



## Certificate of Analysis

Number: 6030-24010171-001A

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. 17, 2024

|                   |                        |                    |                                   |
|-------------------|------------------------|--------------------|-----------------------------------|
| Field:            | PERMIAN_RESOURCES      | Sampled By:        | Mike Armijo                       |
| Station Name:     | Falcon Ridge CGL(BTEX) | Sample Of:         | Gas Composite                     |
| Station Number:   | N/A                    | Sample Date:       | 01/15/2024 10:15                  |
| Station Location: | Dehy                   | Sample Conditions: | 677 psig, @ 58 °F Ambient: 14 °F  |
| Sample Point:     | Inlet Dehy             | Effective Date:    | 01/15/2024 10:15                  |
| Formation:        | NEW_MEXICO             | Flow Rate:         | N/A                               |
| County:           | Lea                    | Method:            | GPA-2261M                         |
| Well Name:        | N/A                    | Cylinder No:       | 5030-04006                        |
| Type of Sample:   | Spot-Cylinder          | Instrument:        | 70104251 (Inficon GC-MicroFusion) |
| Heat Trace Used:  | N/A                    | Last Inst. Cal.:   | 01/15/2024 0:00 AM                |
| Sampling Method:  | Fill and Purge         | Analyzed:          | 01/16/2024 13:42:44 by EBH        |
| Sampling Company: | SPL                    |                    |                                   |

## Analytical Data

| Components       | Un-normalized<br>Mol % | Mol. %   | Wt. %    | GPM at<br>14.65 psia |
|------------------|------------------------|----------|----------|----------------------|
| Hydrogen Sulfide | 0.0000                 | 0.0000   | 0.0000   |                      |
| Nitrogen         | 1.2966                 | 1.3215   | 1.6634   |                      |
| Carbon Dioxide   | 1.0738                 | 1.0944   | 2.1642   |                      |
| Methane          | 71.6817                | 73.0563  | 52.6616  |                      |
| Ethane           | 12.7892                | 13.0345  | 17.6108  | 3.480                |
| Propane          | 7.5875                 | 7.7330   | 15.3218  | 2.127                |
| Iso-Butane       | 0.8655                 | 0.8821   | 2.3037   | 0.288                |
| n-Butane         | 1.9446                 | 1.9819   | 5.1759   | 0.624                |
| Iso-Pentane      | 0.3698                 | 0.3769   | 1.2219   | 0.138                |
| n-Pentane        | 0.3077                 | 0.3136   | 1.0166   | 0.113                |
| Hexanes          | 0.1225                 | 0.1248   | 0.4832   | 0.051                |
| Heptanes         | 0.0624                 | 0.0636   | 0.2864   | 0.029                |
| Octanes          | 0.0153                 | 0.0156   | 0.0801   | 0.008                |
| Nonanes Plus     | 0.0018                 | 0.0018   | 0.0104   | 0.001                |
|                  | 98.1184                | 100.0000 | 100.0000 | 6.859                |

|                                       |              |            |
|---------------------------------------|--------------|------------|
| <b>Calculated Physical Properties</b> | <b>Total</b> | <b>C9+</b> |
| Calculated Molecular Weight           | 22.26        | 128.26     |
| Compressibility Factor                | 0.9960       |            |
| Relative Density Real Gas             | 0.7712       | 4.4283     |

## GPA 2172 Calculation:

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

|                                     |        |        |
|-------------------------------------|--------|--------|
| Real Gas Dry BTU                    | 1295.7 | 6974.4 |
| Water Sat. Gas Base BTU             | 1273.6 | 6852.4 |
| Ideal, Gross HV - Dry at 14.65 psia | 1290.6 | 6974.4 |
| Ideal, Gross HV - Wet               | 1268.0 | 6852.4 |

**Comments:** H2S Field Content N/A ppm  
FMP/LSE N/A,

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 CGL**Flare Date:** 03/24/2024**Duration of Event:** 2 Hours 24 Minutes**MCF Flared:** 53**Start Time:** 03:40 AM**End Time:** 06:04 AM**Cause:** Emergency Flare > Third Party Downstream Activity > Plains All American > Compressor Station > Power Outage > Emergency Shutdown**Method of Flared Gas Measurement:** Gas Flare Meter

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**1. Reason why this event was beyond Operator's control:**

The emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable interruption, restriction or complete shut-in of a gas pipeline by a third-party pipeline compressor station operator, which impacted Oxy's ability to send gas to them. This interruption, restriction or complete shut-in of the gas pipeline by a third-party pipeline compression station operator is downstream of Oxy's custody transfer point and out of Oxy's control to foresee, avoid or prevent from happening and did not stem from any of Oxy's upstream facility activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. In this case, Plains All American, third party operated midstream pipeline operator, suddenly and unexpectedly lost a compressor station due to nine (9) downed power poles, which in turn triggered several brief intermittent flaring events to occur, throughout the day. Until Plain's compressor station's power was restored and able to the handle the volume of gas sent to them, the spike in line pressure forced Oxy's upstream facility to route all its stranded gas to a flare, as it was not able to push its gas into Plain's gas pipeline. This event could not have been foreseen, avoided or prevented from happening as this event occurred with no advance notice or warning to Oxy and its field 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, 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 case, Plains All American, third party operated midstream pipeline operator, suddenly and unexpectedly lost a compressor station due to nine (9) downed power poles, which in turn triggered several brief intermittent flaring events to occur, throughout the day. Oxy made every effort to shut in as much of production/wells as possible, yet it was absolutely critical to Oxy's operational safety and start up procedures to allow some production to occur at this facility, as it was necessary to maintain a minimal amount of gas flow to keep the facility's compression equipment operating a bit, so that Oxy's Falcon Ridge CGL would be ready to send its gas to Plains pipeline when they were ready and able to start taking gas. The minimal amount of gas flow allowed to be produced and flare was done out of necessity to protect personnel and equipment as a safeguard against potential issues that could occur when restarting the compression equipment at the facility. In addition, Oxy production techs and essential personnel made several attempts to communicate with Plains All American personnel, during their power outage issues,

to be prepared for the re-opening of its pipeline and their gas intake services to recommence. During this time, Oxy production techs also continually monitored the flare during this flaring period. This event is out of OXY's control, 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:**

Oxy is unable to take any corrective actions to eliminate the cause and potential reoccurrence of a midstream third-party owned and operated pipeline restriction or shut-in, as this is downstream of Oxy's custody transfer point and out of Oxy's control to foresee, avoid, prevent from happening or reoccur. Plains All American's operations will have issues which may reoccur from time to time and may trigger a spike in the gas line pressure, which in turn, directly impacts Oxy's ability to send gas to them. When Plains All American's facilities have equipment issues, operational capabilities or greatly struggles to handle the volume of gas being sent to them by Oxy, Plains All American then restricts Oxy's ability to send gas, which then prompts Oxy to route all its stranded gas not pushed into its gas pipeline, to flare. OXY makes every effort to control and minimize emissions as much as possible. Oxy strives to take additional steps, when possible, to minimize the volume of gas flared by choking back well production and maintaining continual communication with Plains All American to ensure that gas is safely directed back to sales as soon as Plains All American resumes normal gas services. The only actions that Oxy can take and handle that is within its control, is to continually communicate with Plains All American personnel, who operate the sales gas pipeline, when possible, during these types of circumstances.

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**District II**  
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**District III**  
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Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
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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 330768

DEFINITIONS

|  |  |
|--|--|
| Operator:<br>OXY USA INC<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>16696  |
|  | Action Number:<br>330768                               |
|  | 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: <ul style="list-style-type: none"><li>• this application's operator, hereinafter "this operator";</li><li>• venting and/or flaring, hereinafter "vent or flare";</li><li>• any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";</li><li>• the statements in (and/or attached to) this, hereinafter "the statements in this";</li><li>• and the past tense will be used in lieu of mixed past/present tense questions and statements.</li></ul> |
|--|

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QUESTIONS

Action 330768

QUESTIONS

|  |  |
|--|--|
| Operator:<br>OXY USA INC<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>16696  |
|  | Action Number:<br>330768                               |
|  | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

QUESTIONS

|  |                                      |
|--|--------------------------------------|
| <b>Prerequisites</b><br>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  | [fAPP2333082512] Falcon Ridge CGL CS |

|   |   |
|---|---|
| <b>Determination of Reporting Requirements</b><br>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 withing 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 > Third Party Downstream Activity > Plains All American > Compressor Station > Power Outage > Emergency Shutdown |

|   |               |
|---|---------------|
| <b>Representative Compositional Analysis of Vented or Flared Natural Gas</b><br>Please provide the mole percent for the percentage questions in this group. |               |
| Methane (CH4) percentage  | 70            |
| Nitrogen (N2) percentage, if greater than one percent   | 1             |
| Hydrogen Sulfide (H2S) PPM, rounded up  | 0             |
| Carbon Dioxide (C02) 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 Sufide (H2S) PPM quality requirement   | Not answered. |
| Carbon Dioxide (C02) percentage quality requirement   | Not answered. |
| Oxygen (O2) percentage quality requirement  | Not answered. |

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QUESTIONS, Page 2  
  
Action 330768

QUESTIONS (continued)

|  |                |
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|  | 16696          |
|  | Action Number: |
|  | 330768         |
| Action Type:   |                |
| [C-129] Venting and/or Flaring (C-129)                             |                |

QUESTIONS

| Date(s) and Time(s)                            |            |
|--|------------|
| Date vent or flare was discovered or commenced | 03/24/2024 |
| Time vent or flare was discovered or commenced | 03:40 AM   |
| Time vent or flare was terminated              | 06:04 AM   |
| 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: 53 Mcf   Recovered: 0 Mcf   Lost: 53 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            | Yes  |
| Was notification of downstream activity received by this operator | No   |
| Downstream OGRID that should have notified this operator          | [713205] Plains All American GP, LLC a Delaware Corpor |
| 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  | The emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable interruption, restriction or complete shut-in of a gas pipeline by a third-party pipeline compressor station operator, which impacted Oxy's ability to send gas to them. This interruption, restriction or complete shut-in of the gas pipeline by a third-party pipeline compression station operator is downstream of Oxy's custody transfer point and out of Oxy's control to foresee, avoid or prevent from happening and did not stem from any of Oxy's upstream facility activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. In this case, Plains All American, third party operated midstream pipeline operator, suddenly and unexpectedly lost a compressor station due to nine (9) downed power poles, which in turn triggered several brief intermittent flaring events to occur, throughout the day. Until Plain's compressor station's power was restored and able to the handle the volume of gas sent to them, the spike in line pressure forced Oxy's upstream facility to route all its stranded gas to a flare, as it was not able to push its gas into Plain's gas pipeline. This event could not have been foreseen, avoided or prevented from happening as this event occurred with no advance notice or warning to Oxy and its field personnel. |
|  | 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                  | <p>emissions as much as possible. In this case, Plains All American, third party operated midstream pipeline operator, suddenly and unexpectedly lost a compressor station due to nine (9) downed power poles, which in turn triggered several brief intermittent flaring events to occur, throughout the day. Oxy made every effort to shut in as much of production/wells as possible, yet it was absolutely critical to Oxy's operational safety and start up procedures to allow some production to occur at this facility, as it was necessary to maintain a minimal amount of gas flow to keep the facility's compression equipment operating a bit, so that Oxy's Falcon Ridge CGL would be ready to send its gas to Plains pipeline when they were ready and able to start taking gas. The minimal amount of gas flow allowed to be produced and flare was done out of necessity to protect personnel and equipment as a safeguard against potential issues that could occur when restarting the compression equipment at the facility. In addition, Oxy production techs and essential personnel made several attempts to communicate with Plains All American personnel, during their power outage issues, to be prepared for the re-opening of its pipeline and their gas intake services to recommence. During this time, Oxy production techs also continually monitored the flare during this flaring period. This event is out of OXY's control, yet OXY made every effort to control and minimize emissions as much as possible.</p> |
| Corrective actions taken to eliminate the cause and reoccurrence of vent or flare | <p>Oxy is unable to take any corrective actions to eliminate the cause and potential reoccurrence of a midstream third-party owned and operated pipeline restriction or shut-in, as this is downstream of Oxy's custody transfer point and out of Oxy's control to foresee, avoid, prevent from happening or reoccur. Plains All American's operations will have issues which may reoccur from time to time and may trigger a spike in the gas line pressure, which in turn, directly impacts Oxy's ability to send gas to them. When Plains All American's facilities have equipment issues, operational capabilities or greatly struggles to handle the volume of gas being sent to them by Oxy, Plains All American then restricts Oxy's ability to send gas, which then prompts Oxy to route all its stranded gas not pushed into its gas pipeline, to flare. OXY makes every effort to control and minimize emissions as much as possible. Oxy strives to take additional steps, when possible, to minimize the volume of gas flared by choking back well production and maintaining continual communication with Plains All American to ensure that gas is safely directed back to sales as soon as Plains All American resumes normal gas services. The only actions that Oxy can take and handle that is within its control, is to continually communicate with Plains All American personnel, who operate the sales gas pipeline, when possible, during these types of circumstances.</p>   |

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| [C-129] Venting and/or Flaring (C-129)                             |                |

ACKNOWLEDGMENTS

|                                     |   |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a <b>complete</b> C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.  |
| <input checked="" type="checkbox"/> | I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively. |
| <input checked="" type="checkbox"/> | I hereby certify the statements in this report are true and correct to the best of my knowledge and acknowledge that any false statement may be subject to civil and criminal penalties under the Oil and Gas Act.  |
| <input checked="" type="checkbox"/> | I acknowledge that the acceptance of any C-129 forms by the OCD does not relieve this operator of liability should their operations have failed to adequately investigate, report, and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment.                       |
| <input checked="" type="checkbox"/> | I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations.  |



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CONDITIONS

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|  | Action Number:<br>330768                               |
|  | 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. | 4/9/2024       |