



Certificate of Analysis

Number: 6030-23110129-001A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

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

Nov. 14, 2023

Field: PERMIAN_RESOURCES
Station Name: Falcon Ridge CPF Production #2
Station Number: 16840p
Station Location: OP-L3821-BT001
Sample Point: Meter run
Formation: NEW_MEXICO
County: Lea, NM
Well Name:
Type of Sample: : Spot-Cylinder
Heat Trace Used: N/A
Sampling Method: : Fill and Purge
Sampling Company: :SPL - OXY

Sampled By: Raul Salazar
Sample Of: Gas Spot
Sample Date: 11/13/2023 08:48
Sample Conditions: 109 psig, @ 93.8 °F Ambient: 51 °F
Effective Date: 11/13/2023 08:48
Method: GPA-2261M
Cylinder No: 4030-004290
Instrument: 70104251 (Inficon GC-MicroFusion)
Last Inst. Cal.: 11/06/2023 0:00 AM
Analyzed: 11/14/2023 08:47:52 by EBH
Flow Rate mcf/d:

Analytical Data

| Components | Un-normalized Mol % | Mol. % | Wt. % | GPM at 14.65 psia |
|------------------|------------------------|----------|----------|----------------------|
| Hydrogen Sulfide | 0.0000 | 0.0010 | 0.0015 | |
| Nitrogen | 1.4421 | 1.4865 | 1.8527 | |
| Carbon Dioxide | 0.3635 | 0.3747 | 0.7337 | |
| Methane | 71.8252 | 74.0368 | 52.8427 | |
| Ethane | 12.0641 | 12.4356 | 16.6361 | 3.321 |
| Propane | 6.7642 | 6.9725 | 13.6788 | 1.918 |
| Iso-Butane | 0.7457 | 0.7687 | 1.9878 | 0.251 |
| n-Butane | 1.9680 | 2.0286 | 5.2457 | 0.639 |
| Iso-Pentane | 0.5003 | 0.5157 | 1.6554 | 0.188 |
| n-Pentane | 0.5069 | 0.5225 | 1.6772 | 0.189 |
| Hexanes | 0.3635 | 0.3747 | 1.4366 | 0.154 |
| Heptanes | 0.3195 | 0.3293 | 1.4680 | 0.152 |
| Octanes | 0.1422 | 0.1466 | 0.7450 | 0.075 |
| Nonanes Plus | 0.0066 | 0.0068 | 0.0388 | 0.004 |
| | 97.0118 | 100.0000 | 100.0000 | 6.891 |

Calculated Physical Properties

| | | |
|-----------------------------|--------|--------|
| Calculated Molecular Weight | Total | C9+ |
| | 22.48 | 128.26 |
| Compressibility Factor | 0.9959 | |
| Relative Density Real Gas | 0.7790 | 4.4283 |

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.65 psia & 60°F

| | | |
|-------------------------------------|--------|--------|
| Real Gas Dry BTU | 1322.9 | 6974.4 |
| Water Sat. Gas Base BTU | 1300.3 | 6852.4 |
| Ideal, Gross HV - Dry at 14.65 psia | 1317.5 | 6974.4 |
| Ideal, Gross HV - Wet | 1294.4 | 6852.4 |

Comments: H2S Field Content 10 ppm

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:** Falcon Ridge Tankless CPF**Flare Date:** 12/02/2023**Duration of Event:** 1 Hour 20 Minutes**MCF Flared:** 210**Start Time:** 10:20 PM**End Time:** 11:40 PM**Cause:** Emergency Flare > Compression Equipment Malfunctions > Falcon Ridge CGL**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, several gas compressors at the Falcon Ridge CGL, simultaneously and unexpectedly malfunctioned due to an issue with the fuel gas control valve, which then prompted automatic shutdowns of the units, which in turn caused the field to pressure up, which triggered a flaring event to occur. 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 gas compressor's operating manner and cuts off engine power, which in turn, prompts an automatic shutdown of the unit. Compression malfunctions occur without warning and therefore, Oxy is unable to predict, avoid or prevent this type of equipment malfunction from occurring. This malfunctioning event is out of OXY's control. OXY made every effort to control and minimize emissions as much as possible. Though sudden and unexpected malfunctioning compressor issues occurred at the Falcon Ridge CGL, OXY routed the overflow of stranded gas to flare at the Falcon Ridge CPF to mitigate emissions for this event as the flare at this location can accommodate a higher volume of gas and to protect equipment, environment, and personnel.

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, several gas compressors at the Falcon Ridge CGL, simultaneously and unexpectedly malfunctioned due to an issue with the fuel gas control valve, which then prompted automatic shutdowns of the units, which in turn

caused the field to pressure up, which triggered a flaring event to occur. As soon as flaring began at the CPF, Oxy production techs at the CGL immediately began procedures to determine cause of the compression equipment, which was the fuel gas control valve. Oxy production techs worked on the fuel gas control valve to resolve the issue as quickly and safely as possible. Once the repairs were made, the compression equipment was able to be brought back on-line. 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 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. 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 compression 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 compression equipment preventative maintenance program for all its facilities and continually work with its compression rental owners to resolve those issues in a timely manner, should they continue to occur suddenly and without warning.

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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
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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 295407

DEFINITIONS

| | |
|--|--|
| Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294 | OGRID: 16696 |
| | Action Number: 295407 |
| | 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: <ul style="list-style-type: none">• 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 295407

QUESTIONS

| | |
|--|---|
| Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294 | OGRID: 16696 |
| | Action Number: 295407 |
| | 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 | [fAPP2331575145] Falcon Ridge Tankless CPF |

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 > Compression Equipment Malfunctions > Falcon Ridge CGL |

Representative Compositional Analysis of Vented or Flared Natural Gas

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

| | |
|--|----|
| Methane (CH4) percentage | 74 |
| Nitrogen (N2) percentage, if greater than one percent | 1 |
| Hydrogen Sulfide (H2S) PPM, rounded up | 10 |
| Carbon Dioxide (CO2) percentage, if greater than one percent | 0 |
| 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 295407

QUESTIONS (continued)

| | |
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| Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294 | OGRID: |
| | 16696 |
| | Action Number: |
| | 295407 |
| Action Type: | |
| [C-129] Venting and/or Flaring (C-129) | |

QUESTIONS

| Date(s) and Time(s) | |
|--|------------|
| Date vent or flare was discovered or commenced | 12/02/2023 |
| Time vent or flare was discovered or commenced | 10:20 PM |
| Time vent or flare was terminated | 11:40 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: Other Other (Specify) Natural Gas Flared Released: 250 Mcf Recovered: 0 Mcf Lost: 250 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 | <p>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, several gas compressors at the Falcon Ridge CGL, simultaneously and unexpectedly malfunctioned due to an issue with the fuel gas control valve, which then prompted automatic shutdowns of the units, which in turn caused the field to pressure up, which triggered a flaring event to occur. 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 gas compressor's operating manner and cuts off engine power, which in turn, prompts an automatic shutdown of the unit. Compression malfunctions occur without warning and therefore, Oxy is unable to predict, avoid or prevent this type of equipment malfunction from occurring. This malfunctioning event is out of OXY's control. OXY made every effort to control and minimize emissions as much as possible. Though sudden and unexpected malfunctioning compressor issues occurred at the Falcon Ridge CGL, OXY routed the overflow of stranded gas to flare at the Falcon Ridge CPF to mitigate emissions for</p> |

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| | this event as the flare at this location can accommodate a higher volume of gas and to protect equipment, environment, and personnel. |
| Steps taken to limit the duration and magnitude of vent or flare | <p>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, several gas compressors at the Falcon Ridge CGL, simultaneously and unexpectedly malfunctioned due to an issue with the fuel gas control valve, which then prompted automatic shutdowns of the units, which in turn caused the field to pressure up, which triggered a flaring event to occur. As soon as flaring began at the CPF, Oxy production techs at the CGL immediately began procedures to determine cause of the compression equipment, which was the fuel gas control valve. Oxy production techs worked on the fuel gas control valve to resolve the issue as quickly and safely as possible. Once the repairs were made, the compression equipment was able to be brought back on-line. OXY made every effort to control and minimize emissions as much as possible during this event.</p> |
| Corrective actions taken to eliminate the cause and reoccurrence of vent or flare | <p>Oxy is limited in the corrective actions to eliminate this type of cause and potential reoccurrence of flaring as 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. 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 compression 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 compression equipment preventative maintenance program for all its facilities and continually work with its compression rental owners to resolve those issues in a timely manner, should they continue to occur suddenly and without warning.</p> |

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ACKNOWLEDGMENTS

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|-------------------------------------|---|
| <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

| 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. | 12/17/2023 |