



## Certificate of Analysis

Number: 6030-23030240-001A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

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

Mar. 24, 2023

Field: PERMIAN\_RESOURCES  
Station Name: Silver CTB Train 2 Check (FMP)  
Station Number: 17322C  
Station Location: OP-L0906-BT001  
Sample Point: Meter  
Formation: NEW\_MEXICO  
County:  
Type of Sample: : Spot-Cylinder  
Heat Trace Used: N/A  
Sampling Method: : Fill and Purge  
Sampling Company: :SPL

Sampled By: Raul Salazar  
Sample Of: Gas Spot  
Sample Date: 03/15/2023  
Sample Conditions: 90 psig, @ 81.7 °F Ambient: 82 °F  
Effective Date: 03/15/2023  
Method: GPA-2261M  
Cylinder No: 1111-002257  
Instrument: 70104251 (Inficon GC-MicroFusion)  
Last Inst. Cal.: 03/20/2023 0:00 AM  
Analyzed: 03/22/2023 07:36:53 by EBH

## Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia
Nitrogen	1.380	1.40774	1.484	
Carbon Dioxide	2.772	2.82680	4.680	
Methane	68.132	69.48661	41.939	
Ethane	10.722	10.93485	12.370	2.926
Propane	5.686	5.79914	9.621	1.598
Iso-Butane	0.784	0.79928	1.748	0.262
n-Butane	1.904	1.94165	4.246	0.612
Iso-Pentane	0.535	0.54564	1.481	0.200
n-Pentane	0.730	0.74431	2.020	0.270
Hexanes	1.775	1.80978	5.868	0.745
Heptanes	2.627	2.67953	10.101	1.237
Octanes	0.933	0.95185	4.091	0.488
Nonanes Plus	0.071	0.07282	0.351	0.041
	98.051	100.00000	100.000	8.379

## Calculated Physical Properties

	Total	C9+
Calculated Molecular Weight	26.58	128.26
Compressibility Factor	0.9939	
Relative Density Real Gas	0.9230	4.4283

## GPA 2172 Calculation:

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

Real Gas Dry BTU	1484.8	6974.4
Water Sat. Gas Base BTU	1459.5	6852.4
Ideal, Gross HV - Dry at 14.65 psia	1475.7	6974.4
Ideal, Gross HV - Wet	1449.9	6852.4

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

**UPSET VENTING EVENT SPECIFIC JUSTIFICATIONS FORM****Facility:** Silver 33 CTB**Vent Date:** 07/16/2024**Duration of Event:** 2 Hours 50 Minutes**MCF Vent:** 153**Start Time:** 12:00 AM**End Time:** 02:50 AM**Cause:** Venting > Water Tanks > Tester 8 > Water Dump Issues**Method of Vent Gas Measurement:** Estimated Vent Calculations

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

We are venting our gas to limit emissions until the issue is resolved. 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. In this case, Tester 8 water dump and automation failure, which suddenly and unexpectedly, caused venting to occur the previous day and continued until it was temporarily resolved, and venting ceased in the twilight morning hours. The well did not kick back to production and lost level in tester and sent gas to water tanks causing over pressure and higher VCU rates. 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:**

We are venting our gas to limit emissions until the issue is resolved. 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. In this case, Tester 8 water dump and automation failure, which suddenly and unexpectedly, caused venting to occur the previous day and continued until it was temporarily resolved, and venting ceased in the twilight morning hours. The well did not kick back to production and lost level in tester and sent gas to water tanks causing over pressure and higher VCU rates. As soon as venting was noticed, the Oxy production tech quickly switched the well out of test and back to production manually, which took some time to do. A request was submitted to Oxy's automation team to troubleshoot as to why the well did not kick out of test after reaching low level. 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:**

We are venting our gas to limit emissions until the issue is resolved. 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. In this case, Tester 8 water dump and automation failure, which suddenly and unexpectedly, caused venting to occur the previous day and continued until it was temporarily resolved, and venting ceased in the twilight morning hours. The well did not kick back to production and lost level in tester and sent gas to water tanks causing over pressure and higher VCU rates. As soon as venting was noticed, the Oxy production tech quickly switched the well out of test and back to production manually. A request was submitted to Oxy's automation team to troubleshoot as to why the well did not kick out of test after reaching low level. 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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**District IV**  
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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 369178

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 369178
	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: <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 369178

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:	16696
	Action Number:	369178
	Action Type:	[C-129] Venting and/or Flaring (C-129)

QUESTIONS

<b>Prerequisites</b> 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	[fAPP2213360538] SILVER NC 33 & 26 OGS

<b>Determination of Reporting Requirements</b> 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

<b>Equipment Involved</b>	
Primary Equipment Involved	Other (Specify)
Additional details for Equipment Involved. Please specify	Venting > Water Tanks > Tester 8 > Water Dump Issues

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b> Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	69
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	3
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 369178

QUESTIONS (continued)

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	Action Number: 369178
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	07/16/2024
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	02:50 AM
Cumulative hours during this event	3

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Other   Other (Specify)   Natural Gas Vented   Released: 153 Mcf   Recovered: 0 Mcf   Lost: 153 Mcf.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Estimated Vent Calculations
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	We are venting our gas to limit emissions until the issue is resolved. 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. In this case, Tester 8 water dump and automation failure, which suddenly and unexpectedly, caused venting to occur the previous day and continued until it was temporarily resolved, and venting ceased in the twilight morning hours. The well did not kick back to production and lost level in tester and sent gas to water tanks causing over pressure and higher VCU rates. 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	We are venting our gas to limit emissions until the issue is resolved. 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. In this case, Tester 8 water dump and automation failure, which suddenly and unexpectedly, caused venting to occur the previous day and continued until it was temporarily resolved, and venting ceased in the twilight morning hours. The well did not kick back to production and lost level in tester and sent gas to water tanks causing over pressure and higher VCU rates. As soon as venting was noticed, the Oxy production tech quickly switched the well out of test and back to production manually, which took some time to do. A request

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Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	We are venting our gas to limit emissions until the issue is resolved. 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. In this case, Tester 8 water dump and automation failure, which suddenly and unexpectedly, caused venting to occur the previous day and continued until it was temporarily resolved, and venting ceased in the twilight morning hours. The well did not kick back to production and lost level in tester and sent gas to water tanks causing over pressure and higher VCU rates. As soon as venting was noticed, the Oxy production tech quickly switched the well out of test and back to production manually. A request was submitted to Oxy's automation team to troubleshoot as to why the well did not kick out of test after reaching low level. 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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ACKNOWLEDGMENTS

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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

Action 369178

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	Action Number: 369178
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CONDITIONS

Created By	Condition	Condition Date
marialuna2	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.	7/31/2024