



## Certificate of Analysis

Number: 6030-23110129-001A

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

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

Nov. 14, 2023

Field:	PERMIAN_RESOURCES	Sampled By:	Raul Salazar
Station Name:	Falcon Ridge CPF Production #2	Sample Of:	Gas Spot
Station Number:	16840p	Sample Date:	11/13/2023 08:48
Station Location:	OP-L3821-BT001	Sample Conditions:	109 psig, @ 93.8 °F Ambient: 51 °F
Sample Point:	Meter run	Effective Date:	11/13/2023 08:48
Formation:	NEW_MEXICO	Method:	GPA-2261M
County:	Lea, NM	Cylinder No:	4030-004290
Well Name:		Instrument:	70104251 (Inficon GC-MicroFusion)
Type of Sample:	Spot-Cylinder	Last Inst. Cal.:	11/06/2023 0:00 AM
Heat Trace Used:	N/A	Analyzed:	11/14/2023 08:47:52 by EBH
Sampling Method:	Fill and Purge	Flow Rate mcf/d:	
Sampling Company:	:SPL - OXY		

## Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia
Hydrogen Sulfide	0.0000	0.0010	0.0015	
Nitrogen	1.4421	1.4865	1.8527	
Carbon Dioxide	0.3635	0.3747	0.7337	
Methane	71.8252	74.0368	52.8427	
Ethane	12.0641	12.4356	16.6361	3.321
Propane	6.7642	6.9725	13.6788	1.918
Iso-Butane	0.7457	0.7687	1.9878	0.251
n-Butane	1.9680	2.0286	5.2457	0.639
Iso-Pentane	0.5003	0.5157	1.6554	0.188
n-Pentane	0.5069	0.5225	1.6772	0.189
Hexanes	0.3635	0.3747	1.4366	0.154
Heptanes	0.3195	0.3293	1.4680	0.152
Octanes	0.1422	0.1466	0.7450	0.075
Nonanes Plus	0.0066	0.0068	0.0388	0.004
	97.0118	100.0000	100.0000	6.891

<b>Calculated Physical Properties</b>	<b>Total</b>	<b>C9+</b>
Calculated Molecular Weight	22.48	128.26
Compressibility Factor	0.9959	
Relative Density Real Gas	0.7790	4.4283
<b>GPA 2172 Calculation:</b>		
<b>Calculated Gross BTU per ft<sup>3</sup> @ 14.65 psia &amp; 60°F</b>		
Real Gas Dry BTU	1322.9	6974.4
Water Sat. Gas Base BTU	1300.3	6852.4
Ideal, Gross HV - Dry at 14.65 psia	1317.5	6974.4
Ideal, Gross HV - Wet	1294.4	6852.4

**Comments:** H2S Field Content 10 ppm

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:** Falcon Ridge Tankless CPF

**Flare Date:** 12/29/2023

**Duration of Event:** 3 Hours 20 Minutes

**MCF Flared:** 270

**Start Time:** 04:10 PM

**End Time:** 07:30 PM

**Cause:** Emergency Flare > Purging of O2 in New Wells & Equipment

**Method of Flared Gas Measurement:** Gas Flare Meter

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

In this case, flaring occurred due to the purging of O2 in new wells which were being brought online to the facility and ensuring safety protocols and processes were followed while this work was being performed. Purging of O2 of the new equipment and wells is necessary so that O2 is not introduced into the gas system. Numerous Oxy field personnel were on-site to ensure all safety protocols were followed.

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

In this case, flaring occurred due to the purging of O2 in new wells which were being brought online to the facility and ensuring safety protocols and processes were followed while this work was being performed. Purging of O2 of the new equipment and wells is necessary so that O2 is not introduced into the gas system. Numerous Oxy field personnel were on-site to ensure all safety protocols were followed.

**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 it is necessary to purge O2 from wells and new equipment. Purging of O2 of the new equipment and wells is necessary so that O2 is not introduced into the gas system. Numerous Oxy field personnel were on-site to ensure all safety protocols were followed.

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**District III**  
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**District IV**  
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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**

DEFINITIONS

Action 328584

**DEFINITIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 328584
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

**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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QUESTIONS

Action 328584

**QUESTIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 328584
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

**QUESTIONS**

<b>Prerequisites</b>	
<i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i>	
Incident ID (n#)	Unavailable.
Incident Name	Unavailable.
Incident Type	Flare
Incident Status	Unavailable.
Incident Facility	[fAPP2331575145] Falcon Ridge Tankless CPF
<i>Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section) that are assigned to your current operator can be amended with this C-129A application.</i>	

<b>Determination of Reporting Requirements</b>	
<i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
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	No
Is this considered a submission for a vent or flare event	Yes, minor venting and/or flaring of natural gas.
<i>An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during venting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.</i>	
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 within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

<b>Equipment Involved</b>	
Primary Equipment Involved	Other (Specify)
Additional details for Equipment Involved. Please specify	Emergency Flare > Purging of O2 in New Wells & Equipment

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b>	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	74
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	10
Carbon Dioxide (CO2) percentage, if greater than one percent	0
Oxygen (O2) percentage, if greater than one percent	0
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
Methane (CH4) percentage quality requirement	0
Nitrogen (N2) percentage quality requirement	0
Hydrogen Sulfide (H2S) PPM quality requirement	0
Carbon Dioxide (CO2) percentage quality requirement	0
Oxygen (O2) percentage quality requirement	0



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**QUESTIONS (continued)**

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	Action Number: 328584
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	12/29/2023
Time vent or flare was discovered or commenced	04:10 PM
Time vent or flare was terminated	07:30 PM
Cumulative hours during this event	3

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: 270 MCF   Recovered: 0 MCF   Lost: 270 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	No
Downstream OGRID that should have notified this operator	0
Date notified of downstream activity requiring this vent or flare	
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 case, flaring occurred due to the purging of O2 in new wells which were being brought online to the facility and ensuring safety protocols and processes were followed while this work was being performed. Purging of O2 of the new equipment and wells is necessary so that O2 is not introduced into the gas system. Numerous Oxy field personnel were on-site to ensure all safety protocols were followed.
Steps taken to limit the duration and magnitude of vent or flare	In this case, flaring occurred due to the purging of O2 in new wells which were being brought online to the facility and ensuring safety protocols and processes were followed while this work was being performed. Purging of O2 of the new equipment and wells is necessary so that O2 is not introduced into the gas system. Numerous Oxy field personnel were on-site to ensure all safety protocols were followed.
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 it is necessary to purge O2 from wells and new equipment. Purging of O2 of the new equipment and wells is necessary so that O2 is not introduced into the gas system. Numerous Oxy field personnel were on-site to ensure all safety protocols were followed.



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ACKNOWLEDGMENTS

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**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	I acknowledge that with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.28 NMAC.
<input checked="" type="checkbox"/>	I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record.
<input checked="" type="checkbox"/>	I hereby certify the statements in this amending 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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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 328584

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

**CONDITIONS**

Created By	Condition	Condition Date
shelbyschoepf	If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	4/1/2024