

Certificate of Analysis

Number: 6030-23020156-001A

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

Chandler Montgomery Occidental Petroleum 1502 W Commerce Dr. Carlsbad, NM 88220 Feb. 16, 2023

Field: Mesa Verde Sampled By: Raul Salazar Station Name: Mesa Verde CTB Check 2 Sample Of: Gas Spot Station Number: 15500D Sample Date: 02/08/2023

Station Location: CTB Sample Conditions: 100 psig, @ 74.2 °F Ambient: 60 °F Sample Point: Meter Effective Date: 02/08/2023
Formation: Monthly Method: GPA-2261M
County: 1414 007640

County: Lea, NM Cylinder No: 1111-007610
Type of Sample: Spot-Cylinder Instrument: 70104251 (Inficon GC-MicroFusion)

Heat Trace Used: N/A Last Inst. Cal.: 02/14/2023 0:00 AM

Sampling Method: : Fill and Purge Analyzed: 02/16/2023 08:35:27 by EBH

Sampling Company: : SPL

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia
Nitrogen	1.055	1.07848	1.318	
Carbon Dioxide	4.247	4.34006	8.330	
Methane	70.693	72.23909	50.544	
Ethane	11.464	11.71486	15.363	3.128
Propane	6.276	6.41282	12.333	1.764
Iso-Butane	0.844	0.86276	2.187	0.282
n-Butane	1.905	1.94686	4.935	0.613
Iso-Pentane	0.425	0.43399	1.366	0.158
n-Pentane	0.434	0.44328	1.395	0.160
Hexanes	0.250	0.25547	0.960	0.105
Heptanes	0.169	0.17270	0.755	0.080
Octanes	0.069	0.07051	0.351	0.036
Nonanes Plus	0.029	0.02912	0.163	0.016
	97.860	100.00000	100.000	6.342
Calculated Physical P	Properties	Tota	l	C9+
Calculated Molecular V	Veight	22.93	3	128.26
Compressibility Factor		0.9960)	
Relative Density Real C	Gas	0.7946	6	4.4283
GPA 2172 Calculation):			
Calculated Gross BTU	J per ft³ @ 14.65 ps	sia & 60°F		
Real Gas Dry BTU		1254.2	2	6974.4
Water Sat. Gas Base B	BTU	1232.8	3	6852.4
Ideal, Gross HV - Dry a	at 14.65 psia	1249.2		6974.4
Ideal, Gross HV - Wet		1227.3	3	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: Mesa Verde 18 CTB Vent Date: 02/06/2025

Duration of Event: 8 Hours **MCF Vented:** 57

Start Time: 01:00 AM End Time: 09:00 AM

Cause: Equipment Malfunction > VCU > Faulty Scrubber Dump

Method of Gas Measurement: Allocated Calculation

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 an\d 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 instance, the VCU scrubber automatically shut down due to an abrupt and unforeseen malfunction of a significant level. Consequently, this led to the VCU becoming inoperative and the water tanks commencing to vent. Prior to the venting occurring, all equipment were working as designed and operated normally prior to the sudden and without warning malfunction. This venting event is out of OXY's control to prevent from happening yet OXY made every effort to control and minimize emissions as much as possible during this event by working safely and diligently.

2. Steps Taken to limit duration and magnitude of venting or flaring:

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 an\d 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 instance, the VCU scrubber automatically shut down due to an abrupt and unforeseen malfunction of a significant level. Consequently, this led to the VCU becoming inoperative and the water tanks commencing to vent. Prior to the venting occurring, all equipment were working as designed and operated normally prior to the sudden and without warning malfunction. As soon as venting was recognized as occurring, a VCU technician was requested to be dispatched from a third-party vendor, to troubleshoot the issue regarding the faulty scrubber dump. The venting was stopped once the issue was resolved. While venting is not Oxy's preferred method of handling excess gas, it is a necessary step under these exceptional circumstances to maintain the integrity and safety of our operations. 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 has limited options for corrective actions to address the causes and potential recurrence of equipment malfunctions. This is due to the dynamic nature of various equipment designs and operations. Facility equipment, regardless of type, can experience sudden and unforeseeable alarms, whether false or true, which may lead to unexpected malfunctions and subsequently trigger venting events. 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.

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 434290

DEFINITIONS

ı	Operator:	OGRID:
ı	OXY USA INC	16696
ı	P.O. Box 4294	Action Number:
ı	Houston, TX 772104294	434290
ı		Action Type:
ı		[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 434290

Q	UESTIONS	
Operator:		OGRID:
OXY USA INC P.O. Box 4294		16696 Action Number:
Houston, TX 772104294		434290
		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 wit	h the rest of the questions.
Incident Well	Unavailable.	
Incident Facility	[fAPP2126659618] MESA V	/ERDE 18 CTB
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	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, 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 v	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		CU > Faulty Scrubber Dump
Representative Compositional Analysis of Vented or Flared Natural Gas		
Please provide the mole percent for the percentage questions in this group.		
Methane (CH4) percentage	72	
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	4	
Oxygen (02) percentage, if greater than one percent	0	
Management of the state of the	::::::::::::::::::::::::::::::::::::::	
If you are venting and/or flaring because of Pipeline Specification, please provide the required specification (CH4) percentage quality requirement	Not answered.	
	Not answered. Not answered.	
Nitrogen (N2) percentage quality requirement		
Hydrogen Sufide (H2S) PPM quality requirement	Not answered.	
Carbon Dioxide (C02) percentage quality requirement Oxygen (02) percentage quality requirement	Not answered. Not answered.	
Ongoin (02) percentage quanty requirement	NOL GIISWEIEU.	

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QUESTIONS, Page 2

Action 434290

QUESTI	ONS (continued)
Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294 Houston, TX 772104294	Action Number: 434290
Houston, IXTIZIO4254	Action Type:
	[C-129] Venting and/or Flaring (C-129)
QUESTIONS	
Date(s) and Time(s)	
Date vent or flare was discovered or commenced	02/06/2025
Time vent or flare was discovered or commenced	01:00 AM
Time vent or flare was terminated	09:00 AM
Cumulative hours during this event	8
Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
	Cause: Other Other (Specify) Natural Gas Flared Released: 57 Mcf Recovered: 0 Mcf
Natural Gas Flared (Mcf) Details	Lost: 57 Mcf.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Allocated Calculation
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 an\d 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 instance, the VCU scrubber automatically shut down due to an abrupt and unforeseen malfunction of a significant level. Consequently, this led to the VCU becoming inoperative and the water tanks commencing to vent. Prior to the venting occurring, all equipment were working as designed and operated normally prior to the sudden and without warning malfunction. This venting event is out of OXY's control to prevent from happening yet OXY made every effort to control and minimize emissions as much as possible during this event by working safely and diligently.
	This emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable

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 instance, the VCU scrubber automatically shut down due to an abrupt and unforeseen malfunction of a significant level.

Steps taken to limit the duration and magnitude of vent or flare	Consequently, this led to the VCU becoming inoperative and the water tanks commencing to vent. Prior to the venting occurring, all equipment were working as designed and operated normally prior to the sudden and without warning malfunction. As soon as venting was recognized as occurring, a VCU technician was requested to be dispatched from a third-party vendor, to troubleshoot the issue regarding the faulty scrubber dump. The venting was stopped once the issue was resolved. While venting is not Oxy's preferred method of handling excess gas, it is a necessary step under these exceptional circumstances to maintain the integrity and safety of our operations. 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 has limited options for corrective actions to address the causes and potential recurrence of equipment malfunctions. This is due to the dynamic nature of various equipment designs and operations. Facility equipment, regardless of type, can experience sudden and unforeseeable alarms, whether false or true, which may lead to unexpected malfunctions and subsequently trigger venting events. 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.

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

ACKNOWLEDGMENTS

V	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.
V	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.
V	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.
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.
<u>~</u>	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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P.O. Box 4294	Action Number:
Houston, TX 772104294	434290
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By		Condition Date
shelbyschoepf	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.	