

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 (0.791	17	4.4283	
GPA 2172 Calculation	າ:				
Calculated Gross BTI	U per ft³ @ 14.65 ps	sia & 60°F			
Real Gas Dry BTU		1340		6974.4	
Water Sat. Gas Base E	-	1317		6852.4	
Ideal, Gross HV - Dry a	at 14.65 psia	1334		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 VENTING EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: Sand Dunes South Corridor CTB Vent Date: 06/25/2024

Duration of Event: 11 Hours 15 Minutes **MCF Vented:** 62 MCF

Start Time: 08:45 AM End Time: 08:00 PM

Cause: Venting > LP VRU #3 > O2 in Gas Sales System

Method of Vented Gas Measurement: Estimated Vent Calculations

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

In this case, it was determined that there were higher than tolerable limits of oxygen, where were being detected in the central gas sales system. This created a safety need to shut off emissions equipment in order to identify and mitigate the oxygen source, which was difficult to determine and ultimately was a result of a mechanical failure. This event could not have been prevented as it was not expected for venting to occur.

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

In this case, it was determined that there were higher than tolerable limits of oxygen, where were being detected in the central gas sales system. This created a safety need to shut off emissions equipment in order to identify and mitigate the oxygen source, which was difficult to initially determine and ultimately was a result of a mechanical failure. The steps taken to limit the duration and magnitude of venting during this event was to call for a mechanic to be dispatched to assist in locating the oxygen source. Once the mechanic arrived on-site, the plan of action was to initially shut off the vapor recovery equipment and stage them to brought back online at intervals associated with effective troubleshooting methods to determine oxygen sources. As equipment locations were eliminated as oxygen sources, varying equipment was left on and in normal operations to prevent additional fugitive emissions from occurring. Once the oxygen source was determined to be emitting from an unexpected malfunction from VRU unit # 3, repairs were done. Once repairs were complete, tanks were able to return to zero emissions tolerance pressures. This event could not have been prevented as it was not expected for venting to occur.

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

In this case, there are no actions to take to eliminate the cause and reoccurrence of venting as a result of a sudden and unexpected case of oxygen being in the sales systems as a result of a malfunctioning VRU.

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 363022

DEFINITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	363022
	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 363022

Phone:(505) 476-3470 Fax:(505) 476-3462		
	UESTIONS	
Operator: OXY USA INC		OGRID: 16696
P.O. Box 4294		Action Number:
Houston, TX 772104294		363022
		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	these issues before continuing wi	th 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 a	nd may provide addional quidance	
Was this vent or flare caused by an emergency or malfunction	Yes	
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 v	venting and/or flaring that is or may	v 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	y be a major of minor release ander 15.16.25.1 NWINE.
Did this vent or flare result in the release of ANY liquids (not fully and/or completely	. 55	
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	Venting > LP VRU #3 > O2	t in Gas Sales System
Representative Compositional Analysis of Vented or Flared Natural Gas		
Please provide the mole percent for the percentage questions in this group.	1	
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	cifications for each gas.	
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 363022

QUESTIONS ((continued))
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Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	363022
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	06/25/2024
Time vent or flare was discovered or commenced	08:45 AM
Time vent or flare was terminated	08:00 PM
Cumulative hours during this event	11

leasured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Other Other (Specify) Natural Gas Vented Released: 62 Mcf Recovered: 0 Mcf Lost: 62 Mcf.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Estimated Vent Calculations
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.

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 case, it was determined that there were higher than tolerable limits of oxygen, where were being detected in the central gas sales system. This created a safety need to shut off emissions equipment in order to identify and mitigate the oxygen source, which was difficult to determine and ultimately was a result of a mechanical failure. This event could not have been prevented as it was not expected for venting to occur.	
Steps taken to limit the duration and magnitude of vent or flare	In this case, it was determined that there were higher than tolerable limits of oxygen, where were being detected in the central gas sales system. This created a safety need to shut off emissions equipment in order to identify and mitigate the oxygen source, which was difficult to initially determine and ultimately was a result of a mechanical failure. The steps taken to limit the duration and magnitude of venting during this event was to call for a mechanic to be dispatched to assist in locating the oxygen source. Once the mechanic arrived on-site, the plan of action was to initially shut off the vapor recovery equipment and stage them to brought back online at intervals associated with effective troubleshooting methods to determine oxygen sources. As equipment locations were eliminated as oxygen sources, varying equipment was left on and in normal operations to prevent additional fugitive emissions from occurring. Once the oxygen source was determined to be emitting from an unexpected malfunction from VRU unit # 3, repairs were done. Once repairs were complete, tanks were able to return to zero emissions tolerance pressures. This event could not have been	

Steps and Actions to Prevent Waste

		prevented as it was not expected for venting to occur.
Corrective actions taken to eliminate the ca	use and reoccurrence of vent or flare	In this case, there are no actions to take to eliminate the cause and reoccurrence of venting as a result of a sudden and unexpected case of oxygen being in the sales systems as a result of a malfunctioning VRU.

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ACKNOWLEDGMENTS

Action 363022

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	Action Type:
	[C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

V	I acknowledge that I am authorized to submit a Venting and/or Flaring (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 363022

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	363022
	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.	7/10/2024