



# 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*  
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 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 Malfunction > Third Party Owned Compressor > Skid Compression > Faulty Pressure Relief Valve Seal

**Operator:** OXY USA, Inc.

**Vent Date:** 05/16/2026

**MCF Vented:** 140

**End Time:** 11:59 PM

**Method of Flared 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. This facility is unmanned, except when OXY production techs are gathering data daily or conducting daily walk-throughs to ensure that there are no problems, circumstances and/or assist other personnel on-site for maintenance purposes. This venting leak event occurred due to an unforeseen malfunction of a pressure relief valve that did not seal on a skid compression unit, owned and maintained by NGSG Compression Group. Upon discovering the venting leak during a recent drone flyover survey, OXY operations and field personnel swiftly identified and halted the venting by immediately shutting down the malfunctioning compression unit. This unit will remain inactive until NGSG can troubleshoot and resolve the issue with the pressure relief valve seal. Despite facility routine checks by field personnel at various times, this venting issue was not identified or able to be detected during their facility inspections. This event is out of OXY's control yet OXY made every effort to control and minimize emissions as much as possible.

### 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. This facility is unmanned, except when OXY production techs are gathering data daily or conducting daily walk-throughs to ensure that there are no problems, circumstances and/or assist other personnel on-site for maintenance purposes. This venting leak event occurred due to an unforeseen malfunction of a pressure relief valve that did not seal on a skid compression unit, owned and maintained by NGSG Compression Group. Upon discovering the venting leak during a recent drone flyover survey, OXY operations and field personnel swiftly identified and halted the venting by immediately shutting down the malfunctioning compression unit. This unit will remain inactive until NGSG can troubleshoot and resolve the issue with the pressure relief valve seal. Despite facility routine checks by field personnel at various times, this venting issue was not identified or able to be detected during their facility inspections. 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 is limited in the corrective actions available to them to eliminate the cause and potential reoccurrence of compressor malfunctions from third party owned equipment, as notwithstanding compressor engine 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 compression malfunctions to occur, thereby, triggering the unit's sensors to automatically shut down the unit to avoid catastrophic damage to the internal engine components. 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. In such situations, OXY's sole course of action is to collaborate with the third-party compression owner to address and resolve the malfunction issues as promptly as feasible.

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 590159

**DEFINITIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 590159
	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 590159

**QUESTIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 590159
	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 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

<b>Equipment Involved</b>	
Primary Equipment Involved	Other (Specify)
Additional details for Equipment Involved. Please specify	Equipment Malfunction > Third Party Owned Compressor > Skid Compression > Faulty Pressure Relief Valve Seal

<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 590159

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 590159
	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   Valve   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 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. OXY engages in respectable and good facility operation practices while also maintaining its continuous facility equipment preventative maintenance program. This facility is unmanned, except when OXY production techs are gathering data daily or conducting daily walk-throughs to ensure that there are no problems, circumstances and/or assist other personnel on-site for maintenance purposes. This venting leak event occurred due to an unforeseen malfunction of a pressure relief valve that did not seal on a skid compression unit, owned and maintained by NGSG Compression Group. Upon discovering the venting leak during a recent drone flyover survey, OXY operations and field personnel swiftly identified and halted the venting by immediately shutting down the malfunctioning compression unit. This unit will remain inactive until NGSG can troubleshoot and resolve the issue with the pressure relief valve seal. Despite facility routine checks by field personnel at various times, this venting issue was not identified or able to be detected during their facility inspections. This event is out of OXY's control yet OXY made every effort to control and minimize emissions as much as possible.
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<p>Steps taken to limit the duration and magnitude of vent or flare</p>	<p>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. This facility is unmanned, except when OXY production techs are gathering data daily or conducting daily walk-throughs to ensure that there are no problems, circumstances and/or assist other personnel on-site for maintenance purposes. This venting leak event occurred due to an unforeseen malfunction of a pressure relief valve that did not seal on a skid compression unit, owned and maintained by NGSG Compression Group. Upon discovering the venting leak during a recent drone flyover survey, OXY operations and field personnel swiftly identified and halted the venting by immediately shutting down the malfunctioning compression unit. This unit will remain inactive until NGSG can troubleshoot and resolve the issue with the pressure relief valve seal. Despite facility routine checks by field personnel at various times, this venting issue was not identified or able to be detected during their facility inspections. This event is out of OXY's control yet OXY made every effort to control and minimize emissions as much as possible.</p>
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ACKNOWLEDGMENTS

Action 590159

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	Action Number: 590159
	Action Type: [C-129] Venting and/or Flaring (C-129)

**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 590159

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	Action Number: 590159
	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.	5/31/2026