

Certificate of Analysis

Number: 6030-24010190-001A

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

Jan. 18, 2024

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

PERMIAN RESOURCES Sampled By: Roberto Andrade Station Name: Falcon Ridge CGL Check Sample Of: Gas Spot 01/16/2024 01:45

Station Number: 16920C Sample Date: Station Location: OP-L3821-CS001 Sample Conditions: 1212.9 psig, @ 93.1 °F Ambient: 25 °F

Sample Point: Meter

Field:

Effective Date: 01/16/2024 01:45 NEW_MEXICO Formation: Flow Rate: 9433.446 MSCFD County: Lea Method: GPA-2261M Well Name: CDP Cylinder No: 1111-007142

Type of Sample: : Spot-Cylinder Instrument: 70104251 (Inficon GC-MicroFusion)

Heat Trace Used: N/A Last Inst. Cal.: 01/15/2024 0:00 AM

Sampling Method: : Fill and Purge Analyzed: 01/17/2024 12:26:56 by EBH

Sampling Company: : SPL

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia
Hydrogen Sulfide	0.0000	0.0000	0.0000	
Nitrogen	1.2630	1.2839	1.5206	
Carbon Dioxide	1.0472	1.0645	1.9807	
Methane	68.8088	69.9451	47.4405	
Ethane	12.6002	12.8083	16.2829	3.422
Propane	8.8294	8.9752	16.7325	2.470
Iso-Butane	1.2093	1.2293	3.0208	0.402
n-Butane	2.8878	2.9355	7.2135	0.924
Iso-Pentane	0.6543	0.6651	2.0288	0.243
n-Pentane	0.5769	0.5864	1.7887	0.212
Hexanes	0.2932	0.2980	1.0857	0.122
Heptanes	0.1717	0.1745	0.7393	0.080
Octanes	0.0323	0.0328	0.1584	0.017
Nonanes Plus	0.0014	0.0014	0.0076	0.001
	98.3755	100.0000	100.0000	7.893
Calculated Physical F	Properties	Tot	al	C9+
Calculated Molecular V	Veight	23.6	65	128.26
Compressibility Factor		0.995		
Relative Density Real (0.820	01	4.4283
GPA 2172 Calculation				
Calculated Gross BTI	U per ft³ @ 14.65 ps	sia & 60°F		
Real Gas Dry BTU		1372	.7	6974.4
Water Sat. Gas Base E	3TU	1349	.3	6852.4
Ideal, Gross HV - Dry a	at 14.65 psia	1366	.4	6974.4
Ideal, Gross HV - Wet		1342	.5	6852.4

FMP/LSE N/A, WO#4001595465

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 CGL Flare Date: 01/14/2025

Duration of Event: 4 Hours 11 Minutes **MCF Flared:** 202

Start Time: 01:41 AM End Time: 05:52 AM

Cause: Emergency Flare > Extreme Freezing Weather Conditions > Multiple Compression Equipment Issues

Method of Flared Gas Measurement: Gas Flare Meter

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

This emissions event was caused by the unforeseen, unexpected, sudden, and 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 preventative maintenance practices. Oxy engages in respectable and good facility operation practices while also maintaining its continuous facility equipment preventative maintenance program. In this case, the Falcon Ridge CGL compressor station went down around approximately 1:40 AM due to a sudden and unexpected loss of fuel skids, which had frozen, due to extreme freezing weather conditions, which in turn, caused a loss of fuel supply to the compressors. As a result of the loss of the fuels skids, all compression equipment shutdown. Shortly after, at approximately 2:37 AM, and again around 3:56 AM, the compression equipment malfunctioned and shut down due to repeated fuel supply freezes. This event is out of OXY's control yet OXY made every effort to control and minimize emissions as much as possible. This flaring event's duration and volume result from several brief intermittent flares over 24 hours.

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, 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 Falcon Ridge CGL compressor station went down around approximately 1:40 AM due to a sudden and unexpected loss of fuel skids, which had frozen, due to extreme freezing weather conditions, which in turn, caused a loss of fuel supply to the compressors. As a result of the loss of the fuels skids, all compression equipment shutdown. Shortly after, at approximately 2:37 AM, and again around 3:56 AM, the compression equipment malfunctioned and shut down due to repeated fuel supply freezes. To address potential freezing issues affecting the equipment, on-site field personnel set the levers on the compressors to closed positions in advance to isolate heat on gas discharge lines. Furthermore, on-site field personnel consistently drained the instrument air lines to maintain maximum pressure levels for efficient operation of the lube pumps. They also covered the fuel skids with tarps to ensure optimal warmth. Moreover, Train #1 was equipped with a heat trailer on the fuel skid to assist in potentially preventing freezing issues. As soon as flaring occurred in each instance, on-site field personnel immediately blew down the compressors to suction header until they would equalize with the header and then blew down the remaining minimal pressures to the flare. Notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. Compressor engines are designed to operate in a precise manner and when malfunctions occur, it disrupts the compression unit's operating manner and robs the compression engine of power, thus, causing an automatic shutdown of the unit. This event is out of OXY's control yet OXY made every effort to control and minimize emissions as much as possible.

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

Oxy is limited in the corrective actions available to them to eliminate the cause and potential reoccurrence of compressor malfunctions as notwithstanding compressor engine design and operation, compressors are inherently dynamic and even the smallest alarms, false or true, can be sudden, reasonably unforeseeable and unexpected which can cause compression malfunctions to occur, thereby, triggering the unit's sensors to automatically shut down the unit to avoid catastrophic damage to the internal engine components. Oxy continually strives to maintain and operate all its equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events. During extreme freezing weather conditions, field personnel install methanol injections before the fuel skids to keep them from freezing while also monitoring gas compression temperatures and flow rates to the fuel skids. Oxy also has a strong and positive equipment preventative maintenance program in place.

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

DEFINITIONS

Action 475312

DEFINITIONS

ı	Operator:	OGRID:
ı	OXY USA INC	16696
ı	P.O. Box 4294	Action Number:
ı	Houston, TX 772104294	475312
ı		Action Type:
ı		[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 475312

Q	UESTIONS	
Operator:	(OGRID:
OXY USA INC P.O. Box 4294	 	16696 Action Number:
Houston, TX 772104294		475312
	,	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 continu	ing with the rest of the questions.
Incident ID (n#)	Unavailable.	
Incident Name	Unavailable.	
Incident Type	Flare	
Incident Status	Unavailable.	
Incident Facility	[fAPP2333082512] Fa	lcon Ridge CGL CS
Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section	on) that are assigned to you	r current operator can be amended with this C-129A application.
Determination of Reporting Requirements		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers a	nd may provide addional qui	dance
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 ar	nd/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 o	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 > E: Equipment Issues	xtreme Freezing Weather Conditions > Multiple Compression
Representative Compositional Analysis of Vented or Flared Natural Gas		
Please provide the mole percent for the percentage questions in this group.		
Methane (CH4) percentage	70	
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	0	
Nitrogen (N2) percentage quality requirement	0	
Hydrogen Sufide (H2S) PPM quality requirement	0	
Carbon Dioxide (C02) percentage quality requirement	0	

0

Oxygen (02) percentage quality requirement

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QUESTIONS, Page 2

Action 475312

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QUESTI	ONS (continued)	
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Houston, TX 772104294		475312
		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	01/14/2025	
Time vent or flare was discovered or commenced	01:41 AM	
Time vent or flare was terminated	05:52 AM	
Cumulative hours during this event	4	
	<u> </u>	
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 Lost: 202 MCF.	er (Specify) Natural Gas Flared Released: 202 MCF Recovered: 0 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 s	supplied volumes this appears to be a "gas only" report.
Venting or Flaring Resulting from Downstream Activity		
	T	
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	
Time notined of downstream activity requiring this vent of hare	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	breakdown of equip not stem from activi avoided by good de respectable and go equipment preventa compressor station unexpected loss of which in turn, cause fuels skids, all comp and again around 3 repeated fuel supply control and minimiz	ent was caused by the unforeseen, unexpected, sudden, and unavoidable of the process that was beyond the owner/operator's control and did ity that could have been foreseen and avoided, and could not have been esign, operation, and preventative maintenance practices. Oxy engages in roof facility operation practices while also maintaining its continuous facility ative maintenance program. In this case, the Falcon Ridge CGL went down around approximately 1:40 AM due to a sudden and fuel skids, which had frozen, due to extreme freezing weather conditions, and a loss of fuel supply to the compressors. As a result of the loss of the pression equipment shutdown. Shortly after, at approximately 2:37 AM, 8:56 AM, the compression equipment malfunctioned and shut down due to a freezes. This event is out of OXY's control yet OXY made every effort to ze emissions as much as possible. This flaring event's duration and several brief intermittent flares over 24 hours.

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Steps taken to limit the duration and magnitude of vent or flare	freezing issues affecting the equipment, on-site field personnel set the levers on the compressors to closed positions in advance to isolate heat on gas discharge lines. Furthermore, on-site field personnel consistently drained the instrument air lines to maintain maximum pressure levels for efficient operation of the lube pumps. They also covered the fuel skids with tarps to ensure optimal warmth. Moreover, Train #1 was equipped with a heat trailer on the fuel skid to assist in potentially preventing freezing issues. As soon as flaring occurred in each instance, on-site field personnel immediately blew down the compressors to suction header until they would equalize with the header and then blew down the remaining minimal pressures to the flare. Notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. Compressor engines are designed to operate in a precise manner and when malfunctions occur, it disrupts the compression unit's operating manner and robs the compression engine of power, thus, causing an automatic shutdown of the unit. This event is out of OXY's control yet OXY made every effort to control and minimize emissions as much as possible.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Oxy is limited in the corrective actions available to them to eliminate the cause and potential reoccurrence of compressor malfunctions as notwithstanding compressor engine design and operation, compressors are inherently dynamic and even the smallest alarms, false or true, can be sudden, reasonably unforeseeable and unexpected which can cause compression malfunctions to occur, thereby, triggering the unit's sensors to automatically shut down the unit to avoid catastrophic damage to the internal engine components. Oxy continually strives to maintain and operate all its equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events. During extreme freezing weather conditions, field personnel install methanol injections before the fuel skids to keep them from freezing while also monitoring gas compression temperatures and flow rates to the fuel skids. Oxy also has a strong and positive equipment preventative maintenance program in place.

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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.
~	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.
<u>~</u>	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 475312

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Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	475312
	Action Type:
	[C-129] Amend Venting and/or Flaring (C-129A)

CONDITIONS

Created By		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.	6/16/2025