



## 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  
Station Name: Falcon Ridge CGL Check  
Station Number: 16920C  
Station Location: OP-L3821-CS001  
Sample Point: Meter  
Formation: NEW\_MEXICO  
County: Lea  
Well Name: CDP  
Type of Sample: : Spot-Cylinder  
Heat Trace Used: N/A  
Sampling Method: : Fill and Purge  
Sampling Company: :SPL

Sampled By: Roberto Andrade  
Sample Of: Gas Spot  
Sample Date: 01/16/2024 01:45  
Sample Conditions: 1212.9 psig, @ 93.1 °F Ambient: 25 °F  
Effective Date: 01/16/2024 01:45  
Flow Rate: 9433.446 MSCFD  
Method: GPA-2261M  
Cylinder No: 1111-007142  
Instrument: 70104251 (Inficon GC-MicroFusion)  
Last Inst. Cal.: 01/15/2024 0:00 AM  
Analyzed: 01/17/2024 12:26:56 by EBH

## 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 Properties	Total	C9+
Calculated Molecular Weight	23.65	128.26
Compressibility Factor	0.9954	
Relative Density Real Gas	0.8201	4.4283

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.65 psia & 60°F

Real Gas Dry BTU	1372.7	6974.4
Water Sat. Gas Base BTU	1349.3	6852.4
Ideal, Gross HV - Dry 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

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 Id#** fAPP2333082512**Operator:** OXY USA, Inc.**Facility:** Falcon Ridge CGL**Flare Date:** 04/01/2025**Duration of Event:** 46 Minutes**MCF Flared:** 50**Start Time:** 03:35 PM**End Time:** 04:21 PM**Cause:** Emergency Flare > Compression Equipment Scheduled Maintenance > Compressor Unit 3053 > Blowdown**Method of Flared Gas Measurement:** Gas Flare Meter

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**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, USA Compression performed scheduled maintenance on compressor unit 3053, requiring depressurization for safety. This resulted in a flaring event as high-pressure gas was released safely during the compressor blowdown. Although flaring is not OXY's preferred method for handling excess gas, it is necessary to ensure the safety of our operations, equipment, and field personnel. 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. This facility's flare has a 98% combustion efficiency to minimize emissions. In this case, USA Compression performed scheduled maintenance on compressor unit 3053, requiring depressurization for safety. This resulted in a flaring event as high-pressure gas was released safely during the compressor blowdown. Although flaring is not OXY's preferred method for handling excess gas, it is necessary to ensure the safety of our operations, equipment, and field personnel.

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

Oxy faces limitations in the corrective actions available to address the root cause and potential recurrence of flaring from a compressor blowdown, as compressors must be depressurized prior to any maintenance or troubleshooting activities, which can result in flaring. Oxy remains committed to maintaining and operating all equipment according to best practices for minimizing emissions and reducing the frequency of emission events. Additionally, Oxy has implemented a robust and effective preventative maintenance program for its equipment.

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 462451

**DEFINITIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 462451
	Action Type: [C-129] Venting and/or Flaring (C-129)

**DEFINITIONS**

<p>For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application:</p> <ul style="list-style-type: none"><li>• this application's operator, hereinafter "this operator";</li><li>• venting and/or flaring, hereinafter "vent or flare";</li><li>• any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";</li><li>• the statements in (and/or attached to) this, hereinafter "the statements in this";</li><li>• and the past tense will be used in lieu of mixed past/present tense questions and statements.</li></ul>
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QUESTIONS

Action 462451

**QUESTIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 462451
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<b>Prerequisites</b> <i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i>	
Incident Well	Unavailable.
Incident Facility	[fAPP2333082512] Falcon Ridge CGL CS

<b>Determination of Reporting Requirements</b> <i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
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.
<i>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.</i>	
Was there <b>at least 50 MCF</b> of natural gas vented and/or flared during this event	Yes
Did this vent or flare result in the release of <b>ANY</b> 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 within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

<b>Equipment Involved</b>	
Primary Equipment Involved	Other (Specify)
Additional details for Equipment Involved. Please specify	Emergency Flare > Compression Equipment Scheduled Maintenance > Compressor Unit 3053 > Blowdown

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b> <i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	70
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	1
Oxygen (O2) percentage, if greater than one percent	0
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
Methane (CH4) percentage quality requirement	Not answered.
Nitrogen (N2) percentage quality requirement	Not answered.
Hydrogen Sulfide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (CO2) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 462451

**QUESTIONS (continued)**

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

**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	04/01/2025
Time vent or flare was discovered or commenced	03:35 PM
Time vent or flare was terminated	04:21 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, USA Compression performed scheduled maintenance on compressor unit 3053, requiring depressurization for safety. This resulted in a flaring event as high-pressure gas was released safely during the compressor blowdown. Although flaring is not OXY's preferred method for handling excess gas, it is necessary to ensure the safety of our operations, equipment, and field personnel. This event is out of OXY's control yet OXY made every effort to control and minimize emissions as much as possible.
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. This facility's flare has a 98% combustion efficiency to minimize emissions. In this case, USA Compression performed scheduled maintenance on compressor unit 3053, requiring depressurization for safety. This resulted in a flaring event as high-pressure gas was released safely during the compressor blowdown. Although flaring is not OXY's preferred method for handling excess gas, it is necessary to ensure the

	safety of our operations, equipment, and field personnel.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Oxy faces limitations in the corrective actions available to address the root cause and potential recurrence of flaring from a compressor blowdown, as compressors must be depressurized prior to any maintenance or troubleshooting activities, which can result in flaring. Oxy remains committed to maintaining and operating all equipment according to best practices for minimizing emissions and reducing the frequency of emission events. Additionally, Oxy has implemented a robust and effective preventative maintenance program for its equipment.

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ACKNOWLEDGMENTS

Action 462451

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	Action Number: 462451
	Action Type: [C-129] Venting and/or Flaring (C-129)

**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	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 <b>complete</b> C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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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	Action Number: 462451
	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.	5/14/2025