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	Sampled By:	Raul Salazar
Station Name:	Silver CTB Train 2 Check (FMP)	Sample Of:	Gas Spot
Station Number:	17322C	Sample Date:	03/15/2023
Station Location:	OP-L0906-BT001	Sample Conditions:	90 psig, @ 81.7 °F Ambient: 82 °F
Sample Point:	Meter	Effective Date:	03/15/2023
Formation:	NEW_MEXICO	Method:	GPA-2261M
County:		Cylinder No:	1111-002257
Type of Sample: :	Spot-Cylinder	Instrument:	70104251 (Inficon GC-MicroFusion)
Heat Trace Used:	N/A	Last Inst. Cal.:	03/20/2023 0:00 AM
Sampling Method: :	Fill and Purge	Analyzed:	03/22/2023 07:36:53 by EBH
Sampling Company: :	SPL		

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 ft³ @ 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: 07/15/2024

Duration of Event: 10 Hours 19 Minutes

MCF Vent: 625

Start Time: 01:40 PM

End Time: 11:59 PM

Cause: Venting > Water Tanks > Tester 8 > Water Dump Issues

Method of Vent Gas Measurement: Estimated Vent Calculations

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 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 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.

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

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 374802
	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 374802

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 374802
	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 continuing with the rest of the questions.	
Incident ID (n#)	*Unavailable.*
Incident Name	*Unavailable.*
Incident Type	**Vent**
Incident Status	*Unavailable.*
Incident Facility	**[fAPP2213360538] SILVER NC 33 & 26 OGS**
Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section) that are assigned to your 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 and may provide addional 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	Yes
Is this considered a submission for a vent or flare event	**Yes, major 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	Venting > Water Tanks > Tester 8 > Water Dump 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	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 (02) 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	0
Nitrogen (N2) percentage quality requirement	0
Hydrogen Sufide (H2S) PPM quality requirement	0
Carbon Dioxide (C02) percentage quality requirement	0
Oxygen (02) percentage quality requirement	0

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QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 374802
	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	07/15/2024
Time vent or flare was discovered or commenced	01:40 PM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	10

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Other | Other (Specify) | Natural Gas Vented | Released: 625 MCF | Recovered: 0 MCF | Lost: 625 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	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	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 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 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

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 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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	Action Number: 374802
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ACKNOWLEDGMENTS

☑	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.
☑	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 374802

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 374802
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

CONDITIONS

Created By	Condition	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.	8/18/2024