



## 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<br>Mol % | Mol. %   | Wt. %    | GPM at<br>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                |               |
|                  | 100.6876               | 100.0000 | 100.0000 | 5.788                |               |

|                                                             |              |            |
|-------------------------------------------------------------|--------------|------------|
| <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 %

*Mostafa Ahmmed*

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 FLARING EVENT SPECIFIC JUSTIFICATIONS FORM****Facility Id#** fAPP2126659618**Facility:** Mesa Verde 18 CTB**Duration of Event:** 1 Hour**Start Time:** 03:00 PM**Cause:** Emergency Flare > Multiple Compressor Equipment Issues**Method of Flared Gas Measurement:** Gas Flare Meter**Operator:** OXY USA, Inc.**Flare Date:** 08/14/2026**MCF Flared:** 196**End Time:** 04:00 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 OXY'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. In this case, sudden, simultaneous compressor equipment malfunctions at the facility caused repeated high field pressure, resulting in several brief, intermittent flaring events in a 24-hour period. This event is beyond OXY's control as notwithstanding compressor engine design and operation, compressors are inherently dynamic and even the smallest alarms, whether 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's field and operations teams diligently oversee the facility and field pressure to swiftly identify any deviations from accepted standard operational parameters. Flaring is implemented as an essential safety protocol to manage excess gas resulting from operational disruptions caused by third-party downstream operators. This critical safety process allows us to control facility overpressure, safely combust excess gas, and mitigate potential risks including equipment damage, leaks, or explosions, thereby ensuring the protection of our operations, equipment, and field personnel. OXY's operations and facility equipment were operating normally and at full capacity prior to this event occurring. This event transpired outside of OXY's control; however, OXY has comprehensive strategies to effectively manage and minimize emissions to the fullest extent possible.

**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. 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. Internal OXY procedures ensure that upon unexpected emergency compressor equipment shutdowns, production technicians are instructed to assess the issue as soon as possible in order to take prompt corrective action to resolve the issue. OXY production technicians must assess whether a compressor unit shutdown is due to damage and immediate repair is needed, or whether there are other reasons for its cause. In this case, sudden, simultaneous compressor equipment malfunctions at the facility caused repeated high field pressure, resulting in several brief, intermittent flaring events in a 24-hour period. This event is beyond OXY's control as notwithstanding compressor engine design and operation, compressors are inherently dynamic and even the smallest alarms, whether 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. Flaring is implemented as an essential safety protocol to manage excess gas resulting from operational disruptions caused by third-party downstream operators. This critical safety process allows us

to control facility overpressure, safely combust excess gas, and mitigate potential risks including equipment damage, leaks, or explosions, thereby ensuring the protection of our operations, equipment, and field personnel. OXY's operations and facility equipment were operating normally and at full capacity before the event. This event transpired outside of OXY's control; however, OXY has comprehensive strategies to effectively manage and minimize emissions to the fullest extent possible.

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

OXY's corrective actions to address unexpected compressor unit shutdowns caused by engine malfunction faults are limited. Regardless of compressor engine design and operation, compressors exhibit dynamic behavior—whether accurate or false—can occur abruptly and may not always be foreseeable, potentially resulting in sudden and unexpected compression malfunctions. This may activate sensors or trigger signals that initiate an automatic shutdown of the unit to prevent severe or catastrophic internal engine damage. Additionally, NGSG Compression, the owner of these units, is responsible for preventative maintenance and is the only authorized party to implement corrective measures aimed at addressing recurring issues such as these, if possible. The only actions OXY and its personnel can take is to consistently communicate and work with NGSG Compression and its personnel to ensure that the compressor units are maintained in a good working manner and its preventative maintenance work is completed timely. 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.

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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 618987

**DEFINITIONS**

|                                                                    |                                                        |
|--------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>OXY USA INC<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>16696                                        |
|                                                                    | Action Number:<br>618987                               |
|                                                                    | Action Type:<br>[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"><li>• this application's operator, hereinafter "this operator";</li><li>• venting and/or flaring, hereinafter "vent or flare";</li><li>• any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";</li><li>• the statements in (and/or attached to) this, hereinafter "the statements in this";</li><li>• and the past tense will be used in lieu of mixed past/present tense questions and statements.</li></ul> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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QUESTIONS

Action 618987

**QUESTIONS**

|                                                                    |                                                        |
|--------------------------------------------------------------------|--------------------------------------------------------|
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|                                                                    | Action Number:<br>618987                               |
|                                                                    | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

**QUESTIONS**

|                                                                                                                                                                                                   |                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Prerequisites</b><br><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><br><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                                                                                                                                                                                 | No                                                |
| 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 | Emergency Flare > Multiple Compressor Equipment Issues |

|                                                                                                                                                                    |               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Representative Compositional Analysis of Vented or Flared Natural Gas</b><br><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 618987

**QUESTIONS (continued)**

|                                                                    |                                                        |
|--------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>OXY USA INC<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>16696                                        |
|                                                                    | Action Number:<br>618987                               |
|                                                                    | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

**QUESTIONS**

| Date(s) and Time(s)                            |            |
|------------------------------------------------|------------|
| Date vent or flare was discovered or commenced | 08/14/2026 |
| Time vent or flare was discovered or commenced | 03:00 PM   |
| Time vent or flare was terminated              | 04:00 PM   |
| Cumulative hours during this event             | 1          |

| Measured or Estimated Volume of Vented or Flared Natural Gas              |                                                                                                                         |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Natural Gas Vented (Mcf) Details                                          | Not answered.                                                                                                           |
| Natural Gas Flared (Mcf) Details                                          | Cause: Equipment Failure   Other (Specify)   Natural Gas Flared   Released: 196 Mcf   Recovered: 0 Mcf   Lost: 196 Mcf. |
| Other Released Details                                                    | Not answered.                                                                                                           |
| Additional details for Measured or Estimated Volume(s). Please specify    | Gas Flare 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                                                      | This emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable breakdown of equipment or process that was beyond OXY'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. |
| Steps taken to limit the duration and magnitude of vent or flare                                                                 | 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.                                                                                             |
| Corrective actions taken to eliminate the cause and reoccurrence of vent or flare                                                | OXY's corrective actions to address unexpected compressor unit shutdowns caused by engine malfunction faults are limited.                                                                                                                                                                                                           |



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ACKNOWLEDGMENTS

Action 618987

**ACKNOWLEDGMENTS**

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|                                                                    | 16696                                                  |
|                                                                    | Action Number:<br>618987                               |
|                                                                    | Action Type:<br>[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 618987

CONDITIONS

|                                                                    |                                                        |
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|                                                                    | Action Number:<br>618987                               |
|                                                                    | Action Type:<br>[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. | 8/30/2026      |