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

Calculated Physical Properties	Total	C9+
Calculated Molecular Weight	22.48	128.26
Compressibility Factor	0.9959	
Relative Density Real Gas	0.7790	4.4283
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.65 psia & 60°F		
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: 12/12/2023

Duration of Event: 2 Hours 5 Minutes

MCF Flared: 279

Start Time: 10:00 AM

End Time: 12:05 PM

Cause: Emergency Flare > Manual Control Valve > Gas Lift Wells

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, Oxy production techs were working on adjusting flow control and pressure to our gas lift wells by manually manipulating a control valve to our sales line. The process of limiting the gas flow to the sale meter causes increased discharge pressure leaving the compressors for more efficient pressure to the wells. Unfortunately, increasing the discharge pressure inadvertently caused the facility to increase its operating pressure because of the USAC compressors programmed operating slowdown of the compressors as higher discharge pressure limits are reached. This programmed operating slowdown caused the gas to back up, which in turn, increased pressure to flare point. OXY made every effort to control and minimize emissions as much as possible to protect equipment, environment, and personnel. Event duration and volume is a combined total within a 24-Hour period.

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. Oxy production technicians must assess whether the issue or circumstance is due to damage and repair is needed, or whether there are other reasons for its cause. In this case, Oxy production techs were working on adjusting flow control and pressure to our gas lift wells by manually manipulating a control valve to our sales line. The process of limiting the gas flow to the sale meter causes increased discharge pressure leaving the compressors for more efficient pressure to the wells. Unfortunately, increasing the discharge pressure inadvertently caused the facility to increase its operating pressure because of the USAC compressors programmed operating slowdown of the compressors as higher operational discharge pressure limits are reached. The operational discharge pressure limits on the compressors were not what the production tech expected, as the limits were under the threshold typically set for this specific target for operation and the production tech does not have access to visibly see the discharge pressure limits set for the compressors. While waiting for USA Compression to send out a mechanic, who would change the operational setpoint pressure limits on the compressors, Oxy production techs continued working on adjusting

the flow control valve to send more gas to sales and less gas to flare. 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 In this case, Oxy production techs were working on adjusting flow control and pressure to our gas lift wells by manually manipulating a control valve to our sales line. The process of limiting the gas flow to the sale meter causes increased discharge pressure leaving the compressors for more efficient pressure to the wells. Unfortunately, increasing the discharge pressure inadvertently caused the facility to increase its operating pressure because of the USAC compressors programmed operating slowdown of the compressors as higher operational discharge pressure limits are reached. The operational discharge pressure limits on the compressors were not what the production tech expected, as the limits were under the threshold typically set for this specific target for operation and the production tech does not have access to visibly see the discharge pressure limits set for the compressors. 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 compression 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 compression equipment preventative maintenance program for all its facilities and continually work with its compression rental owners to ensure operational setpoint pressure limits on the compression equipment is where it should be.

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District IV
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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

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 297993
	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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QUESTIONS

Action 297993

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 297993
	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 with the rest of the questions.	
Incident Well	*Unavailable.*
Incident Facility	**[fAPP2331575145] Falcon Ridge Tankless CPF**

Determination of Reporting Requirements	
Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide addional guidance.	
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.**
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.	
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 > Manual Control Valve > Gas Lift Wells

Representative Compositional Analysis of Vented or Flared Natural Gas	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	74
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	10
Carbon Dioxide (C02) percentage, if greater than one percent	0
Oxygen (02) percentage, if greater than one percent	0
If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications 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.*
Oxygen (02) percentage quality requirement	*Not answered.*

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QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 297993
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	12/12/2023
Time vent or flare was discovered or commenced	10:00 AM
Time vent or flare was terminated	12:05 PM
Cumulative hours during this event	2

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: 279 Mcf | Recovered: 0 Mcf | Lost: 279 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 case, Oxy production techs were working on adjusting flow control and pressure to our gas lift wells by manually manipulating a control valve to our sales line. The process of limiting the gas flow to the sale meter causes increased discharge pressure leaving the compressors for more efficient pressure to the wells. Unfortunately, increasing the discharge pressure inadvertently caused the facility to increase its operating pressure because of the USAC compressors programmed operating slowdown of the compressors as higher discharge pressure limits are reached. This programmed operating slowdown caused the gas to back up, which in turn, increased pressure to flare point. OXY made every effort to control and minimize emissions as much as possible to protect equipment, environment, and personnel. Event duration and volume is a combined total within a 24-Hour period.
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Steps taken to limit the duration and magnitude of vent or flare	were working on adjusting flow control and pressure to our gas lift wells by manually manipulating a control valve to our sales line. The process of limiting the gas flow to the sale meter causes increased discharge pressure leaving the compressors for more efficient pressure to the wells. Unfortunately, increasing the discharge pressure inadvertently caused the facility to increase its operating pressure because of the USAC compressors programmed operating slowdown of the compressors as higher operational discharge pressure limits are reached. The operational discharge pressure limits on the compressors were not what the production tech expected, as the limits were under the threshold typically set for this specific target for operation and the production tech does not have access to visibly see the discharge pressure limits set for the compressors. While waiting for USA Compression to send out a mechanic, who would change the operational setpoint pressure limits on the compressors,
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ACKNOWLEDGMENTS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 297993
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☑	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.
☑	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.
☑	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.
☑	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.
☑	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 297993

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 297993
	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.	12/27/2023