

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	Properties	Tot	al	C9+
Calculated Molecular \	•	22.8		128.26
Compressibility Factor		0.995		
Relative Density Real		0.791	17	4.4283
GPA 2172 Calculation				
Calculated Gross BT	U per ft ³ @ 14.65 ps	sia & 60°F		
Real Gas Dry BTU		1340	.5	6974.4
Water Sat. Gas Base I	BTU	1317	.6	6852.4
Ideal, Gross HV - Dry	at 14.65 psia	1334	.7	6974.4
Ideal, Gross HV - Wet		1311	.4	6852.4
Comments: H2S Fie	ld Content 0 ppm			

FMP/LSE NM40659

Hydrocarbon Laboratory Manager

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

assurance, unless otherwise stated.

Quality Assurance:

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: Sand Dunes South Corridor CTB Flare Date: 09/12/2024

Duration of Event: 13 Hours MCF Flared: 268
Start Time: 12:00 AM End Time: 12:59 PM

Cause: Emergency Flare > Equipment Malfunctions > VRT & VRU unit # 4

Method of Flared Gas Measurement: Gas Flare Meter

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

This emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable breakdown of equipment or process that was beyond the owner/operator's control and did not stem from activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. Oxy engages in respectable and good facility operation practices while also maintaining its continuous facility equipment preventative maintenance program. In this case, the facility continued to have extreme difficulty operating in its normal manner due to VRT and VRU equipment issues, which caused OXY to intermittently flare several times within a 24-Hour period. There was an LIT failure, which in turn, caused the bypass valve to the tanks to open. The VRU setpoint configuration does not allow for multiple range conversions between VRT (psi) and tanks (oz). In addition, the low pressure VRU unit #4 had a faulty VFD board and is awaiting repairs, which was scheduled for September 12, 2024. Oxy is unable to predict, avoid or prevent types of equipment malfunctions from occurring, as they happen suddenly and without warning. This malfunctioning event is out of OXY's control. 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 an unforeseen and unavoidable emergency or malfunction, as the part of the overall process or steps to take to limit duration and magnitude of flaring. Oxy personnel are in the field 24/7 and can physically see when we are flaring which in turn are communicated to additional Oxy field personnel. Internal OXY procedures ensure that upon notice of flaring, malfunction gas compressor unit and/or multiple unit shutdown alarms, increased sensor line pressure alarms, etc., field production technician personnel are promptly notified, and are instructed to assess the issue as soon as possible to take prompt corrective action and minimize emissions. In this case, the facility continued to have extreme difficulty operating in its normal manner due to VRT and VRU equipment issues, which caused OXY to intermittently flare several times within a 24-Hour period. There was an LIT failure, which in turn, caused the bypass valve to the tanks to open. The VRU setpoint configuration does not allow for multiple range conversions between VRT (psi) and tanks (oz). In addition, the low pressure VRU unit #4 had a faulty VFD board and is awaiting repairs, which was scheduled for September 12, 2024. Automation team was able to calibrate the LIT on the VRT and replace the faulty VFD board. Oxy field personnel choked back wells to minimize emissions during this period. Equipment was returned to normal working order. OXY made every effort to control and minimize emissions as much as possible during this event.

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

Oxy is limited in the corrective actions to eliminate this type of cause and potential reoccurrence of flaring as, various forms of mechanical or technical equipment issues can be sudden, reasonably unforeseeable and unexpected which can cause malfunctions to occur without warning or advance notice. Oxy continually strives to maintain and operate all its facility locations equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events. Oxy has a strong and positive equipment preventative maintenance program in place. The only actions that Oxy can take and handle that is within its control, is to continue with its equipment preventative maintenance program for all its facilities and continually work with its field personnel to resolve those issues in a timely manner.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

DEFINITIONS

Action 386941

DEFINITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	386941
	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 386941

Phone:(505) 476-3470 Fax:(505) 476-3462		
Q	UESTIONS	
Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294		OGRID:
		[C-129] Venting and/or Flaring (C-129)
QUESTIONS		
Prerequisites		
Any messages presented in this section, will prevent submission of this application. Please resolve	these issues before continuing wi	ith the rest of the questions.
Incident Well	Unavailable.	
Incident Facility	[fAPP2127048458] Sand D	Dunes South Corridor CTB
Determination of Reporting Requirements		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers at Was this vent or flare caused by an emergency or malfunction	Yes	9.
Did this vent or flare last eight hours or more cumulatively within any 24-hour		
period from a single event	Yes	
Is this considered a submission for a vent or flare event	Yes, minor venting and/or	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 w	enting and/or flaring that is or ma	y be 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	
Did this vent or flare result in the release of ANY 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	
Equipment Involved		
Primary Equipment Involved	Other (Specify)	
Additional details for Equipment Involved. Please specify	Emergency Flare > Equipn	nent Malfunctions > VRT & VRU unit # 4
Democratative Compositional Analysis of Vented on Flored Natural Co.		
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		
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

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QUESTIONS, Page 2

Action 386941

QUESTIONS	(continued)	

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	386941
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)		
Date vent or flare was discovered or commenced	09/12/2024	
Time vent or flare was discovered or commenced	12:00 AM	
Time vent or flare was terminated	12:59 PM	
Cumulative hours during this event	13	

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: 268 Mcf Recovered: 0 Mcf Lost: 268 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	This emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable breakdown of equipment or process that was beyond the owner/operator's control and did not stem from activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. Oxy engages in respectable and good facility operation practices while also maintaining its continuous facility equipment preventative maintenance program. In this case, the facility continued to have extreme difficulty operating in its normal manner due to VRT and VRU equipment issues, which caused OXY to intermittently flare several times within a 24-Hour period. There was an LIT failure, which in turn, caused the bypass valve to the tanks to open. The VRU setpoint configuration does not allow for multiple range conversions between VRT (psi) and tanks (oz). In addition, the low pressure VRU unit #4 had a faulty VFD board and is awaiting repairs, which was scheduled for September 12, 2024. Oxy is unable to predict, avoid or prevent types of equipment malfunctions from occurring, as they happen suddenly and without warning. This malfunctioning event is out of OXY's control. OXY made every effort to control and minimize emissions as much as possible.
	It is OXY's policy to route its stranded gas to a flare during an unforeseen and unavoidable emergency or malfunction, as the part of the overall process or steps to take to limit duration and magnitude of flaring. Oxy personnel are in the field 24/7 and can physically see when we are flaring which in turn are communicated to additional Oxy field personnel. Internal OXY procedures ensure that upon notice of flaring, malfunction gas compressor unit and/or

Steps taken to limit the duration and magnitude of vent or flare	multiple unit shutdown alarms, increased sensor line pressure alarms, etc., field production technician personnel are promptly notified, and are instructed to assess the issue as soon as possible to take prompt corrective action and minimize emissions. In this case, the facility continued to have extreme difficulty operating in its normal manner due to VRT and VRU equipment issues, which caused OXY to intermittently flare several times within a 24-Hour period. There was an LIT failure, which in turn, caused the bypass valve to the tanks to open. The VRU setpoint configuration does not allow for multiple range conversions between VRT (psi) and tanks (oz). In addition, the low pressure VRU unit #4 had a faulty VFD board and is awaiting repairs, which was scheduled for September 12, 2024. Automation team was able to calibrate the LIT on the VRT and replace the faulty VFD board. Oxy field personnel choked back wells to minimize emissions during this period. Equipment was returned to normal working order. OXY made every effort to control and minimize emissions as much as possible during this event.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Oxy is limited in the corrective actions to eliminate this type of cause and potential reoccurrence of flaring as, various forms of mechanical or technical equipment issues can be sudden, reasonably unforeseeable and unexpected which can cause malfunctions to occur without warning or advance notice. Oxy continually strives to maintain and operate all its facility locations equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events. Oxy has a strong and positive equipment preventative maintenance program in place. The only actions that Oxy can take and handle that is within its control, is to continue with its equipment preventative maintenance program for all its facilities and continually work with its field personnel to resolve those issues in a timely manner.

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ACKNOWLEDGMENTS

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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 a complete 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 386941

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OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	386941
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By		Condition Date
shelbyschoepf	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.	9/25/2024