



Certificate of Analysis

Number: 6030-23120311-001A

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. 11, 2024

| | | | |
|-------------------|----------------------|--------------------|-----------------------------------|
| Field: | PERMIAN_RESOURCES | Sampled By: | JE |
| Station Name: | Sand Dunes CTB Check | Sample Of: | Gas Spot |
| Station Number: | 17000C | Sample Date: | 12/28/2023 09:20 |
| Station Location: | OP-L0901-BT002 | Sample Conditions: | 88 psig, @ 68 °F Ambient: 31 °F |
| Sample Point: | Meter | Effective Date: | 12/28/2023 09:20 |
| Formation: | NEW_MEXICO | Flow Rate: | 17996 MSCFD |
| County: | | Method: | GPA-2261M |
| Well Name: | CTB | Cylinder No: | 5030-01063 |
| Type of Sample: | Spot-Cylinder | Instrument: | 70104251 (Inficon GC-MicroFusion) |
| Heat Trace Used: | N/A | Last Inst. Cal.: | 01/09/2024 0:00 AM |
| Sampling Method: | Fill and Purge | Analyzed: | 01/09/2024 08:30:50 by EBH |
| Sampling Company: | OXY | | |

Analytical Data

| Components | Un-normalized Mol % | Mol. % | Wt. % | GPM at 14.65 psia |
|------------------|---------------------|----------|----------|-------------------|
| Hydrogen Sulfide | 0.0000 | 0.0000 | 0.0000 | |
| Nitrogen | 1.2725 | 1.3037 | 1.5990 | |
| Carbon Dioxide | 0.5710 | 0.5850 | 1.1272 | |
| Methane | 70.6744 | 72.4044 | 50.8552 | |
| Ethane | 12.9937 | 13.3118 | 17.5248 | 3.555 |
| Propane | 7.3509 | 7.5308 | 14.5390 | 2.072 |
| Iso-Butane | 0.8677 | 0.8889 | 2.2620 | 0.290 |
| n-Butane | 2.1166 | 2.1684 | 5.5180 | 0.683 |
| Iso-Pentane | 0.4679 | 0.4794 | 1.5143 | 0.175 |
| n-Pentane | 0.5187 | 0.5314 | 1.6786 | 0.192 |
| Hexanes | 0.3367 | 0.3449 | 1.3013 | 0.142 |
| Heptanes | 0.2976 | 0.3049 | 1.3376 | 0.140 |
| Octanes | 0.1258 | 0.1289 | 0.6447 | 0.066 |
| Nonanes Plus | 0.0170 | 0.0175 | 0.0983 | 0.010 |
| | 97.6105 | 100.0000 | 100.0000 | 7.325 |

| Calculated Physical Properties | Total | C9+ |
|--------------------------------|--------|--------|
| Calculated Molecular Weight | 22.84 | 128.26 |
| Compressibility Factor | 0.9957 | |
| Relative Density Real Gas | 0.7917 | 4.4283 |

GPA 2172 Calculation:**Calculated Gross BTU per ft³ @ 14.65 psia & 60°F**

| | | |
|-------------------------------------|--------|--------|
| Real Gas Dry BTU | 1340.5 | 6974.4 |
| Water Sat. Gas Base BTU | 1317.6 | 6852.4 |
| Ideal, Gross HV - Dry at 14.65 psia | 1334.7 | 6974.4 |
| Ideal, Gross HV - Wet | 1311.4 | 6852.4 |

Comments: H2S Field Content 0 ppm
FMP/LSE NM40659

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:** Sand Dunes South Corridor CTB**Flare Date:** 02/10/2024**Duration of Event:** 3 Hours 30 Minutes**MCF Flared:** 216**Start Time:** 12:30 PM**End Time:** 04:00 PM**Cause:** Emergency Flare > Equipment Malfunctions**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 case, the facility was having extreme difficulty operating in its normal manner due to equipment issues, which caused OXY to intermittently flare several times within a 24-Hour period. Oxy is unable to predict, avoid or prevent types of equipment malfunctions from occurring, as they happen suddenly and without warning. This malfunctioning event is out of OXY's control. 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:

It is OXY's policy to route its stranded gas to a flare during an unforeseen and unavoidable emergency or malfunction, as the part of the overall process or steps to take to limit duration and magnitude of flaring. Oxy personnel are in the field 24/7 and can physically see when we are flaring which in turn are communicated to additional Oxy field personnel. Internal OXY procedures ensure that upon notice of flaring, malfunction gas compressor unit and/or multiple unit shutdown alarms, increased sensor line pressure alarms, etc., field production technician personnel are promptly notified, and are instructed to assess the issue as soon as possible to take prompt corrective action and minimize emissions. Oxy production technicians must assess whether the issue or circumstance is due to damage and repair is needed, or whether there are other reasons for its cause. In this case, the facility was having extreme difficulty operating in its normal manner due to equipment issues, which caused OXY to intermittently flare several times within a 24-Hour period. Oxy is unable to predict, avoid or prevent types of equipment malfunctions from occurring, as they happen suddenly and without warning. OXY made every effort to control and minimize emissions as much as possible during this event.

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

Oxy is limited in the corrective actions to eliminate this type of cause and potential reoccurrence of flaring as, various forms of mechanical or technical equipment issues can be sudden, reasonably unforeseeable and unexpected which can cause malfunctions to occur without warning or advance notice. Oxy continually strives to maintain and operate all its facility locations 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. The only actions that Oxy can take and handle that is within its control, is to continue with its equipment preventative maintenance program for all its facilities and continually work with its field personnel to resolve those issues in a timely manner.

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Phone:(575) 393-6161 Fax:(575) 393-0720

District II
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Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

DEFINITIONS

Action 317213

DEFINITIONS

| | |
|---|--|
| Operator: | OGRID: 16696 |
| OXY USA INC P.O. Box 4294 Houston, TX 772104294 | Action Number: 317213 |
| | 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 317213

QUESTIONS

| | |
|--|---|
| Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294 | OGRID: 16696 Action Number: 317213 Action Type: [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 | [fAPP2127048458] Sand Dunes South Corridor CTB |

Determination of Reporting Requirements

Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional 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 within 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 > Equipment Malfunctions |

Representative Compositional Analysis of Vented or Flared Natural Gas

Please provide the mole percent for the percentage questions in this group.

| | |
|--|----|
| Methane (CH4) percentage | 72 |
| 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 |

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 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 317213

QUESTIONS (continued)

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| Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294 | OGRID: 16696 |
| | Action Number: 317213 |
| | Action Type: [C-129] Venting and/or Flaring (C-129) |

QUESTIONS

| Date(s) and Time(s) | |
|--|------------|
| Date vent or flare was discovered or commenced | 02/10/2024 |
| Time vent or flare was discovered or commenced | 12:30 PM |
| Time vent or flare was terminated | 04:00 PM |
| Cumulative hours during this event | 4 |

| Measured or Estimated Volume of Vented or Flared Natural Gas | |
|---|--|
| Natural Gas Vented (Mcf) Details | <i>Not answered.</i> |
| Natural Gas Flared (Mcf) Details | <i>Cause: Other Other (Specify) Natural Gas Flared Released: 216 Mcf Recovered: 0 Mcf Lost: 216 Mcf.</i> |
| Other Released Details | <i>Not answered.</i> |
| 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 | <i>Not answered.</i> |
| Downstream OGRID that should have notified this operator | <i>Not answered.</i> |
| Date notified of downstream activity requiring this vent or flare | <i>Not answered.</i> |
| Time notified of downstream activity requiring this vent or flare | <i>Not answered.</i> |

| 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, the facility was having extreme difficulty operating in its normal manner due to equipment issues, which caused OXY to intermittently flare several times within a 24-Hour period. Oxy is unable to predict, avoid or prevent types of equipment malfunctions from occurring, as they happen suddenly and without warning. This malfunctioning event is out of OXY's control. OXY made every effort to control and minimize emissions as much as possible. |
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ACKNOWLEDGMENTS

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ACKNOWLEDGMENTS

| |
|---|
| <input checked="" type="checkbox"/> I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a complete 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

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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. | 2/25/2024 |