

### Certificate of Analysis

Number: 6030-23120311-001A

**Artesia Laboratory** 200 E Main St. Artesia, NM 88210 Phone 575-746-3481

**Chandler Montgomery** Occidental Petroleum 1502 W Commerce Dr. Carlsbad, NM 88220

Jan. 11, 2024

Field: PERMIAN RESOURCES Sampled By: JΕ Station Name: Sand Dunes CTB Check Sample Of: Gas

Spot Station Number: 17000C Sample Date: 12/28/2023 09:20

Station Location: OP-L0901-BT002 Sample Conditions: 88 psig, @ 68 °F Ambient: 31 °F 12/28/2023 09:20 Sample Point: Meter Effective Date:

NEW\_MEXICO 17996 MSCFD Formation: Flow Rate: County: Method: GPA-2261M

Well Name: CTB Cylinder No: 5030-01063

Type of Sample: : Spot-Cylinder Instrument: 70104251 (Inficon GC-MicroFusion)

Heat Trace Used: N/A Last Inst. Cal.: 01/09/2024 0:00 AM

Sampling Method: : Fill and Purge Analyzed: 01/09/2024 08:30:50 by EBH

Sampling Company: : OXY

### **Analytical Data**

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia	
Hydrogen Sulfide	0.0000	0.0000	0.0000		
Nitrogen	1.2725	1.3037	1.5990		
Carbon Dioxide	0.5710	0.5850	1.1272		
Methane	70.6744	72.4044	50.8552		
Ethane	12.9937	13.3118	17.5248	3.555	
Propane	7.3509	7.5308	14.5390	2.072	
Iso-Butane	0.8677	0.8889	2.2620	0.290	
n-Butane	2.1166	2.1684	5.5180	0.683	
Iso-Pentane	0.4679	0.4794	1.5143	0.175	
n-Pentane	0.5187	0.5314	1.6786	0.192	
Hexanes	0.3367	0.3449	1.3013	0.142	
Heptanes	0.2976	0.3049	1.3376	0.140	
Octanes	0.1258	0.1289	0.6447	0.066	
Nonanes Plus	0.0170	0.0175	0.0983	0.010	
	97.6105	100.0000	100.0000	7.325	
Calculated Physical F	Properties	Tot	al	C9+	
Calculated Molecular V	Veight	22.8	34	128.26	
Compressibility Factor		0.995	57		
Relative Density Real (	Gas	0.791	17	4.4283	
GPA 2172 Calculation					
Calculated Gross BTI	sia & 60°F				
Real Gas Dry BTU		1340	.5	6974.4	
Water Sat. Gas Base E	-	1317	.6	6852.4	
Ideal, Gross HV - Dry a	at 14.65 psia	1334	.7	6974.4	
Ideal, Gross HV - Wet		1311	.4	6852.4	
Comments: H2S Fiel	ld Content 0 ppm				

FMP/LSE NM40659

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality

assurance, unless otherwise stated.

### **UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM**

Facility: Sand Dunes South Corridor Flare Date: 11/12/2024

**Duration of Event:** 7 Hours 2 Minutes **MCF Flared:** 125

Start Time: 10:24 AM End Time: 05:26 PM

Cause: Emergency Flare > Scheduled Modification to VRU Suction Line > VRU's > VRT's

Method of Flared Gas Measurement: Gas Flare Meter

### 1. Reason why this event was beyond Operator's control:

In this instance, this was a planned flare, as this event was a scheduled modification to the suction line for the VRUs servicing the production VRTs resulted in brief instances of overpressure at the facility, which triggered intermittent flaring events. This modification to the suction line for the VRU's was necessary to improve the efficiency of the VRU operations. Flow from the heaters was diverted to the oil production tanks while inlet piping was changed for the low pressure VRU unit #1 and low pressure VRU unit #2. OXY made every effort to control and minimize emissions as much as possible during this planned modification to VRU equipment. To mitigate the risks associated with overpressure of the facility during this process and to ensure the safety of our operations, we have had to resort to controlled and safety flaring. This process allows us to safely burn off the excess gas, thereby preventing potential hazards such as equipment damage, leaks, or even explosions. While flaring is not Oxy's preferred method of handling excess gas, it is a necessary step under these exceptional circumstances to maintain the integrity and safety of our operations. OXY made every effort to control and minimize emissions as much as possible.

### 2. Steps Taken to limit duration and magnitude of venting or flaring:

It is OXY's policy to route its stranded gas to a flare during a planned, or an unforeseen and unavoidable emergency or malfunction, that is beyond Oxy's control to avoid, prevent or foresee, to minimize emissions as much as possible as part of the overall steps taken to limit duration and magnitude of flaring. In this instance, this was a planned flare, as this event was a scheduled modification to the suction line for the VRUs servicing the production VRTs resulted in brief instances of overpressure at the facility, which triggered intermittent flaring events. This modification to the suction line for the VRU's was necessary to improve the efficiency of the VRU operations. Flow from the heaters was diverted to the oil production tanks while inlet piping was changed for the low pressure VRU unit #1 and low pressure VRU unit #2. VRU mechanics were on-site to assist during this planned procedure and to ensure that the VRU's were restarted, and no issues occurred. While flaring is not Oxy's preferred method of handling excess gas, it is a necessary step under these exceptional circumstances to maintain the integrity and safety of our operations. OXY made every effort to control and minimize emissions as much as possible.

### 3. Corrective Actions taken to eliminate the cause and reoccurrence of venting or flaring:

In this instance, this was a planned flare, as this event was a scheduled modification to the suction line for the VRUs servicing the production VRTs resulted in brief instances of overpressure at the facility, which triggered intermittent flaring events. This modification to the suction line for the VRU's was necessary to improve the efficiency of the VRU operations. While flaring is not Oxy's preferred method of handling excess gas, it is a necessary step under these exceptional circumstances to maintain the integrity and safety of our operations. OXY made every effort to control and minimize emissions as much as possible.

General Information Phone: (505) 629-6116

Online Phone Directory <a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

DEFINITIONS

Action 407191

#### **DEFINITIONS**

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	407191
l l	Action Type:
	[C-129] Venting and/or Flaring (C-129)

#### **DEFINITIONS**

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application:

- this application's operator, hereinafter "this operator";
- venting and/or flaring, hereinafter "vent or flare";
- any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";
- the statements in (and/or attached to) this, hereinafter "the statements in this";
- and the past tense will be used in lieu of mixed past/present tense questions and statements.

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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS

Action 407191

QI	UESTIONS	
Operator:		OGRID:
OXY USA INC P.O. Box 4294		16696 Action Number:
Houston, TX 772104294		407191
		Action Type: [C-129] Venting and/or Flaring (C-129)
QUESTIONS		
Prerequisites		
Any messages presented in this section, will prevent submission of this application. Please resolve t	hese issues before continuing with	h the rest of the questions.
Incident Well	Unavailable.	
Incident Facility	[fAPP2127048458] Sand Du	unes South Corridor CTB
Determination of Reporting Requirements		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers an Was this vent or flare caused by an emergency or malfunction		
Did this vent or flare last eight hours or more cumulatively within any 24-hour	Yes	
period from a single event	No	
Is this considered a submission for a vent or flare event	Yes, minor venting and/or f	flaring of natural gas.
An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during v	enting and/or flaring that is or may	he a major or minor release under 19 15 29 7 NMAC
Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes	De a major of minor release ander 15.16.25.7 Nimite.
Did this vent or flare result in the release of <b>ANY</b> liquids (not fully and/or completely		
flared) that reached (or has a chance of reaching) the ground, a surface, a watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water	No	
Was the vent or flare within an incorporated municipal boundary or withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No	
For the second s		
Equipment Involved	Г	
Primary Equipment Involved	Other (Specify)	
Additional details for Equipment Involved. Please specify	Emergency Flare > Schedul	led Modification to VRU Suction Line > VRU's > VRT's
Representative Compositional Analysis of Vented or Flared Natural Gas		
Please provide the mole percent for the percentage questions in this group.		
Methane (CH4) percentage	72	
Nitrogen (N2) percentage, if greater than one percent	1	
Hydrogen Sulfide (H2S) PPM, rounded up	0	
Carbon Dioxide (C02) percentage, if greater than one percent	1	
Oxygen (02) percentage, if greater than one percent	0	
If you are venting and/or flaring because of Pipeline Specification, please provide the required spec	ifications for each das	
Methane (CH4) percentage quality requirement	Not answered.	
Nitrogen (N2) percentage quality requirement	Not answered.	
Hydrogen Sufide (H2S) PPM quality requirement	Not answered.	
Carbon Dioxide (C02) percentage quality requirement	Not answered.	
- ()		

Not answered.

Oxygen (02) percentage quality requirement

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116

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### State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe. NM 87505

QUESTIONS, Page 2

Action 407191

Santa	re, NIVI 6/505
QUESTI	ONS (continued)
Operator: OXY USA INC	OGRID: 16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	407191
	Action Type:  [C-129] Venting and/or Flaring (C-129)
QUESTIONS	
Date(s) and Time(s)	
Date vent or flare was discovered or commenced	11/12/2024
Time vent or flare was discovered or commenced	10:24 AM
Time vent or flare was terminated	05:26 PM
Cumulative hours during this event	7
Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Other   Other (Specify)   Natural Gas Flared   Released: 125 Mcf   Recovered: 0 Mcf   Lost: 125 Mcf.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Gas Flare Meter
Is this a gas only submission (i.e. only significant Mcf values reported)	Yes, according to supplied volumes this appears to be a "gas only" report.
Venting or Flaring Resulting from Downstream Activity	
Was this vent or flare a result of downstream activity	No
Was notification of downstream activity received by this operator	Not answered.
Downstream OGRID that should have notified this operator	Not answered.
Date notified of downstream activity requiring this vent or flare	Not answered.
Time notified of downstream activity requiring this vent or flare	Not answered.
Steps and Actions to Prevent Waste	
•	
For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control.	True
Please explain reason for why this event was beyond this operator's control	In this instance, this was a planned flare, as this event was a scheduled modification to the suction line for the VRUs servicing the production VRTs resulted in brief instances of overpressure at the facility, which triggered intermittent flaring events. This modification to the suction line for the VRU's was necessary to improve the efficiency of the VRU operations. Flow from the heaters was diverted to the oil production tanks while inlet piping was changed for the low pressure VRU unit #1 and low pressure VRU unit #2. OXY made every effort to control and minimize emissions as much as possible during this planned modification to VRU equipment. To mitigate the risks associated with overpressure of the facility during this process and to ensure the safety of our operations, we have had to resort to controlled and safety flaring. This process allows us to safely burn off the excess gas, thereby preventing potential hazards such as equipment damage, leaks, or even explosions. While flaring is not Oxy's preferred method of handling excess gas, it is a necessary step under these exceptional circumstances to maintain the integrity and safety of our operations. OXY made every effort to control and minimize emissions as much as possible.
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Steps taken to limit the duration and magnitude of vent or flare	flaring events. This modification to the suction line for the VRU's was necessary to improve the efficiency of the VRU operations. Flow from the heaters was diverted to the oil production tanks while inlet piping was changed for the low pressure VRU unit #1 and low pressure VRU unit #2. VRU mechanics were on-site to assist during this planned procedure and to ensure that the VRU's were restarted, and no issues occurred. While flaring is not Oxy's preferred method of handling excess gas, it is a necessary step under these exceptional circumstances to maintain the integrity and safety of our operations. OXY made every effort to control and minimize emissions as much as possible.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	In this instance, this was a planned flare, as this event was a scheduled modification to the suction line for the VRUs servicing the production VRTs resulted in brief instances of overpressure at the facility, which triggered intermittent flaring events. This modification to the suction line for the VRU's was necessary to improve the efficiency of the VRU operations. While flaring is not Oxy's preferred method of handling excess gas, it is a necessary step under these exceptional circumstances to maintain the integrity and safety of our operations. OXY made every effort to control and minimize emissions as much as possible.

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ACKNOWLEDGMENTS

Action 407191

### **ACKNOWLEDGMENTS**

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P.O. Box 4294	Action Number:
Houston, TX 772104294	407191
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

#### **ACKNOWLEDGMENTS**

V	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be <b>a complete</b> C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
V	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively.
V	I hereby certify the statements in this report are true and correct to the best of my knowledge and acknowledge that any false statement may be subject to civil and criminal penalties under the Oil and Gas Act.
V	I acknowledge that the acceptance of any C-129 forms by the OCD does not relieve this operator of liability should their operations have failed to adequately investigate, report, and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment.
V	I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations.

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CONDITIONS

Action 407191

#### **CONDITIONS**

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	407191
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

#### CONDITIONS

Created By	Condition	Condition Date
marialuna2	If the information provided in this report requires an amendment, submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	11/27/2024