

Certificate of Analysis

Number: 6030-24040534-001A

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

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

Apr. 29, 2024

Field: PERMIAN RESOURCES Sampled By: JΕ

Station Name: Mesa Verde CTB Check 2 (FMP) Sample Of: FS Separator Gas Spot

Station Number: 15500D Sample Date: 04/18/2024 10:20

Station Location: OP-L2109-BT001 Sample Conditions: 84 psig, @ 76 °F Ambient: 75 °F

04/18/2024 10:20 Sample Point: Meter Effective Date: FMP/LSE NMNM055953 Property ID: Flow Rate: 46210 MSCFD Formation: **NEW_MEXICO** Method: GPA-2261M

County: Cylinder No: 9999-005157

Well Name: CTB Instrument: 70104251 (Inficon GC-MicroFusion)

Type of Sample: : Spot-Cylinder Last Inst. Cal.: 04/22/2024 0:00 AM

Heat Trace Used: N/A Analyzed: 04/25/2024 07:17:05 by EBH

Sampling Method: : Fill and Purge Sampling Company: : OXY

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia	
Hydrogen Sulfide	0.0000	0.0000	0.0000		
Nitrogen	1.6661	1.6670	2.0766		
Carbon Dioxide	3.8369	3.8389	7.5130		
Methane	73.8729	73.9124	52.7288		
Ethane	10.8777	10.8835	14.5528	2.905	
Propane	5.6687	5.6717	11.1216	1.560	
Iso-Butane	0.7402	0.7406	1.9142	0.242	
n-Butane	1.7965	1.7975	4.6459	0.566	
Iso-Pentane	0.4287	0.4289	1.3761	0.157	
n-Pentane	0.4689	0.4692	1.5054	0.170	
Hexanes	0.2789	0.2790	1.0692	0.115	
Heptanes	0.1860	0.1861	0.8292	0.086	
Octanes	0.0752	0.0752	0.3820	0.038	
Nonanes Plus	0.0500	0.0500	0.2852	0.028	
	99.9467	100.0000	100.0000	5.867	
Calculated Physical	Properties	Tot	al	C9+	
Calculated Molecular '	Weight	22.4	19	128.26	
Compressibility Factor	•	0.996	52		
Relative Density Real	Gas	0.779	91	4.4283	
GPA 2172 Calculatio	n:				
Calculated Gross BT	U per ft ³ @ 14.65 ps	sia & 60°F			
Real Gas Dry BTU		1233	.1	6974.4	
Water Sat. Gas Base	BTU	1212	.0	6852.4	
Ideal, Gross HV - Dry	at 14.65 psia	1228	.4	6974.4	
Ideal, Gross HV - Wet		1206	.9	6852.4	
Comments: H2S Fie					

WO# N/A

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 WC #40H Vent Date: 02/25/2025

Duration of Event: 2 Hours 53 Minutes

MCF Vented: 299

Start Time: 12:00 AM

End Time: 02:53 AM

Cause: Mesa Verde WC #40H > Flow Line A > Flow Line Rupture

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 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 instance, Mesa Verde WC #40H had a flow line rupture on the flow line A on a right a-way going east towards the Mesa Verde 18 CTB. The flow line is an existing flex steel line which had a compromised integrity due to a defect in its bend, which in turn, caused the flow line to rub against another line and creating a wear spot in the line. The flow line ultimately ruptured, leading to the release of fluid and gas into the atmosphere. The flow line did not reach its maximum allowable working pressure. It was rated for the pressures at which it was operated before the rupture and subsequent venting occurred. All the flow lines were functioning as designed and operating normally prior to the unexpected malfunction. This equipment malfunction was spotted during a production tech's daily rounds of the area. 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 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 instance, Mesa Verde WC #40H had a flow line rupture on the flow line A on a right a-way going east towards the Mesa Verde 18 CTB. The flow line is an existing flex steel line which had a compromised integrity due to a defect in its bend, which in turn, caused the flow line to rub against another line and creating a wear spot in the line. The flow line ultimately ruptured, leading to the release of fluid and gas into the atmosphere. The flow line did not reach its maximum allowable working pressure. It was rated for the pressures at which it was operated before the rupture and subsequent venting occurred. As soon as venting was recognized as occurring, the production tech contacted the field's Rover and Surface Lead to inform them of the issue. The production tech and the Control Room began looking for the well line which had ruptured. The production tech had flow back personnel isolating one well at a time at the flowback well pads to identify Mesa Verde WC #40H flowline A as the one which had ruptured. The venting was stopped once repairs were made and tested to ensure venting was no longer occurring. 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 continued 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 flowline equipment malfunctions. Faulty flow lines that have bends and curves in them are marked and are in process of being removed and replaced. The production technicians on site are conducting routine inspections, monitoring the flow lines and the activity of the operational lines. Flowback personnel are monitoring flow line pressure and flow line temperature. This flow line has a sacrificial valve on it and its cut back 50% to help alleviate high temperature. 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 441931

DEFINITIONS

ı	Operator:	OGRID:
ı	OXY USA INC	16696
ı	P.O. Box 4294	Action Number:
ı	Houston, TX 772104294	441931
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 441931

Q	UESTIONS	
Operator:		OGRID:
OXY USA INC P.O. Box 4294		16696 Action Number:
Houston, TX 772104294		441931
		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 t	these issues before continuing wit	h the rest of the questions.
Incident Well	[30-025-48825] MESA VER	DE WOLFCAMP UNIT #040H
Incident Facility	Unavailable.	
Determination of Reporting Requirements		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers are		
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 v	enting 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		
	0" (0 ''')	
Primary Equipment Involved	Other (Specify)	
Additional details for Equipment Involved. Please specify	Mesa Verde WC #40H > Flo	ow Line A > Flow Line Rupture
Description Operation I Amelia of Visit of a Florida National Operation		
Representative Compositional Analysis of Vented or Flared Natural Gas Please provide the mole percent for the percentage questions in this group.		
Methane (CH4) percentage	74	
Nitrogen (N2) percentage, if greater than one percent	2	
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	
Oxygen (02) percentage, if greater than one percent	U	
If you are venting and/or flaring because of Pipeline Specification, please provide the required spec	ifications 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.	
Overen (02) percentage quality requirement	Not answored	

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QUESTIONS, Page 2

Action 441931

QUES	TIONS (continued)
Operator:	OGRID:
OXY USA INC P.O. Box 4294	16696
Houston, TX 772104294	Action Number: 441931
	Action Type: [C-129] Venting and/or Flaring (C-129)
QUESTIONS	
Date(s) and Time(s)	
Date vent or flare was discovered or commenced	02/25/2025
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	02:53 AM
Cumulative hours during this event	3
Measured or Estimated Volume of Vented or Flared Natural Gas	
measured of Estimated volume of vented of Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Other Other (Specify) Natural Gas Vented Released: 299 Mcf Recovered: 0 Mcf Lost: 299 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	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.
Otana and Astiona to Durant Waste	
Steps and Actions to Prevent Waste	
For this event, this operator could not have reasonably anticipated the current even and it was beyond this operator's control.	t 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 instance, Mesa Verde WC #40H had a flow line rupture on the flow line A on a right a-way going east towards the Mesa Verde 18 CTB. The flow line is an existing flex steel line which had a compromised integrity due to a defect in its bend, which in turn, caused the flow line to rub against another line and creating a wear spot in the line. The flow line ultimately ruptured, leading to the release of fluid and gas into the atmosphere. The flow line did not reach its maximum allowable working pressure. It was rated for the pressures at which it was operated before the rupture and subsequent venting occurred. All the flow lines were functioning as designed and operating normally prior to the unexpected malfunction. This equipment malfunction was spotted during a production tech's daily rounds of the area. This venting event is out of OXY's control

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much as possible during this event by working safely and diligently.

Steps taken to limit the duration and magnitude of vent or flare	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, Mesa Verde WC #40H had a flow line rupture on the flow line A on a right a-way going east towards the Mesa Verde 18 CTB. The flow line is an existing flex steel line which had a compromised integrity due to a defect in its bend, which in turn, caused the flow line to rub against another line and creating a wear spot in the line. The flow line ultimately ruptured, leading to the release of fluid and gas into the atmosphere. The flow line did not reach its maximum allowable working pressure. It was rated for the pressures at which it was operated before the rupture and subsequent venting occurred. As soon as venting was recognized as occurring, the production tech contacted the field's Rover and Surface Lead to inform them of the issue. The production tech had flow back personnel isolating one well at a time at the flowback well pads to identify Mesa Verde WC #40H flowline A as the one which had ruptured. The venting was stopped once repairs were made and tested to ensure venting was no longer occurring. 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 continued 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 flowline equipment malfunctions. Faulty flow lines that have bends and curves in them are marked and are in process of being removed and replaced. The production technicians on site are conducting routine inspections, monitoring the flow lines and the activity of the operational lines. Flowback personnel are monitoring flow line pressure and flow line temperature. This flow line has a sacrificial valve on it and its cut back 50% to help alleviate high temperature. 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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ACKNOWLEDGMENTS

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	Action Type:
	[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.
V	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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Operator:	OGRID:
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P.O. Box 4294	Action Number:
Houston, TX 772104294	441931
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

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.	3/12/2025