



## Certificate of Analysis

Number: 6030-24010190-001A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

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

Jan. 18, 2024

Field: PERMIAN\_RESOURCES  
Station Name: Falcon Ridge CGL Check  
Station Number: 16920C  
Station Location: OP-L3821-CS001  
Sample Point: Meter  
Formation: NEW\_MEXICO  
County: Lea  
Well Name: CDP  
Type of Sample: : Spot-Cylinder  
Heat Trace Used: N/A  
Sampling Method: : Fill and Purge  
Sampling Company: :SPL

Sampled By: Roberto Andrade  
Sample Of: Gas Spot  
Sample Date: 01/16/2024 01:45  
Sample Conditions: 1212.9 psig, @ 93.1 °F Ambient: 25 °F  
Effective Date: 01/16/2024 01:45  
Flow Rate: 9433.446 MSCFD  
Method: GPA-2261M  
Cylinder No: 1111-007142  
Instrument: 70104251 (Inficon GC-MicroFusion)  
Last Inst. Cal.: 01/15/2024 0:00 AM  
Analyzed: 01/17/2024 12:26:56 by EBH

## Analytical Data

| Components       | Un-normalized<br>Mol % | Mol. %   | Wt. %    | GPM at<br>14.65 psia |
|------------------|------------------------|----------|----------|----------------------|
| Hydrogen Sulfide | 0.0000                 | 0.0000   | 0.0000   |                      |
| Nitrogen         | 1.2630                 | 1.2839   | 1.5206   |                      |
| Carbon Dioxide   | 1.0472                 | 1.0645   | 1.9807   |                      |
| Methane          | 68.8088                | 69.9451  | 47.4405  |                      |
| Ethane           | 12.6002                | 12.8083  | 16.2829  | 3.422                |
| Propane          | 8.8294                 | 8.9752   | 16.7325  | 2.470                |
| Iso-Butane       | 1.2093                 | 1.2293   | 3.0208   | 0.402                |
| n-Butane         | 2.8878                 | 2.9355   | 7.2135   | 0.924                |
| Iso-Pentane      | 0.6543                 | 0.6651   | 2.0288   | 0.243                |
| n-Pentane        | 0.5769                 | 0.5864   | 1.7887   | 0.212                |
| Hexanes          | 0.2932                 | 0.2980   | 1.0857   | 0.122                |
| Heptanes         | 0.1717                 | 0.1745   | 0.7393   | 0.080                |
| Octanes          | 0.0323                 | 0.0328   | 0.1584   | 0.017                |
| Nonanes Plus     | 0.0014                 | 0.0014   | 0.0076   | 0.001                |
|                  | 98.3755                | 100.0000 | 100.0000 | 7.893                |

| Calculated Physical Properties | Total  | C9+    |
|--------------------------------|--------|--------|
| Calculated Molecular Weight    | 23.65  | 128.26 |
| Compressibility Factor         | 0.9954 |        |
| Relative Density Real Gas      | 0.8201 | 4.4283 |

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.65 psia & 60°F

|                                     |        |        |
|-------------------------------------|--------|--------|
| Real Gas Dry BTU                    | 1372.7 | 6974.4 |
| Water Sat. Gas Base BTU             | 1349.3 | 6852.4 |
| Ideal, Gross HV - Dry at 14.65 psia | 1366.4 | 6974.4 |
| Ideal, Gross HV - Wet               | 1342.5 | 6852.4 |

Comments: H2S Field Content 0 ppm  
FMP/LSE N/A, WO#4001595465

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#** fAPP2333082512**Operator:** OXY USA, Inc.**Facility:** Falcon Ridge Tankless CGL**Flare Date:** 05/29/2025**Duration of Event:** 6 Hours 18 Minutes**MCF Flared:** 161**Start Time:** 04:42 PM**End Time:** 11:00 PM**Cause:** Emergency Flare > Multiple Compression Equipment Issues**Method of Flared Gas Measurement:** Gas Flare Meter

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**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 case, there was a sudden and simultaneous unexpected compression equipment malfunction, due to extreme lightning and stormy weather, which in turn, caused power surges to occur, which then triggered a flaring event to occur. 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 is out of OXY's control yet OXY made every effort to control and minimize emissions as much as possible. Event duration and volume is a combined total of all brief intermittent flaring occurrences in a 24-hour period.

**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. In this case, there was a sudden and simultaneous unexpected compression equipment malfunction, due to extreme lightning and stormy weather, which in turn, caused power surges to occur, which then triggered a flaring event to occur. 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. Notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. Compressor engines are designed to operate in a precise manner and when malfunctions occur, it disrupts the compression unit's operating manner and robs the compression engine of power, thus, causing an automatic shutdown of the unit. The occurrence of this event was beyond OXY's control. OXY took all possible measures to manage and reduce emissions to the greatest extent.

**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 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.

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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 499386

DEFINITIONS

|                                                                        |                                                                   |
|------------------------------------------------------------------------|-------------------------------------------------------------------|
| Operator:<br><br>OXY USA INC<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br><br>16696                                               |
|                                                                        | Action Number:<br><br>499386                                      |
|                                                                        | Action Type:<br><br>[C-129] Amend Venting and/or Flaring (C-129A) |

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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**Santa Fe, NM 87505**

QUESTIONS

Action 499386

**QUESTIONS**

|                                                                    |                                                               |
|--------------------------------------------------------------------|---------------------------------------------------------------|
| Operator:<br>OXY USA INC<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>16696                                               |
|                                                                    | Action Number:<br>499386                                      |
|                                                                    | Action Type:<br>[C-129] Amend Venting and/or Flaring (C-129A) |

**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 ID (n#)                                                                                                                                                                                         | Unavailable.                         |
| Incident Name                                                                                                                                                                                            | Unavailable.                         |
| Incident Type                                                                                                                                                                                            | Flare                                |
| Incident Status                                                                                                                                                                                          | Unavailable.                         |
| Incident Facility                                                                                                                                                                                        | [fAPP2333082512] Falcon Ridge CGL CS |
| <i>Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section) that are assigned to your current operator can be amended with this C-129A application.</i> |                                      |

|                                                                                                                                                                                                                                                                                            |                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <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                                                                                                                                                                                 | 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 Compression Equipment Issues |

|                                                                                                                                      |    |
|--------------------------------------------------------------------------------------------------------------------------------------|----|
| <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                                                                                                             | 70 |
| 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                                                                         | 1  |
| 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                                                                                         | 0  |
| Nitrogen (N2) percentage quality requirement                                                                                         | 0  |
| Hydrogen Sulfide (H2S) PPM quality requirement                                                                                       | 0  |
| Carbon Dioxide (CO2) percentage quality requirement                                                                                  | 0  |
| Oxygen (O2) percentage quality requirement                                                                                           | 0  |

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QUESTIONS, Page 2

Action 499386

**QUESTIONS (continued)**

|                                                                    |                                                               |
|--------------------------------------------------------------------|---------------------------------------------------------------|
| Operator:<br>OXY USA INC<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>16696                                               |
|                                                                    | Action Number:<br>499386                                      |
|                                                                    | Action Type:<br>[C-129] Amend Venting and/or Flaring (C-129A) |

**QUESTIONS**

| Date(s) and Time(s)                            |            |
|------------------------------------------------|------------|
| Date vent or flare was discovered or commenced | 05/29/2025 |
| Time vent or flare was discovered or commenced | 04:42 PM   |
| Time vent or flare was terminated              | 11:00 PM   |
| Cumulative hours during this event             | 6          |

| 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: 161 MCF   Recovered: 0 MCF   Lost: 161 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 | No            |
| Downstream OGRID that should have notified this operator          | 0             |
| Date notified of downstream activity requiring this vent or flare |               |
| 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. In this case, there was a sudden and simultaneous unexpected compression equipment malfunction, due to extreme lightning and stormy weather, which in turn, caused power surges to occur, which then triggered a flaring event to occur. 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 is out of OXY's control yet OXY made every effort to control and minimize emissions as much as possible. Event duration and volume is a combined total of all brief intermittent flaring occurrences in a 24-hour period. |
|                                                                                                                                 | 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. In this case, there was a sudden and simultaneous unexpected compression equipment malfunction, due to extreme lightning and stormy weather, which in turn, caused power surges to occur, which then triggered a flaring event to occur. Although                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Steps taken to limit the duration and magnitude of vent or flare                  | 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. Notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. Compressor engines are designed to operate in a precise manner and when malfunctions occur, it disrupts the compression unit's operating manner and robs the compression engine of power, thus, causing an automatic shutdown of the unit. The occurrence of this event was beyond OXY's control. OXY took all possible measures to manage and reduce emissions to the greatest extent.   |
| Corrective actions taken to eliminate the cause and reoccurrence of vent or flare | Oxy is limited in the corrective actions available to them to eliminate the cause and potential reoccurrence of compressor malfunctions 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. |

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ACKNOWLEDGMENTS

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**ACKNOWLEDGMENTS**

|                                     |                                                                                                                                                                                                                                                                                                     |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | I acknowledge that with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.28 NMAC.                                                                                                                |
| <input checked="" type="checkbox"/> | I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record.                                                                                 |
| <input checked="" type="checkbox"/> | I hereby certify the statements in this amending 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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|                                                                    |                                                               |
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CONDITIONS

| Created By    | Condition                                                                                                                                                                                  | Condition Date |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| shelbyschoepf | If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event. | 8/26/2025      |