



# Certificate of Analysis

Number: 6030-25091451-001A

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

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

Field:	PERMIAN_RESOURCES	Report Date:	09/29/2025
Station Name:	MESA VERDE CTB CHECK (FMP) -- Meter	Sampled By:	JE
Station Number:	15500C	Sample Of:	Gas
Station Location:	OP-L2109-BT001	Sample Type:	Spot
Sample Point:	Meter	Sample Conditions:	103 psig, @ 76 °F Ambient: 82 °F
Property ID:	FMP/LSE NMNM137096X	Sample Date:	09/23/2025 09:00
Formation:	NEW_MEXICO	Received Date:	09/24/2025
County:		Login Date:	09/24/2025
Well Name:	CTB	Effective Date:	09/01/2025
Type of Sample :	Spot-Cylinder	Flow Rate:	28980 MSCFD
Sampling Company:	:SPL - OXY	Sampling Method:	Purge/Fill
Instrument:	70142339 (Inficon GC-MicroFusion)	Heating Method:	Yes
Last Inst. Cal.:	09/22/2025 0:00 AM	Method:	GPA 2286
Analyzed:	09/26/2025 08:47:06 by CDW	Cylinder No:	9999-005115

## Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia	
Hydrogen Sulfide	0.0000	0.0000	0.0000		GPM TOTAL C2+
Nitrogen	1.4326	1.4228	1.8095		5.788
Carbon Dioxide	2.4798	2.4629	4.9208		
Methane	76.3993	75.8775	55.2620		
Ethane	10.9653	10.8904	14.8664	2.907	
Propane	5.2175	5.1819	10.3735	1.425	
Iso-Butane	0.7629	0.7577	1.9993	0.247	
n-Butane	1.8099	1.7975	4.7430	0.566	
Iso-Pentane	0.4434	0.4404	1.4425	0.161	
n-Pentane	0.4977	0.4943	1.6191	0.179	
Hexanes	0.3081	0.3060	1.1971	0.126	
Heptanes	0.2486	0.2469	1.1232	0.114	
Octanes	0.1028	0.1021	0.5295	0.052	
Nonanes Plus	0.0197	0.0196	0.1141	0.011	
	<u>100.6876</u>	<u>100.0000</u>	<u>100.0000</u>	<u>5.788</u>	

<b>Calculated Physical Properties</b>	<b>Total</b>	<b>C9+</b>
Calculated Molecular Weight	22.03	128.26
Compressibility Factor	0.9962	
Relative Density Real Gas	0.7631	4.4283
<b>GPA 2172 Calculation:</b>		
<b>Calculated Gross BTU per ft³ @ 14.65 psia &amp; 60°F</b>		
Real Gas Dry BTU	1246.9	6974.4
Water Sat. Gas Base BTU	1225.6	6852.4
Ideal, Gross HV - Dry	1242.2	6948.0
Ideal, Gross HV - Wet	1220.4	6823.6

**Comments:** H2S Field Content: 0 %

*Mostaq Ahamed*

Petroleum Chemist

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

**UPSET VENTING EVENT SPECIFIC JUSTIFICATIONS FORM****Facility Id#** fAPP2126659618**Facility:** Mesa Verde 18 CTB**Duration of Event:** 24 Hours**Start Time:** 12:00 AM**Cause:** Equipment Malfunctions > Control Valve & Automation Issues > Flash Gas**Method of Flared Gas Measurement:** Allocated Calculation**Operator:** OXY USA, Inc.**Vent Date:** 05/16/2026**MCF Vented:** 140**End Time:** 11:59 PM**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. This facility is unmanned, except when OXY production techs are gathering data daily or conduct daily walk-throughs to ensure that there are no problems, circumstances and/or assist other personnel on-site for maintenance purposes. The venting leak was identified during an internal drone flyover survey on May 18, 2026. The survey detected flash gas venting from the water tanks and no flow to the VCU. The lack of flow resulted from the battery management system entering a faulty status because of control valve and dump automation logic issues, which routed oil to the water tanks. Based on the available evidence, venting appears to have begun on or around May 15, 2026, due to this unexpected malfunction. After OXY's Operations team was notified of the leak on May 18, 2026, an emissions technician was dispatched to verify the finding with a FLIR camera and confirmed that venting was occurring. OXY then dispatched an automation technician and production technicians to troubleshoot and resolve the malfunction. Although the event was beyond OXY's control, OXY took all available measures to reduce emissions promptly and effectively.

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

This facility is unmanned, except when OXY production techs are gathering data daily or conduct daily walk-throughs to ensure that there are no problems, circumstances and/or assist other personnel on-site for maintenance purposes. The venting leak was identified during an internal drone flyover survey on May 18, 2026. The survey detected flash gas venting from the water tanks and no flow to the VCU. The lack of flow resulted from the battery management system entering a faulty status because of control valve and dump automation logic issues, which routed oil to the water tanks. Based on the available evidence, venting appears to have begun on or around May 15, 2026, due to this unexpected malfunction. After OXY's Operations team was notified of the leak on May 18, 2026, an emissions technician was dispatched to verify the finding with a FLIR camera and confirmed that venting was occurring. OXY then dispatched an automation technician and production technicians to troubleshoot and resolve the malfunction. Although the event was beyond OXY's control, OXY took all available measures to reduce emissions promptly and effectively.

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

Oxy is limited in the corrective actions available to them to eliminate the cause and potential reoccurrence of these types of venting malfunctions, as notwithstanding process design and operation, compressors are inherently dynamic and even the smallest alarms, false or true, can be sudden, reasonably unforeseeable and unexpected which can cause malfunctions to occur. 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. Oxy has a strong and positive equipment preventative maintenance program in place.

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 591795

**DEFINITIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 591795
	Action Type: [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 591795

**QUESTIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 591795
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<b>Prerequisites</b>	
<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

<b>Determination of Reporting Requirements</b>	
<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 <b>at least 50 MCF</b> 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 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

<b>Equipment Involved</b>	
Primary Equipment Involved	Other (Specify)
Additional details for Equipment Involved. Please specify	Equipment Malfunctions > Control Valve & Automation Issues > Flash Gas

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b>	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	76
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	2
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 591795

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 591795
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	05/16/2026
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	24

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Equipment Failure   Water Tank   Natural Gas Vented   Released: 140 Mcf   Recovered: 0 Mcf   Lost: 140 Mcf.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Allocated Vent 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 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. This facility is unmanned, except when OXY production techs are gathering data daily or conduct daily walk-throughs to ensure that there are no problems, circumstances and/or assist other personnel on-site for maintenance purposes. The venting leak was identified during an internal drone flyover survey on May 18, 2026. The survey detected flash gas venting from the water tanks and no flow to the VCU. The lack of flow resulted from the battery management system entering a faulty status because of control valve and dump automation logic issues, which routed oil to the water tanks. Based on the available evidence, venting appears to have begun on or around May 15, 2026, due to this unexpected malfunction. After OXY's Operations team was notified of the leak on May 18, 2026, an emissions technician was dispatched to verify the finding with a FLIR camera and confirmed that venting was occurring. OXY then dispatched an automation technician and production technicians to troubleshoot and resolve the malfunction. Although the event was beyond OXY's control, OXY took all available measures to reduce emissions promptly and effectively.
	This facility is unmanned, except when OXY production techs are gathering data daily or conduct daily walk-throughs to ensure that there are no problems, circumstances and/or assist other personnel on-site for maintenance purposes. The venting leak was identified

<p>Steps taken to limit the duration and magnitude of vent or flare</p>	<p>during an internal drone flyover survey on May 18, 2026. The survey detected flash gas venting from the water tanks and no flow to the VCU. The lack of flow resulted from the battery management system entering a faulty status because of control valve and dump automation logic issues, which routed oil to the water tanks. Based on the available evidence, venting appears to have begun on or around May 15, 2026, due to this unexpected malfunction. After OXY's Operations team was notified of the leak on May 18, 2026, an emissions technician was dispatched to verify the finding with a FLIR camera and confirmed that venting was occurring. OXY then dispatched an automation technician and production technicians to troubleshoot and resolve the malfunction. Although the event was beyond OXY's control, OXY took all available measures to reduce emissions promptly and effectively.</p>
<p>Corrective actions taken to eliminate the cause and reoccurrence of vent or flare</p>	<p>Oxy is limited in the corrective actions available to them to eliminate the cause and potential reoccurrence of these types of venting malfunctions, as notwithstanding process design and operation, compressors are inherently dynamic and even the smallest alarms, false or true, can be sudden, reasonably unforeseeable and unexpected which can cause malfunctions to occur. 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. Oxy has a strong and positive equipment preventative maintenance program in place.</p>

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ACKNOWLEDGMENTS

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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 <b>complete</b> 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

Action 591795

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	Action Number: 591795
	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.	6/3/2026