

### 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: 1111 007610

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		C9+
Calculated Molecular V	Veight	22.93	3	128.26
Compressibility Factor		0.9960	)	
Relative Density Real (		0.7946	5	4.4283
<b>GPA 2172 Calculation</b>	==			
Calculated Gross BTU	J per ft³ @ 14.65 ps	sia & 60°F		
Real Gas Dry BTU		1254.2	<u> </u>	6974.4
Water Sat. Gas Base B		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

Brille &

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 <a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

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

DEFINITIONS

Action 475353

### **DEFINITIONS**

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	475353
	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.

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

QUESTIONS

Action 475353

Q	UESTIONS		
Operator:	OGRID:		
OXY USA INC	16696		
P.O. Box 4294 Houston, TX 772104294	Action Number: 475353		
	Action Type:		
QUESTIONS	[C-129] Amend Venting and/or Flaring (C-129A)		
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	Flare		
Incident Status	Unavailable.		
Incident Facility	[fAPP2126659618] MESA VERDE 18 CTB		
Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section	on) 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 a	nd 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, 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			
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 <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	No		
environment or fresh water			
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			
	T		
Primary Equipment Involved	Other (Specify)		
Additional details for Equipment Involved. Please specify	Equipment Malfunction > VCU > 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		
If you are venting and/or flaring because of Pipeline Specification, please provide the required spec	cifications for each gas.		
Methane (CH4) percentage quality requirement	0		
Nitrogen (N2) percentage quality requirement	1.0		

0

0

0

Hydrogen Sufide (H2S) PPM quality requirement

Oxygen (02) percentage quality requirement

Carbon Dioxide (C02) percentage quality requirement

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116

Online Phone Directory
<a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

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

QUESTIONS, Page 2

Action 475353

Santa	1 e, 14141 07 303
QUESTI	ONS (continued)
Operator:	OGRID:
OXY USA INC P.O. Box 4294	16696 Action Number:
Houston, TX 772104294	475353
	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	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
Canada and notice and any and ottom	
Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Other   Other (Specify)   Natural Gas Vented   Released: 57 Mcf   Recovered: 0 Mcf   Lost: 57 Mcf.
Natural Gas Flared (Mcf) Details	Not answered.
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	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	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 breakdown of equipment or process that was beyond the owner/operator's control an\d did not stam 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.

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

ACKNOWLEDGMENTS

Action 475353

### **ACKNOWLEDGMENTS**

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	475353
	Action Type:
	[C-129] Amend Venting and/or Flaring (C-129A)

### ACKNOWLEDGMENTS

$\overline{\lor}$	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.

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

CONDITIONS

Action 475353

#### **CONDITIONS**

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	475353
	Action Type:
	[C-129] Amend Venting and/or Flaring (C-129A)

#### CONDITIONS

Created By		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.	6/16/2025