# Certificate of Analysis

Number: 6030-25030656-001A

**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: | 04/07/2025 |
| Station Name: | Lost Tank 5 CPF Production 2 | Sampled By: | Scot |
| Station Number: | 118611 | Sample Of: | Gas |
| Station Location: | OP-DELNE-BT011 | Sample Type: | Spot |
| Sample Point: | Meter | Sample Conditions: | 105.3 psig, @ 100.5 °F Ambient: 66 °F |
| Property ID: | FMP/LSE N/A | Sample Date: | 03/28/2025 08:27 |
| Formation: | NEW_MEXICO | Received Date: | 03/31/2025 |
| County: | | Login Date: | 03/31/2025 |
| Well Name: | CTB | Effective Date: | 04/01/2025 |
| Type of Sample: : | Spot-Cylinder | Flow Rate: | 18646 MSCFD |
| Sampling Company: : | OXY | Sampling Method: | |
| Heat Trace Used: | N/A | Heating Method: | |
| Sampling Method: | Purge and Fill | Method: | GPA-2261M |
| Last Inst. Cal.: | 03/31/2025 0:00 AM | Cylinder No: | 9999-005161 |
| Analyzed: | 04/03/2025 11:24:27 by CDW | Instrument: | 70142339 (Inficon GC-MicroFusion) |

## Analytical Data

| Components | Un-normalized Mol % | Mol. % | Wt. % | GPM at 14.73 psia |
|---|---|---|---|---|
| Hydrogen Sulfide | 0.0000 | 0.0003 | 0.0004 | |
| Nitrogen | 1.6592 | 1.6393 | 1.9223 | |
| Carbon Dioxide | 0.1423 | 0.1406 | 0.2590 | |
| Methane | 70.8415 | 69.9905 | 47.0021 | |
| Ethane | 14.1849 | 14.0145 | 17.6402 | 3.765 |
| Propane | 7.7047 | 7.6122 | 14.0512 | 2.107 |
| Iso-Butane | 1.0015 | 0.9895 | 2.4075 | 0.325 |
| n-Butane | 2.7979 | 2.7643 | 6.7257 | 0.875 |
| Iso-Pentane | 0.6647 | 0.6567 | 1.9834 | 0.241 |
| n-Pentane | 0.8089 | 0.7992 | 2.4137 | 0.291 |
| Hexanes | 0.6459 | 0.6381 | 2.3019 | 0.264 |
| Heptanes | 0.5758 | 0.5689 | 2.3863 | 0.264 |
| Octanes | 0.1583 | 0.1564 | 0.7479 | 0.080 |
| Nonanes Plus | 0.0298 | 0.0295 | 0.1584 | 0.017 |
| | 101.2154 | 100.0000 | 100.0000 | 8.229 |

| **Calculated Physical Properties** | **Total** | **C9+** |
|---|---|---|
| Calculated Molecular Weight | 23.89 | 128.26 |
| Compressibility Factor | 0.9952 | |
| Relative Density Real Gas | 0.8285 | 4.4283 |
| **GPA 2172 Calculation:** | | |
| **Calculated Gross BTU per ft³ @ 14.73 psia & 60°F** | | |
| Real Gas Dry BTU | 1410.6 | 7012.5 |
| Water Sat. Gas Base BTU | 1386.7 | 6890.4 |
| Ideal, Gross HV - Dry at 14.73 psia | 1403.8 | 6978.9 |
| Ideal, Gross HV - Wet | 1379.4 | 6854.3 |

**Comments:** H2S Field Content: 2.5 ppm

Mostafa Ahmadi

Hydrocarbon Laboratory Manager

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#** fAPP2410600153

**Operator:** OXY USA, Inc.

**Facility:** Lost Tank 5 CPF

**Flare Date:** 06/02/2025

**Duration of Event:** 2 Hours

**MCF Flared:** 360

**Start Time:** 12:00 PM

**End Time:** 02:00 PM

**Cause:** Emergency Flare > Well Surges

**Method of Flared Gas Measurement:** Gas Flare Meter

## 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 situation, gas had to be flared instead of being compressed due to several wells flowing to the facility began surging more gas than the compression equipment could manage. Consequently, OXY directed the excess sales gas to a flare to minimize emissions as effectively as possible. This type of flaring is unpredictable and unavoidable, as wells surge intermittently, beyond OXY's control. However, OXY made extensive efforts to regulate and reduce emissions as much as practicable. OXY routed all the stranded sales gas to a flare with a 98% combustion efficiency in order to minimize emissions as much as possible. Although flaring is not OXY's preferred method for handling excess gas, it is necessary to ensure the safety of our operations, equipment, and field personnel. The duration and volume of this flaring event is a combination of multiple intermittent flaring instances within 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. The flare at this facility has a 98% combustion efficiency to lessen emissions as much as possible. In this situation, gas had to be flared instead of being compressed due to several wells flowing to the facility began surging more gas than the compression equipment could manage. Consequently, OXY directed the excess sales gas to a flare to minimize emissions as effectively as possible. This type of flaring is unpredictable and unavoidable, as wells surge intermittently, beyond OXY's control. However, OXY made extensive efforts to regulate and reduce emissions as much as practicable. OXY routed all the stranded sales gas to a flare with a 98% combustion efficiency in order to minimize emissions as much as possible. Although flaring is not OXY's preferred method for handling excess gas, it is necessary to ensure the safety of our operations, equipment, and field personnel. As soon as flaring was triggered when wells began surging, production techs, who were on-site, would slowly start choking back several wells in the area with the pressure control valves on the flowlines until the flaring incidents were minimized and subsequently ceased. This type of flaring is unforeseeable and unanticipated as wells surge from time to time, which are out of OXY's control to avoid or prevent from happening, 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:**

This flaring event was unforeseeable and unanticipated, as wells can surge intermittently, which is beyond OXY's control to prevent. OXY endeavored to manage and reduce emissions to the greatest extent possible. Continuous communication and adjustments were made by OXY production technicians to the compression equipment; however, these adjustments are not immediate due to the time required for compressors to increase their speed, similar to how vehicle engines do not instantly accelerate from 0 to 100 mph. Adjustments were already being implemented, and as the compression increased to accommodate the well surges and/or wells were adjusted to reduce output, each instance of intermittent flaring was minimized.

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

| | |
|---|---|
| Operator:<br>OXY USA INC<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>16696 |
| | Action Number:<br>476092 |
| | Action Type:<br>[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.

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

QUESTIONS

Action 476092

## QUESTIONS

| | |
|---|---|
| Operator:<br>OXY USA INC<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>16696 |
| | Action Number:<br>476092 |
| | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

**QUESTIONS**

| **Prerequisites** | |
|---|---|
| *Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.* | |
| Incident Well | *Unavailable.* |
| Incident Facility | **[fAPP2410600153] Lost Tank 5 Tankless CPF** |

| **Determination of Reporting Requirements** | |
|---|---|
| *Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide addional guidance.* | |
| 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.** |
| *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.* | |
| 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 withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence | No |

| **Equipment Involved** | |
|---|---|
| Primary Equipment Involved | Other (Specify) |
| Additional details for Equipment Involved. Please specify | Emergency Flare > Well Surges |

| **Representative Compositional Analysis of Vented or Flared Natural Gas** | |
|---|---|
| *Please provide the mole percent for the percentage questions in this group.* | |
| Methane (CH4) percentage | 70 |
| Nitrogen (N2) percentage, if greater than one percent | 2 |
| Hydrogen Sulfide (H2S) PPM, rounded up | 3 |
| Carbon Dioxide (C02) percentage, if greater than one percent | 0 |
| Oxygen (02) percentage, if greater than one percent | 0 |
| *If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.* | |
| Methane (CH4) percentage quality requirement | *Not answered.* |
| Nitrogen (N2) percentage quality requirement | *Not answered.* |
| Hydrogen Sufide (H2S) PPM quality requirement | *Not answered.* |
| Carbon Dioxide (C02) percentage quality requirement | *Not answered.* |
| Oxygen (02) percentage quality requirement | *Not answered.* |

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



## QUESTIONS (continued)

| | |
|---|---|
| Operator:<br>OXY USA INC<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>16696 |
| | Action Number:<br>476092 |
| | 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 | 06/02/2025 |
| Time vent or flare was discovered or commenced | 12:00 PM |
| Time vent or flare was terminated | 02:00 PM |
| Cumulative hours during this event | 2 |

| **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: 360 Mcf \| Recovered: 0 Mcf \| Lost: 360 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 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 situation, gas had to be flared instead of being compressed due to several wells flowing to the facility began surging more gas than the compression equipment could manage. Consequently, OXY directed the excess sales gas to a flare to minimize emissions as effectively as possible. This type of flaring is unpredictable and unavoidable, as wells surge intermittently, beyond OXY's control. However, OXY made extensive efforts to regulate and reduce emissions as much as practicable. OXY routed all the stranded sales gas to a flare with a 98% combustion efficiency in order to minimize emissions as much as possible. Although flaring is not OXY's preferred method for handling excess gas, it is necessary to ensure the safety of our operations, equipment, and field personnel. The duration and volume of this flaring event is a combination of multiple intermittent flaring instances within 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. The flare at this facility has a 98% combustion efficiency to lessen |

| | |
|---|---|
| Steps taken to limit the duration and magnitude of vent or flare | emissions as much as possible. In this situation, gas had to be flared instead of being compressed due to several wells flowing to the facility began surging more gas than the compression equipment could manage. Consequently, OXY directed the excess sales gas to a flare to minimize emissions as effectively as possible. This type of flaring is unpredictable and unavoidable, as wells surge intermittently, beyond OXY's control. However, OXY made extensive efforts to regulate and reduce emissions as much as practicable. OXY routed all the stranded sales gas to a flare with a 98% combustion efficiency in order to minimize emissions as much as possible. Although flaring is not OXY's preferred method for handling excess gas, it is necessary to ensure the safety of our operations, equipment, and field personnel. As soon as flaring was triggered when wells began surging, production techs, who were on-site, would slowly start choking back several wells in the area with the pressure control valves on the flowlines until the flaring incidents were minimized and subsequently ceased. This type of flaring is unforeseeable and unanticipated as wells surge from time to time, which are out of OXY's control to avoid or prevent from happening, yet OXY made every effort to control and minimize emissions as much as possible. |
| Corrective actions taken to eliminate the cause and reoccurrence of vent or flare | This flaring event was unforeseeable and unanticipated, as wells can surge intermittently, which is beyond OXY's control to prevent. OXY endeavored to manage and reduce emissions to the greatest extent possible. Continuous communication and adjustments were made by OXY production technicians to the compression equipment; however, these adjustments are not immediate due to the time required for compressors to increase their speed, similar to how vehicle engines do not instantly accelerate from 0 to 100 mph. Adjustments were already being implemented, and as the compression increased to accommodate the well surges and/or wells were adjusted to reduce output, each instance of intermittent flaring was minimized. |

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



## ACKNOWLEDGMENTS

| | |
|---|---|
| Operator:<br>OXY USA INC<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>16696 |
| | Action Number:<br>476092 |
| | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

**ACKNOWLEDGMENTS**

| | |
|---|---|
| ☑ | I acknowledge that I am authorized to submit a *Venting and/or Flaring* (C-129) report on behalf of this operator and understand that this report can be **a complete** C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC. |
| ☑ | 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. |
| ☑ | 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. |
| ☑ | 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. |
| ☑ | 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. |

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

CONDITIONS

Action 476092

## CONDITIONS

| | |
|---|---|
| Operator:<br>OXY USA INC<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>16696 |
| | Action Number:<br>476092 |
| | 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. | 6/17/2025 |