



Certificate of Analysis

Number: 6030-24010171-001A

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. 17, 2024

Field:	PERMIAN_RESOURCES	Sampled By:	Mike Armijo
Station Name:	Falcon Ridge CGL(BTEX)	Sample Of:	Gas Composite
Station Number:	N/A	Sample Date:	01/15/2024 10:15
Station Location:	Dehy	Sample Conditions:	677 psig, @ 58 °F Ambient: 14 °F
Sample Point:	Inlet Dehy	Effective Date:	01/15/2024 10:15
Formation:	NEW_MEXICO	Flow Rate:	N/A
County:	Lea	Method:	GPA-2261M
Well Name:	N/A	Cylinder No:	5030-04006
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:	01/16/2024 13:42:44 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	1.2966	1.3215	1.6634	
Carbon Dioxide	1.0738	1.0944	2.1642	
Methane	71.6817	73.0563	52.6616	
Ethane	12.7892	13.0345	17.6108	3.480
Propane	7.5875	7.7330	15.3218	2.127
Iso-Butane	0.8655	0.8821	2.3037	0.288
n-Butane	1.9446	1.9819	5.1759	0.624
Iso-Pentane	0.3698	0.3769	1.2219	0.138
n-Pentane	0.3077	0.3136	1.0166	0.113
Hexanes	0.1225	0.1248	0.4832	0.051
Heptanes	0.0624	0.0636	0.2864	0.029
Octanes	0.0153	0.0156	0.0801	0.008
Nonanes Plus	0.0018	0.0018	0.0104	0.001
	98.1184	100.0000	100.0000	6.859

Calculated Physical Properties	Total	C9+
Calculated Molecular Weight	22.26	128.26
Compressibility Factor	0.9960	
Relative Density Real Gas	0.7712	4.4283
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.65 psia & 60°F		
Real Gas Dry BTU	1295.7	6974.4
Water Sat. Gas Base BTU	1273.6	6852.4
Ideal, Gross HV - Dry at 14.65 psia	1290.6	6974.4
Ideal, Gross HV - Wet	1268.0	6852.4

Comments: H2S Field Content N/A ppm
FMP/LSE N/A,

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:** 08/28/2024**Duration of Event:** 1 Hour**MCF Flared:** 50**Start Time:** 12:00 PM**End Time:** 01:00 PM**Cause:** Emergency Flare > Automation Issue > Rio Panel > Communication Failure**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 had a RIO 5213 communication failure malfunction alarm, which in turn, then triggered an emergency shutdown of the CGL station and prompted flaring to occur. Field Operator's do not have the training to troubleshoot these RIO panel devices, nor are they allowed to enter electrical cabinets and therefore, an automation technician had to be dispatched to resolve the issue and bring the Falcon Ridge CGL back to operating conditions. 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, the Falcon Ridge CGL had a RIO 5213 communication failure malfunction alarm, which in turn, then triggered an emergency shutdown of the CGL station. Field Operator's do not have the training to troubleshoot these RIO panel devices, nor are they allowed to enter electrical cabinets and therefore, an automation technician had to be dispatched to resolve the issue and bring the Falcon Ridge CGL back to operating conditions. Once the CGL shut down, the wells went into the autochoke process which automatically begins to choke back the wells production to the CGL station. Once the situation was assessed by field personnel and Oxy Control Room personnel, the wells were fully shut in. Once automation was alerted to the issue, they were able to get out there, reset the RIO panel and return the CGL to normal operating conditions. Once wells were completely shut-in, did flaring cease. 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 an automation and/or electrical issues. 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.

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1625 N. French Dr., Hobbs, NM 88240
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
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 384441

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 384441
	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 384441

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:	16696
	Action Number:	384441
	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	[fAPP2333082512] Falcon Ridge CGL CS

Determination of Reporting Requirements Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional 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 > Automation Issue > Rio Panel > Communication Failure

Representative Compositional Analysis of Vented or Flared Natural Gas Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	73
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 (O2) 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 (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 384441

QUESTIONS (continued)

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	Action Number: 384441
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	08/28/2024
Time vent or flare was discovered or commenced	12:00 PM
Time vent or flare was terminated	01:00 PM
Cumulative hours during this event	1

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: 50 Mcf Recovered: 0 Mcf Lost: 50 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	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 had a RIO 5213 communication failure malfunction alarm, which in turn, then triggered an emergency shutdown of the CGL station and prompted flaring to occur. Field Operator's do not have the training to troubleshoot these RIO panel devices, nor are they allowed to enter electrical cabinets and therefore, an automation technician had to be dispatched to resolve the issue and bring the Falcon Ridge CGL back to operating conditions. This event is out of OXY's control yet OXY made every effort to control and minimize emissions as much as possible.
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Steps taken to limit the duration and magnitude of vent or flare	RIO panel devices, nor are they allowed to enter electrical cabinets and therefore, an automation technician had to be dispatched to resolve the issue and bring the Falcon Ridge CGL back to operating conditions. Once the CGL shut down, the wells went into the autochoke process which automatically begins to choke back the wells production to the CGL station. Once the situation was assessed by field personnel and Oxy Control Room personnel, the wells were fully shut in. Once automation was alerted to the issue, they were able to get out there, reset the RIO panel and return the CGL to normal operating conditions. Once wells were completely shut-in, did flaring cease. 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 an automation and/or electrical issues. 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.

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ACKNOWLEDGMENTS

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[C-129] Venting and/or Flaring (C-129)	

ACKNOWLEDGMENTS

☒	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (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 384441

CONDITIONS

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	Action Number: 384441
	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.	9/17/2024