

Field:

Station Name:

Certificate of Analysis

Number: 6030-23110129-001A

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

Nov. 14, 2023

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

PERMIAN_RESOURCES Sampled By: Raul Salazar 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 runEffective Date:11/13/2023 08:48Formation:NEW_MEXICOMethod:GPA-2261MCounty:Lea, NMCylinder 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		Tot	al	C9+
Calculated Molecular \		22.4	-	128.26
Compressibility Factor		0.995	-	
Relative Density Real Gas		0.779	90	4.4283
GPA 2172 Calculation:				
Calculated Gross BT	U per ft ³ @ 14.65 ps	sia & 60°F		
Real Gas Dry BTU		1322	.9	6974.4
Water Sat. Gas Base I		1300	.3	6852.4
Ideal, Gross HV - Dry		1317	.5	6974.4
Ideal, Gross HV - Wet	Ideal, Gross HV - Wet		.4	6852.4

Comments: H2S Field Content 10 ppm

Boll Brille

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: 11/15/2023

Duration of Event: 12 Hours **MCF Flared:** 420

Start Time: 12:00 AM End Time: 12:00 PM

Cause: Emergency Flare > Equipment Malfunctions > VRT > VRU Suction Line

Method of Flared Gas Measurement: Gas Flare Meter

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

The emissions were caused by the sudden, 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 maintenance practices. Internal Oxy procedures ensure that upon a sudden and unexpected flaring event, production techs 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 VRT's water hi leveled due to a malfunction with the production separator water control valves, which in turn filled VRU # 7's suction line with fluid. A minimal amount of gas from the facility's VRT was sent to the flare out of necessity to protect personnel and equipment as a safeguard until the sudden and unexpected malfunction of VRU # 7 could be resolved, and the unit returned to normal maximized operation.

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

It is OXY's policy to route all stranded gas to a flare during 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. The flare at this facility has a 98% combustion efficiency to lessen emissions as much as possible. In this case, the VRT's water hi leveled due to a malfunction with the production separator water control valves, which in turn filled VRU # 7's suction line with fluid. Oxy production techs, already on-site, were unable to clear the malfunction and quickly requested a vacuum truck be dispatched to come out and drain the suction line on VRU unit #7. A third-party vendor dispatched a vacuum truck, which arrived in the later hours of the morning, was able to clear the suction line on VRU #7 and once cleared, the VRU's alarm panel was reset, and the unit was restarted. A minimal amount of gas from the facility's VRT was sent to the flare out of necessity to protect personnel and equipment as a safeguard until VRU #7 could be restarted and returned to normal maximized operation. In addition, several wells flowing to the facility were choked back to reduce field pressure to minimize flaring.

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

Oxy is limited in its corrective actions to eliminate the cause and potential reoccurrence of a malfunctioning VRU, as notwithstanding proper VRU, design and operation, whether low- or high-pressure, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable, and unexpected which can cause equipment

malfunctions to occur without warning or advance notice. OXY makes every effort to control and minimize emissions as much as possible during these circumstances. The limited actions that Oxy can do in this circumstance is to resolve the issue on-site, immediately call for a VRU mechanic or other necessary equipment operators to be dispatched, submit a work order for repair, and/or work with its equipment maintenance team to have the issue resolved in a timely manner and continue monitoring the equipment until its repair and restoration to normal operations is complete.

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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 289980

DEFINITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	289980
	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 289980

QUESTIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	289980
	Action Type:
	[C-129] Amend Venting and/or Flaring (C-129A)

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 Operator [16696] OXY USA INC		
Incident Type	Flare	
Incident Status	Closure Approved	
Incident Well	Unavailable.	
Incident Facility	[fAPP2331575145] Falcon Ridge Tankless CPF	
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.		

<u></u>			
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	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 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 > Third Party > USA Compression > Red Tank Boo 26 CS > Equipment Issues	

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	0		
Nitrogen (N2) percentage quality requirement	0		
Hydrogen Sufide (H2S) PPM quality requirement	0		
Carbon Dioxide (C02) percentage quality requirement	0		
Oxygen (02) percentage quality requirement	0		

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QUESTIONS, Page 2

Action 289980

QUESTIONS (continued)	
	OGRID:

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OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	289980
	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	11/15/2023	
Time vent or flare was discovered or commenced	12:00 AM	
Time vent or flare was terminated	12:00 PM	
Cumulative hours during this event	12	

Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Other Other (Specify) Natural Gas Flared Released: 420 Mcf Recovered: 0 Mcf Lost: 420 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	The emissions were caused by the sudden, 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 maintenance practices. Internal Oxy procedures ensure that upon a sudden and unexpected flaring event, production techs 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 VRT's water hi leveled due to a malfunction with the production separator water control valves, which in turn filled VRU # 7's suction line with fluid. A minimal amount of gas from the facility's VRT was sent to the flare out of necessity to protect personnel and equipment as a safeguard until the sudden and unexpected malfunction of VRU # 7 could be resolved, and the unit returned to normal maximized operation.
Steps taken to limit the duration and magnitude of vent or flare	It is OXY's policy to route all stranded gas to a flare during 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. The flare at this facility has a 98% combustion efficiency to lessen emissions as much as possible. In this case, the VRT's water hi leveled due to a malfunction with the production separator water control valves, which in turn filled VRU # 7's suction line with fluid. Oxy production techs, already on-site, were unable to clear the malfunction and quickly requested a vacuum truck be dispatched to come out and drain the suction line on VRU unit #7. A third-party vendor dispatched a vacuum truck, which arrived in the later hours

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ACKNOWLEDGMENTS

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ACKNOWLEDGMENTS

V	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.
V	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.
✓	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.
✓	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 289980

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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.	11/30/2023