

Certificate of Analysis

Number: 6030-24010190-001A

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

Chandler Montgomery Occidental Petroleum 1502 W Commerce Dr. Carlsbad, NM 88220 Jan. 18, 2024

Field: PERMIAN_RESOURCES Sampled By: Roberto Andrade
Station Name: Falcon Ridge CGL Check Sample Of: Gas Spot
Station Number: 16920C Sample Date: 01/16/2024 01:45

Station Number: 16920C Sample Date: 01/16/2024 01:45
Station Location: OP-L3821-CS001 Sample Conditions: 1212.9 psig, @ 93.1 °F Ambient: 25 °F

Sample Point: Meter Effective Date: 01/16/2024 01:45
Formation: NEW_MEXICO Flow Rate: 9433.446 MSCFD

County: Method: GPA-3261M

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 Gas		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

Comments: H2S Field Content 0 ppm

FMP/LSE N/A, WO#4001595465

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 CGL Flare Date: 02/13/2025

Duration of Event: 1 Hour 45 Minutes **MCF Flared:** 133

Start Time: 03:30 AM End Time: 05:15 AM

Cause: Emergency Flare > Extreme 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, several compressors malfunctioned and shutdown within a 24-hour period, due to extreme weather conditions affecting the compression equipment, which in turn triggered multiple brief intermittent flaring instances to occur. The compression equipment was severely affected by the extreme cold weather conditions, which prevented the lube oil from being pumped into the compressors, causing them to run dry. Consequently, they automatically shut down due to lube no flow alarms. The facility was winterized in anticipation of extreme freezing weather conditions. 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 detonation occurs, it disrupts the operating manner and robs the compression engine of power, thus, causing an automatic shutdown of the unit. Event duration and volume is a combined total of all intermittent flaring occurrences which occurred and documented. This event is out of OXY's control yet OXY made every effort to control and minimize emissions as much as possible.

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, several compressors malfunctioned and shutdown within a 24-hour period, due to extreme weather conditions affecting the compression equipment, which in turn triggered multiple brief intermittent flaring instances to occur. The compression equipment was severely affected by the extreme cold weather conditions, which prevented the lube oil from being pumped into the compressors, causing them to run dry. Consequently, they automatically shut down due to lube no flow alarms. The facility was winterized in anticipation of extreme freezing weather conditions by on-site field personnel setting the levers on the compressors to closed positions in advance to isolate heat on gas discharge lines and by applying heat trace and insulation to the oil 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. Oxy 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 453419

DEFINITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	453419
	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 453419

٥	UESTIONS		
Operator:	OGRID:		
OXY USA INC	16696		
P.O. Box 4294 Houston, TX 772104294	Action Number: 453419		
Hoddon, TX TT 2104204	Action Type:		
CULTATIONIO	[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 ID (n#)	Unavailable.		
Incident Name	Unavailable.		
Incident Type	Flare		
Incident Status	Unavailable.		
Incident Facility	[fAPP2333082512] Falcon Ridge CGL CS		
Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section	on) that are assigned to your current operator can be amended with this C-129A application.		
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7		
Determination of Reporting Requirements			
Answer all questions that apply. The Reason(s) statements are calculated based on your answers at Was this vent or flare caused by an emergency or malfunction	I		
Did this vent or flare last eight hours or more cumulatively within any 24-hour	Yes		
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 w	renting 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 > Extreme Weather Conditions > Multiple Compression 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	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 specification of the properties of the pr			
Methane (CH4) percentage quality requirement	0		
Nitrogen (N2) percentage quality requirement	0		
Hydrogen Sufide (H2S) PPM quality requirement	0		

0

Carbon Dioxide (C02) percentage quality requirement
Oxygen (02) percentage quality requirement

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QUESTIONS, Page 2

Action 453419

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	ONS (continued)		
Operator: OXY USA INC	OGRID: 16696		
P.O. Box 4294	Action Number:		
Houston, TX 772104294	453419		
	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	02/13/2025		
Time vent or flare was discovered or commenced	03:30 AM		
Time vent or flare was terminated	05:15 AM		
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: 133 MCF Recovered: 0 MCF Lost: 133 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			
	Τ		
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	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, several compressors malfunctioned and shutdown within a 24-hour period, due to extreme weather conditions affecting the compression equipment, which in turn triggered multiple brief intermittent flaring instances to occur. The compression equipment was severely affected by the extreme cold weather conditions, which prevented the lube oil from being pumped into the compressors, causing them to run dry. Consequently, they automatically shut down due to lube no flow alarms. The facility was winterized in anticipation of extreme freezing weather conditions.		

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Steps taken to limit the duration and magnitude of vent or flare	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, several compressors malfunctioned and shutdown within a 24-hour period, due to extreme weather conditions affecting the compression equipment, which in turn triggered multiple brief intermittent flaring instances to occur. The compression equipment was severely affected by the extreme cold weather conditions, which prevented the lube oil from being pumped into the compressors, causing them to run dry. Consequently, they automatically shut down due to lube no flow alarms. The facility was winterized in anticipation of extreme freezing weather conditions by on-site field personnel setting the levers on the compressors to closed positions in advance to isolate heat on gas discharge lines and by applying heat trace and insulation to the oil 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 o
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	Action Type:
	[C-129] Amend Venting and/or Flaring (C-129A)

ACKNOWLEDGMENTS

$\overline{\lor}$	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.
V	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.
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.
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 453419

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	453419
	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.	4/18/2025