

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

Sampled By: Field: PERMIAN RESOURCES 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 11/13/2023 08:48 Sample Point: Meter run Effective Date: NEW_MEXICO GPA-2261M Formation: Method:

County: Lea, NM Cylinder No: 4030-004290 Well Name: Instrument: 70104251 (Inficon GC-MicroFusion)

Type of Sample: : Spot-Cylinder 11/06/2023 0:00 AM Last Inst. Cal.:

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	Tot	al	C9+	
Calculated Molecular	Weight	22.4	18	128.26	
Compressibility Factor		0.995	59		
Relative Density Real	Gas	0.779	90	4.4283	
GPA 2172 Calculatio	GPA 2172 Calculation:				
Calculated Gross BTU per ft ³ @ 14.65 psia & 60					
Real Gas Dry BTU		1322	.9	6974.4	
Water Sat. Gas Base		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 Fie	eld Content 10 ppm				

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: Falcon Ridge Tankless CPF Flare Date: 11/28/2023

Duration of Event: 2 hours 50 minutes **MCF Flared:** 170

Start Time: 12:00 AM End Time: 2:50 AM

Cause: Emergency Flare > Equipment Malfunctions > VRU > VFD Fault

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, gas had to be flared rather than be compressed when HP VRU # 1 & #2 suddenly and unexpectedly shut down on an ethermal VFD fault. Gas from the facility's oil and water VRTs was sent to the flare out of necessity to protect personnel and equipment as a safeguard until the VRU's could be restarted and returned to normal maximized operation. This event was out of Oxy's control to prevent.

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, sales gas had to be flared rather than be compressed when HP VRU # 1 & #2 suddenly and unexpectedly shut down on an e-thermal VFD fault alarm. Oxy production techs arrived to the facility in a timely manner and proceeded to inspect the VRU's, attempted to clear the malfunctions and restart the VRU's. After several attempts to restart the VRU's with no success, Oxy production techs contacted Oxy Automation support on-site to resolve the VRU's issues, the equipment was restarted and flaring ceased shortly after.

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 immediately call for a VRU mechanic, submit a work order for repair, and/or work with its equipment maintenance team and automation to have the issue resolved in a timely manner and continue monitoring the equipment until its repair and restoration to normal operations is complete.

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 294430

DEFINITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	294430
	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 294430

Phone:(505) 476-3470 Fax:(505) 476-3462		
C	QUESTIONS	
Operator:	COLOTIONO	OGRID:
OXY USA INC		16696
P.O. Box 4294 Houston, TX 772104294		Action Number: 294430
Tiodoloii, TX T12101201		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 w	vith the rest of the questions.
Incident Well	Unavailable.	
Incident Facility	[fAPP2331575145] Falcoi	n Ridge Tankless CPF
Determination of Reporting Requirements		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers a		е.
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/o	r 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 ma	ay 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 > Equip	ment Malfunctions > VRU > VFD Fault
Description Comments of Assets of Street Assets of Comments of Com		
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 spe	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.	
Oxygen (02) percentage quality requirement	Not answered.	

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Time vent or flare was terminated

Cumulative hours during this event

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QUESTIONS, Page 2

Action 294430

QUESTIC	ONS (continued)
Operator: OXY USA INC	OGRID: 16696
P.O. Box 4294 Houston, TX 772104294	Action Number: 294430
	Action Type: [C-129] Venting and/or Flaring (C-129)
QUESTIONS	
Date(s) and Time(s)	
Date vent or flare was discovered or commenced	11/28/2023
Time vent or flare was discovered or commenced	12:00 AM

02:50 AM

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: 170 Mcf Recovered: 0 Mcf Lost: 170 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	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, gas had to be flared rather than be compressed when HP VRU # 1 & #2 suddenly and unexpectedly shut down on an ethermal VFD fault. Gas from the facility's oil and water VRTs was sent to the flare out of necessity to protect personnel and equipment as a safeguard until the VRU's could be restarted and returned to normal maximized operation. This event was out of Oxy's control to prevent.	
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, sales gas had to be flared rather than be compressed when HP VRU # 1 & #2 suddenly and unexpectedly shut down on an e-thermal VFD fault alarm. Oxy production techs arrived to the facility in a timely manner and proceeded to inspect the VRU's, attempted to clear the malfunctions and restart the VRU's. After several attempts to restart the VRU's with no success, Oxy production techs contacted Oxy	

	Automation support on-site to resolve the VRU's issues, the equipment was restarted and flaring ceased shortly after.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	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 immediately call for a VRU mechanic, submit a work order for repair, and/or work with its equipment maintenance team and automation 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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ACKNOWLEDGMENTS

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ACKNOWLEDGMENTS

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OXY USA INC	16696
P.O. Box 4294	Action Number:
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	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.
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.
~	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

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CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	294430
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	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.	12/13/2023