



Certificate of Analysis

Number: 6030-24080778-001A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

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

Sep. 07, 2024

Field: PERMIAN_RESOURCES
Station Name: Mesa Verde CTB Check (FMP)
Station Number: 15500C
Station Location: OP-L2109-BT001
Sample Point: Meter
Property ID: FMP/LSE NMNM137096X
Formation: NEW_MEXICO
County:
Well Name: CTB
Type of Sample: : Spot-Cylinder
Heat Trace Used: N/A
Sampling Method: : Fill and Purge

Sampled By: JE
Sample Of: Gas Spot
Sample Date: 08/26/2024 13:00
Sample Conditions: 88 psig, @ 100 °F Ambient: 94 °F
Effective Date: 08/26/2024 13:00
Flow Rate: 16345 MSCFD
Method: GPA-2261M
Cylinder No: 1111-012788
Instrument: 70142339 (Inficon GC-MicroFusion)
Last Inst. Cal.: 08/26/2024 0:00 AM
Analyzed: 08/29/2024 11:13:00 by CDW
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	1.5659	1.5454	1.8290	
Carbon Dioxide	3.1602	3.1189	5.7990	
Methane	73.5473	72.5866	49.1967	
Ethane	11.1262	10.9809	13.9497	2.933
Propane	5.8165	5.7405	10.6943	1.580
Iso-Butane	0.8750	0.8636	2.1206	0.282
n-Butane	2.2109	2.1820	5.3580	0.687
Iso-Pentane	0.5872	0.5795	1.7664	0.212
n-Pentane	0.6889	0.6799	2.0724	0.246
Hexanes	0.5852	0.5776	2.1029	0.237
Heptanes	0.7336	0.7240	3.0649	0.334
Octanes	0.4029	0.3976	1.9188	0.203
Nonanes Plus	0.0238	0.0235	0.1273	0.013
	101.3236	100.0000	100.0000	6.727

Calculated Physical Properties	Total	C9+
Calculated Molecular Weight	23.67	128.26
Compressibility Factor	0.9955	
Relative Density Real Gas	0.8206	4.4283
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.65 psia & 60°F		
Real Gas Dry BTU	1317.2	6974.4
Water Sat. Gas Base BTU	1294.7	6852.4
Ideal, Gross HV - Dry at 14.65 psia	1311.3	6943.2
Ideal, Gross HV - Wet	1288.3	6818.7

Comments: H2S Field Content 0 ppm

Mostafa Ahmmed

Hydrocarbon Laboratory Manager

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

**UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM****Facility Id#** fAPP2126659618**Operator:** OXY USA, Inc.**Facility:** Mesa Verde 18 CTB**Flare Date:** 05/20/2025**Duration of Event:** 9 Hours 56 Minutes**MCF Flared:** 105**Start Time:** 12:47 PM**End Time:** 10:43 PM**Cause:** Emergency Flare > Third Party Energy Power Provider > Xcel Energy > Power Outage > Jumper Loss**Method of Flared Gas Measurement:** Gas Flare Meter**1. Reason why this event was beyond Operator's control:**

This emission was 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 instance, Xcel Energy, the third-party power provider, encountered operational difficulties resulting in a widespread power outage. The issue was caused by the loss of a jumper, effectively severing a leg of power. This unexpected outage impacted the Mesa Verde area, leading to the backup and flaring of sales gas due to the cessation of all equipment and operations. This event could not have been foreseen, avoided, or prevented as this event occurred with no advance notice or warning from Xcel Energy. Oxy's facility require power to function and when the power goes out, equipment such as pumps, valves, and compressors will stop working, leading to overpressure in critical equipment, which could lead to rupture and/or explosions. OXY made every effort to control and minimize emissions as much as possible during this event and ensured all its operational equipment was slowly brought back to normal operations and running efficiently once power was restored to the facility. Although flaring is not OXY's preferred method for handling excess gas, it is necessary to ensure the safety of our operations, equipment, and field personnel. This event could not have been foreseen, avoided, or prevented as this event occurred with no advance notice or warning. OXY made every effort to control and minimize emissions as much as possible during this event.

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

It is OXY's policy to route its stranded gas to a flare during an unforeseen and unavoidable emergency or malfunction, that is beyond Oxy's control to avoid, prevent or foresee, to minimize emissions as much as possible as part of the overall steps taken to limit duration and magnitude of flaring. The flare at this facility has 98% combustion efficiency to lessen emissions as much as possible. In this instance, Xcel Energy, the third-party power provider, encountered operational difficulties resulting in a widespread power outage. The issue was caused by the loss of a jumper, effectively severing a leg of power. This unexpected outage impacted the Mesa Verde area, leading to the backup and flaring of sales gas due to the cessation of all equipment and operations. This event could not have been foreseen, avoided, or prevented as this event occurred with no advance notice or warning from Xcel Energy. Oxy's facility require power to function and when the power goes out, equipment such as pumps, valves, and compressors will stop working, leading to overpressure in critical equipment, which could lead to rupture and/or explosions. OXY made every effort to control and minimize emissions as much as possible during this event and ensured all its operational equipment was slowly brought back to normal operations and running efficiently once power was restored to the facility. Although flaring is not OXY's preferred method for handling excess gas, it is necessary to ensure the safety of our operations, equipment, and field personnel. As soon as flaring was triggered, Oxy production techs manually choked back all wells in the field to reduce injection and

sales gas so that pressure would stay below the flare trigger setpoints of the facility to cease flaring. This flaring situation was beyond OXY's control, yet Oxy took all possible measures to reduce emissions effectively.

3. Corrective Actions taken to eliminate the cause and reoccurrence of venting or flaring:

Oxy is unable to and is limited in the corrective actions to eliminate this type of cause and potential reoccurrence of flaring resulting from third party provider power outages, whether scheduled or unscheduled, as Oxy is unable to decree how long a power outage can continue. Oxy continually strives to maintain and operate all its facility equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events, when possible. Although flaring is not OXY's preferred method for handling excess gas, it is necessary to ensure the safety of our operations, equipment, and field personnel. The only steps Oxy can take during this circumstance is to minimize and cease flaring is by manually choking back all wells until power is restored. Oxy will ensure all its operational equipment is slowly brought back to normal operations and running efficiently once power is restored to the facility so that flaring is ceased.

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

General Information
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Online Phone Directory
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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

Action 475875

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 475875
	Action Type: [C-129] Venting and/or Flaring (C-129)

DEFINITIONS

<p>For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application:</p> <ul style="list-style-type: none">• 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 475875

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 475875
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Prerequisites <i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i>	
Incident Well	Unavailable.
Incident Facility	[fAPP2126659618] MESA VERDE 18 CTB

Determination of Reporting Requirements <i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
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.
<i>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.</i>	
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 within 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	Emergency Flare > Third Party Energy Power Provider > Xcel Energy > Power Outage > Jumper Loss

Representative Compositional Analysis of Vented or Flared Natural Gas <i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	73
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	3
Oxygen (O2) percentage, if greater than one percent	0
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
Methane (CH4) percentage quality requirement	Not answered.
Nitrogen (N2) percentage quality requirement	Not answered.
Hydrogen Sulfide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (CO2) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 475875

QUESTIONS (continued)

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	Action Number: 475875
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	05/20/2025
Time vent or flare was discovered or commenced	12:47 PM
Time vent or flare was terminated	10:43 PM
Cumulative hours during this event	10

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Other Other (Specify) Natural Gas Flared Released: 105 Mcf Recovered: 0 Mcf Lost: 105 Mcf.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Gas Flow Meter
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	<p>This emission was 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 instance, Xcel Energy, the third-party power provider, encountered operational difficulties resulting in a widespread power outage. The issue was caused by the loss of a jumper, effectively severing a leg of power. This unexpected outage impacted the Mesa Verde area, leading to the backup and flaring of sales gas due to the cessation of all equipment and operations. This event could not have been foreseen, avoided, or prevented as this event occurred with no advance notice or warning from Xcel Energy. Oxy's facility require power to function and when the power goes out, equipment such as pumps, valves, and compressors will stop working, leading to overpressure in critical equipment, which could lead to rupture and/or explosions. OXY made every effort to control and minimize emissions as much as possible during this event and ensured all its operational equipment was slowly brought back to normal operations and running efficiently once power was restored to the facility. Although flaring is not OXY's preferred method for handling excess gas, it is necessary to ensure the safety of our operations, equipment, and field personnel. This event could not have been foreseen, avoided, or prevented as this event occurred with no advance notice or warning. OXY made every effort to control and minimize emissions as much as possible during this event.</p> <p>It is OXY's policy to route its stranded gas to a flare during an unforeseen and unavoidable</p>

Steps taken to limit the duration and magnitude of vent or flare	<p>emergency or malfunction, that is beyond Oxy's control to avoid, prevent or foresee, to minimize emissions as much as possible as part of the overall steps taken to limit duration and magnitude of flaring. The flare at this facility has 98% combustion efficiency to lessen emissions as much as possible. In this instance, Xcel Energy, the third-party power provider, encountered operational difficulties resulting in a widespread power outage. The issue was caused by the loss of a jumper, effectively severing a leg of power. This unexpected outage impacted the Mesa Verde area, leading to the backup and flaring of sales gas due to the cessation of all equipment and operations. This event could not have been foreseen, avoided, or prevented as this event occurred with no advance notice or warning from Xcel Energy. Oxy's facility require power to function and when the power goes out, equipment such as pumps, valves, and compressors will stop working, leading to overpressure in critical equipment, which could lead to rupture and/or explosions. OXY made every effort to control and minimize emissions as much as possible during this event and ensured all its operational equipment was slowly brought back to normal operations and running efficiently once power was restored to the facility. Although flaring is not OXY's preferred method for handling excess gas, it is necessary to ensure the safety of our operations, equipment, and field personnel. As soon as flaring was triggered, Oxy production techs manually choked back all wells in the field to reduce injection and sales gas so that pressure would stay below the flare trigger setpoints of the facility to cease flaring. This flaring situation was beyond OXY's control, yet Oxy took all possible measures to reduce emissions effectively.</p>
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	<p>Oxy is unable to and is limited in the corrective actions to eliminate this type of cause and potential reoccurrence of flaring resulting from third party provider power outages, whether scheduled or unscheduled, as Oxy is unable to decree how long a power outage can continue. Oxy continually strives to maintain and operate all its facility equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events, when possible. Although flaring is not OXY's preferred method for handling excess gas, it is necessary to ensure the safety of our operations, equipment, and field personnel. The only steps Oxy can take during this circumstance is to minimize and cease flaring is by manually choking back all wells until power is restored. Oxy will ensure all its operational equipment is slowly brought back to normal operations and running efficiently once power is restored to the facility so that flaring is ceased.</p>

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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 complete 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

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	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.	6/17/2025