Upon detection of a liquid leak, defined as a leak rate of greater than or equal to 30 drops per minute, operator shall repair the leak within 8 hours. For leaks with a liquid leak rate of between 3 and 30 drops per minute, the leaking component shall be repaired within 24 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 10. Upon detection of a gas leak, defined as a VOC concentration of greater than 10,000 ppmv measured in accordance with EPA Method 21, operator shall take one of the following actions: 1) eliminate the leak within 8 hours after detection; or 2) if the leak cannot be eliminated, then minimize the leak to the lowest possible level within 8 hours after detection by using best maintenance practices, and eliminate the leak within 48 hours after minimization. In no event shall the total time to minimize and eliminate a leak exceed 56 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 11. Components found to be leaking either liquids or gases shall be immediately affixed with a tag showing the component to be leaking. Operator shall maintain records of the liquid or gas leak detection readings, date/time the leak was discovered, and date/time the component was repaired to a leak-free condition. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 12. Leaking components that have been discovered by the operator that have been immediately tagged and repaired within the timeframes specified in District Rule 4623, Table 3 shall not constitute a violation of this rule. Leaking components as defined by District Rule 4623 discovered by District staff that were not previously identified and/or tagged by the operator, and/or any leaks that were not repaired within the timeframes specified in District Rule 4623, Table 3 shall constitute a violation of this rule. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 13. If a component type for a given tank/vessel is found to leak during an annual inspection, operator shall conduct quarterly inspections of that component type on the tank/vessel or tank/vessel system for four consecutive quarters. If no components are found to leak after four consecutive quarters, the operator may revert to annual inspections. [District Rules 2201 and 4623]
- 14. The permittee shall keep accurate records of the dates of inspection and monitoring and the components inspected and monitored. [District Rule 2201] Federally Enforceable Through Title V Permit
- 15. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date and time of leak detection, and method of detection; 3) Date and time of leak repair, and emission level of recheck after leak is repaired; 4) Method used to minimize the leak to lowest possible level within 8 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 16. Records of the VOC content of the gas shall be maintained and made readily available for District inspection upon request for a period of 5 years. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
- 17. All records of required monitoring data and support information shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit



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AUTHORITY TO CONSTRUCT

PERMIT NO: S-6848-30-0

MAILING ADDRESS:

LEGAL OWNER OR OPERATOR: OCCIDENTAL OF ELK HILLS INC ATTN: DENNIS CHAMPION PO BOX 1001 **TUPMAN, CA 93276**

HEAVY OIL WESTERN

LOCATION:

SECTION: SE 35 TOWNSHIP: 30S RANGE: 22E

EQUIPMENT DESCRIPTION:

500 BBL ORGANIC LIQUID STORAGE TANK VENTED TO VAPOR RECOVERY SYSTEM LISTED ON TEOR PERMIT S-6848-15

CONDITIONS

- 1. [1830] This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
- 2. [1831] Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
- 3. This tank shall only store crude oil and/or produced water from heavy oil western stationary source. [District Rule 2201] Federally Enforceable Through Title V Permit
- Maximum VOC content of tank/vessel vapors shall not exceed 10% by weight. [District Rule 2201] Federally 4. Enforceable Through Title V Permit
- Operator shall conduct and keep records of quarterly sampling of tank/vessel vapors to qualify for exemption from 5. fugilive component counts for components handling fluids with less than 10% VOC by weight. If fluids sampled are less than 10% VOC by weight for eight consecutive quarterly samplings, sampling frequency shall only be required annually. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MDDIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NDT & PERMIT TD DPERATE. Approval or danial of a PERMIT TO OPERATE will be mada aftar an inapection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determina if the equipment can be operated in compliance with all Rules and Regulations of the Sen Joaquin Valley Unifiad Air Poliution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct ahall expire and epplication shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all-othar governmental agencies which may pertain to the above equipment.

Dilectory APCO Seved SadredIn, Executive

Conditions for S-6848-30-0 (continued)

- 6. A leak-free condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. [District Rule 2520] Federally Enforceable Through Title V Permit
- 7. Any tank/vessel gauging or sampling device shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 2201] Federally Enforceable Through Title V Permit
- 8. Any component found to be leaking on two consecutive annual inspections is in violation of the District Rule 4623, even if it is under the voluntary inspection and maintenance program. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 9. Operator shall visually inspect tank/vessel shell, hatches, seals, seams, cable seals, valves, flanges, connectors, and any other piping components directly affixed to the tank/vessel and within five feet of the tank/vessel at least once per year for liquid leaks, and with a portable hydrocarbon detection instrument conducted in accordance with EPA Method 21 for gas leaks. Operator shall also visually or ultrasonically inspect as appropriate, the external shells and roofs of uninsulated tanks for structural integrity annually. [District Rule 2201 and 4623] Federally Enforceable Through Title V Permit
- 10. Upon detection of a liquid leak, defined as a leak rate of greater than or equal to 30 drops per minute, operator shall repair the leak within 8 hours. For leaks with a liquid leak rate of between 3 and 30 drops per minute, the leaking component shall be repaired within 24 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 11. Upon detection of a gas leak, defined as a VOC concentration of greater than 10,000 ppmv measured in accordance with EPA Method 21, operator shall take one of the following actions: 1) eliminate the leak within 8 hours after detection; or 2) if the leak cannot be eliminated, then minimize the leak to the lowest possible level within 8 hours after detection by using best maintenance practices, and eliminate the leak within 48 hours after minimization. In no event shall the total time to minimize and eliminate a leak exceed 56 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 12. Components found to be leaking either liquids or gases shall be immediately affixed with a tag showing the component to be leaking. Operator shall maintain records of the liquid or gas leak detection readings, date/time the leak was discovered, and date/time the component was repaired to a leak-free condition. [District Rules 2201 and 4623] Fcderally Enforceable Through Title V Permit
- 13. Leaking components that have been discovered by the operator that have been immediately tagged and repaired within the timeframes specified in District Rule 4623, Table 3 shall not constitute a violation of this rule. Leaking components as defined by District Rule 4623 discovered by District staff that were not previously identified and/or tagged by the operator, and/or any leaks that were not repaired within the timeframes specified in District Rule 4623, Table 3 shall constitute a violation of this rule. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
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- 15. The permittee shall keep accurate records of the dates of inspection and monitoring and the components inspected and monitored. [District Rule 2201] Federally Enforceable Through Title V Permit
- 16. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date and time of leak detection, and method of detection; 3) Date and time of leak repair, and emission level of recheck after leak is repaired; 4) Method used to minimize the leak to lowest possible level within 8 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 17. Records of the VOC content of the gas shall be maintained and made readily available for District inspection upon request for a period of 5 years. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
- 18. All records of required monitoring data and support information shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

AUTHORITY TO CONSTRUCT

ISSU

PERMIT NO: S-6848-31-0

LEGAL OWNER OR OPERATOR: OCCIDENTAL OF ELK HILLS INC MAILING ADDRESS:

ATTN: DENNIS CHAMPION PO BOX 1001 **TUPMAN, CA 93276**

LOCATION: HEAVY OIL WESTERN

SECTION: SE 35 TOWNSHIP: 30S RANGE: 22E

EQUIPMENT DESCRIPTION:

1000 BBL ORGANIC LIQUID STORAGE TANK VENTED TO VAPOR RECOVERY SYSTEM LISTED ON TEOR PERMIT S-6848-15

CONDITIONS

- 1. [1830] This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
- 2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
- 3. This tank shall only store crude oil and/or produced water from heavy oil western stationary source. [District Rule 2201] Federally Enforceable Through Title V Permit
- 4. Maximum VOC content of tank/vessel vapors shall not exceed 10% by weight. [District Rule 2201] Federally **Enforceable Through Title V Permit**
- 5. Operator shall conduct and keep records of guarterly sampling of tank/vessel vapors to gualify for exemption from fugitive component counts for components handling fluids with less than 10% VOC by weight. If fluids sampled are less than 10% VOC by weight for eight consecutive quarterly samplings, sampling frequency shall only be required annually. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Difectory APCO Seyed Sadredin, Executive

Conditions for S-6848-31-0 (continued)

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- 6. A leak-free condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. [District Rule 2520] Federally Enforceable Through Title V Permit
- 7. Any tank/vessel gauging or sampling device shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 2201] Federally Enforceable Through Title V Permit
- 8. Any component found to be leaking on two consecutive annual inspections is in violation of the District Rule 4623, even if it is under the voluntary inspection and maintenance program. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
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- 10. Upon detection of a liquid leak, defined as a leak rate of greater than or equal to 30 drops per minute, operator shall repair the leak within 8 hours. For leaks with a liquid leak rate of between 3 and 30 drops per minute, the leaking component shall be repaired within 24 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 11. Upon detection of a gas leak, defined as a VOC concentration of greater than 10,000 ppmv measured in accordance with EPA Method 21, operator shall take one of the following actions: 1) eliminate the leak within 8 hours after detection; or 2) if the leak cannot be eliminated, then minimize the leak to the lowest possible level within 8 hours after detection by using best maintenance practices, and eliminate the leak within 48 hours after minimization. In no event shall the total time to minimize and eliminate a leak exceed 56 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 12. Components found to be leaking either liquids or gases shall be immediately affixed with a tag showing the component to be leaking. Operator shall maintain records of the liquid or gas leak detection readings, date/time the leak was discovered, and date/time the component was repaired to a leak-free condition. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 13. Leaking components that have been discovered by the operator that have been immediately tagged and repaired within the timeframes specified in District Rule 4623, Table 3 shall not constitute a violation of this rule. Leaking components as defined by District Rule 4623 discovered by District staff that were not previously identified and/or tagged by the operator, and/or any leaks that were not repaired within the timeframes specified in District Rule 4623, Table 3 shall constitute a violation of this rule. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 14. If a component type for a given tank/vessel is found to leak during an annual inspection, operator shall conduct quarterly inspections of that component type on the tank/vessel or tank/vessel system for four consecutive quarters. If no components are found to leak after four consecutive quarters, the operator may revert to annual inspections. [District Rules 2201 and 4623]
- 15. The permittee shall keep accurate records of the dates of inspection and monitoring and the components inspected and monitored. [District Rule 2201] Federally Enforceable Through Title V Permit
- 16. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date and time of leak detection, and method of detection; 3) Date and time of leak repair, and emission level of recheck after leak is repaired; 4) Method used to minimize the leak to lowest possible level within 8 hours after detection. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 17. Records of the VOC content of the gas shall be maintained and made readily available for District inspection upon request for a period of 5 years. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
- 18. All records of required monitoring data and support information shall be maintained for a period of at least five years and shall be made readily available for Distuict inspection upon request. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

AUTHORITY TO CONSTRUCT

ISSU

PERMIT NO: S-6848-32-0

MAILING ADDRESS:

LEGAL OWNER OR OPERATOR: OCCIDENTAL OF ELK HILLS INC ATTN: DENNIS CHAMPION PO BOX 1001 **TUPMAN, CA 93276**

LOCATION:

HEAVY OIL WESTERN

SECTION: SE 35 TOWNSHIP: 30S RANGE: 22E

EQUIPMENT DESCRIPTION:

1.2 MMSCF/DAY JOHN ZINK AIR ASSIST FLARE (OR EQUIVALENT)

CONDITIONS

- 1. [1830] This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
- 2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
- 3. The permittee shall obtain written District approval for the use of any equivalent equipment not specifically approved by this Authority to Construct. Approval of the equivalent equipment shall be made only after the District's determination that the submitted design and performance of the proposed alternate equipment is equivalent to the specifically authorized equipment. [District Rule 2201] Federally Enforceable Through Title V Permit
- 4. The permittee's request for approval of equivalent equipment shall include the make, model, manufacturer's maximum rating, manufacturer's guaranteed emission rates, equipment drawing(s), and operational characteristics/parameters. [District Rule 2010] Federally Enforceable Through Title V Permit
- 5. Alternate equipment shall be of the same class and category of source as the equipment authorized by the Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rula 2050, this Authority to Construct shail expire and application shall be cancelled two years from the data of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of الفراط ether govarnmental agencies which may pertain to the above equipment.

YÁPCO Seyed Sadredin, Executive

DAVID WARNER, Director of Permit Services

Conditions for S-6848-32-0 (continued)

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- 6. No emission factor and no emission shall be greater for the alternate equipment than for the proposed equipment. No changes in the hours of operation, operating rate, throughput, or firing rate may be authorized for any alternate equipment. [District Rule 2201] Federally Enforceable Through Title V Permit
- 7. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1/4 or 5% opacity. [District Rule 2201] Federally Enforceable Through Title V Permit
- 8. The flare shall be equipped with an operational gas flow meter. [District Rule 2201] Federally Enforceable Through Title V Permit
- 9. Open flares in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the provisions of 40 CFR 60.18. [District Rule 4311] Federally Enforceable Through Title V Permit
- 10. Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting the presence of at least one pilot flame or the flare flame, shall be installed and operated. [District Rule 4311] Federally Enforceable Through Title V Permit
- 11. If the flare uses a flow-sensing automatic ignition system and does not use a continuous flame pilot, the flare shall use purge gas for purging. [District Rule 4311] Federally Enforceable Through Title V Permit
- 12. Flare outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare. The pilot need not be present when the flare is isolated for required flare maintenance. [40 CFR 60.18(c)(2), District Rule 4311, 5.3] Federally Enforceable Through Title V Permit
- 13. {649} Flares shall be designed for and operated with no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours. [40 CFR 60.18(c)(1)] Federally Enforceable Through Title V Permit
- 14. (650) Demonstration of compliance with the visible emissions limit of this permit shall be conducted at least annually, using EPA Method 22. The observation period shall be 2 hours. [40 CFR 60.18(f)(1)] Federally Enforceable Through Title V Permit
- 15. Flares shall only be used with the net heating value of the gas being combusted being 300 Btu/scf or greater if the flare is air-assisted or steam-assisted. [40 CFR 60.18 (c)(3] Federally Enforceable Through Title V Permit
- 16. The net heating value of the gas being combusted in a flare shall be calculated annually, pursuant to 40 CFR 60.18(f)(3) and using ASTM D 1826 or D 1945 in conjunction with ASTM D 3588. [40 CFR 60.18 (f)(3-6] Federally Enforceable Through Title V Permit
- 17. Flares shall be operated with a flame present at all times, and kept in operation when emissions may be vented to them. The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame. [40 CFR 60.18 (c)(2), 60.18 (e), and 60.18 (f)(2)] Federally Enforceable Through Title V Permit
- Gas combusted in flare shall not exceed 1056 MMBtu/day nor 31,680 MMBtu/yr. [District Rule 2201] Federally Enforceable Through Title V Permit
- Sulfur content of flared gas shall not exceed 15 gr S/100 scf. [District Rule 2201] Federally Enforceable Through Title V Permit
- The emissions from the flare shall not exceed any of the following limits: 0.068 lb-NOx/MMBtu, 0.008 lb-PM10/MMBtu, 0.370 lb-CO/MMBtu, or 0.063 lb-VOC/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
- 21. Testing to demonstrate compliance with the production gas fuel sulfur content limit shall be conducted weekly. Once eight (8) consecutive weekly tests show compliance, the fuel sulfur content testing frequency may be reduced to semi-annually. If a semi-annual test shows violation of the sulfur content limit, then weekly testing shall resume and continue until eight (8) consecutive tests show compliance. Once compliance is shown on eight (8) consecutive weekly tests, then testing may return to semi-annually. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

Conditions for S-6848-32-0 (continued)

- 22. Sulfur content of flared gas shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or double GC for H2S and mercaptans. [District Rule 1081] Federally Enforceable Through Title V Permit
- 23. Operator shall determine fuel hhv at time of sulfur testing by ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rule 2201] Federally Enforceable Through Title V Permit
- 24. Semi-annual reports of all periods without the presence of a flare pilot flame shall be furnished to the District Compliance Division and EPA. [District Rule 4001 40CFR 60.115b(d)(3] Federally Enforceable Through Title V Permit
- 25. Upon request, the operator of flares that are subject to provisions of Section 5.6 of Rule 4311 shall make available, to the APCO, the compliance determination records that demonstrate compliance with the provisions of 40 CFR 60.18, (c)(3) through (c)(5). [40 CFR 60.18 (c) and District Rule 4311] Federally Enforceable Through Title V Permit
- 26. Operator shall monitor the vent gas flow to the flare with a flow measuring device or other District-approved parameters. The operator shall maintain records pursuant to Section 6.1.7 of Rule 4311. [District Rule 4311] Federally Enforceable Through Title V Permit
- 27. Operator shall submit an annual report to the APCO that summarizes all Reportable Flaring Events as defined in Section 3.0 that occurred during the previous 12 month period. The report shall be submitted within 30 days following the end of the twelve month period of the previous year. The report shall include the items set forth in Sections 6.2.2.1 through 6.2.2.4 of Rule 4311 (as amended 6/18/09). [District Rule 4311] Federally Enforceable Through Title V Permit
- 28. Operator shall submit an annual report to the APCO within 30 days following the end of the twelve month period of the previous year. The report shall include, as is applicable, the items set forth in Sections 6.2.3.1 through 6.2.3.8 of Rule 4311 (as amended 6/18/09). [District Rule 4311] Federally Enforceable Through Title V Permit
- 29. Records shall be maintained of all periods when the flare pilot flame is absent. [District Rule 40CFR 60.115(d)(2)] Federally Enforceable Through Title V Permit
- 30. The permittee shall maintain monthly averaged daily and annual records of the volume (scf) of the gas flared and annual records of the sulfur content (ppmv) and hhv of the gas flared. [District Rule 2201] Federally Enforceable Through Title V Permit
- 31. All records, including required monitoring data and support information, shall be maintained and retained for a period of 5 years and made available for inspection at any time. [District Rule 1070]
- 32. Prior to operating equipment under this Authority to Construct, permittee shall surrender emission reduction credits for the following quantities of emissions: NOx: 808 lb/quarter.; PM10: 95 lbs/quarter; VOC: 749 lb/quarter Offsets include the applicable offset ratio specified in Section 4.8 of Rule 2201 (as amended 4/21/11). [District Rule 2201] Federally Enforceable Through Title V Permit
- 33. ERC Certificate Numbers N-946-2, S-4084-2, N-769-2, S-3580-1 and N-1092-5 (or certificates split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit