



**AKM MEASUREMENT SERVICES,LLC. Natural Gas Analysis Report**  
GPA 2172-09/API 14.5 Report with GPA 2145-16 Physical Properties

|                                  | Sample Information                   |
|----------------------------------|--------------------------------------|
| Sample Name                      | CYPRESS 33 CTB A CHECK 1             |
| Technician                       | ANTHONY DOMINGUEZ                    |
| Analyzer Make & Model            | INFICON MICRO GC                     |
| Last Calibration/Validation Date | 04-27-2023                           |
| Meter Number                     | 18940C                               |
| Air temperature                  | 67                                   |
| Flow Rate (MCF/Day)              |                                      |
| Heat Tracing                     | HEATED HOSE & GASIFIER               |
| Sample description/mtr name      | CYPRESS 33 CTB A CHECK 1             |
| Sampling Method                  | FILL & EMPTY                         |
| Operator                         | OCCIDENTAL PETROLEUM                 |
| State                            | NEW MEXICO                           |
| Region Name                      | PERMIAN_RESOURCES                    |
| Asset                            | NEW MEXICO                           |
| System                           | WEST                                 |
| FLOC                             | OP-L3818-BT001                       |
| Sample Sub Type                  | GAS LIFT                             |
| Sample Name Type                 | WELL                                 |
| Vendor                           | AKM MEASUREMENT                      |
| Cylinder #                       | 1951                                 |
| Sampled by                       | LUIS JIMENEZ                         |
| Sample date                      | 4-21-2023                            |
| Analyzed date                    | 4-27-2023                            |
| Method Name                      | C9                                   |
| Injection Date                   | 2023-04-27 23:44:20                  |
| Report Date                      | 2023-04-27 23:48:29                  |
| EZReporter Configuration File    | 1-16-2023 OXY GPA C9+ H2S #2.cfgx    |
| Source Data File                 | 3ff6495a-c75c-4101-9c04-63a841182185 |
| NGA Phys. Property Data Source   | GPA Standard 2145-16 (FPS)           |
| Data Source                      | INFICON Fusion Connector             |

**Component Results**

| Component Name | Peak Area | Raw Amount | Response Factor | Norm Mole% | Gross HV (Dry) (BTU / Ideal cu.ft.) | Relative Gas Density (Dry) | GPM (Dry) (Gal. / 1000 cu.ft.) |
|----------------|-----------|------------|-----------------|------------|-------------------------------------|----------------------------|--------------------------------|
| Nitrogen       | 17397.4   | 0.9871     | 0.00005674      | 0.9894     | 0.0                                 | 0.00957                    | 0.109                          |
| Methane        | 1059173.2 | 77.4074    | 0.00007308      | 77.5879    | 785.5                               | 0.42976                    | 13.201                         |
| CO2            | 4202.7    | 0.1970     | 0.00004688      | 0.1975     | 0.0                                 | 0.00300                    | 0.034                          |
| Ethane         | 248621.4  | 11.3075    | 0.00004548      | 11.3339    | 201.0                               | 0.11767                    | 3.042                          |
| H2S            | 0.0       | 0.0000     | 0.00000000      | 0.0000     | 0.0                                 | 0.00000                    | 0.000                          |
| Propane        | 166800.3  | 5.4260     | 0.00003253      | 5.4386     | 137.2                               | 0.08280                    | 1.504                          |
| iso-butane     | 71935.8   | 0.8012     | 0.00001114      | 0.8030     | 26.2                                | 0.01611                    | 0.264                          |
| n-Butane       | 168504.8  | 1.8576     | 0.00001102      | 1.8619     | 60.9                                | 0.03736                    | 0.589                          |
| iso-pentane    | 48124.8   | 0.4669     | 0.00000970      | 0.4680     | 18.8                                | 0.01166                    | 0.172                          |
| n-Pentane      | 57620.6   | 0.5452     | 0.00000946      | 0.5465     | 22.0                                | 0.01361                    | 0.199                          |
| hexanes        | 51772.0   | 0.3896     | 0.00000752      | 0.3905     | 18.6                                | 0.01162                    | 0.161                          |
| heptanes       | 38565.0   | 0.2360     | 0.00000612      | 0.2365     | 13.0                                | 0.00818                    | 0.110                          |
| octanes        | 19285.0   | 0.1030     | 0.00000534      | 0.1033     | 6.5                                 | 0.00407                    | 0.053                          |
| nonanes+       | 8539.0    | 0.0429     | 0.00000503      | 0.0430     | 3.0                                 | 0.00190                    | 0.024                          |
| Total:         |           | 99.7674    |                 | 100.0000   | 1292.6                              | 0.74733                    | 19.462                         |

**Results Summary**

| Result                                   | Dry     | Sat.   |
|--|---------|--------|
| Total Un-Normalized Mole%                | 99.7674 |        |
| Pressure Base (psia)                     | 14.730  |        |
| Temperature Base (Deg. F)                | 60.00   |        |
| Flowing Temperature (Deg. F)             | 81.6    |        |
| Flowing Pressure (psia)                  | 69.3    |        |
| Gross Heating Value (BTU / Ideal cu.ft.) | 1292.6  | 1270.1 |
| Gross Heating Value (BTU / Ideal cu.ft.) | 1297.6  | 1275.5 |

|                            |        |        |  |
|----------------------------|--------|--------|--|
| Result                     | Dry    | Sat.   |  |
| Relative Density (G), Real | 0.7499 | 0.7480 |  |

Monitored Parameter Report

| Parameter                  | Value   | Lower Limit | Upper Limit | Status |  |
|----------------------------|---------|-------------|-------------|--------|--|
| Total un-normalized amount | 99.7674 | 97.0000     | 103.0000    | Pass   |  |

**UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM****Facility:** Cypress 33A CTB**Flare Date:** 08/30/2023**Duration of Event:** 4 Hours**MCF Flared:** 80**Start Time:** 06:00 AM**End Time:** 10:00 AM**Cause:** Emergency Flare > Equipment Malfunction > VRU > VFD Fault**Method of Flared Gas Measurement:** Gas Flare Meter

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

The emissions were caused by the sudden, 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 maintenance practices. Internal Oxy procedures ensure that upon a sudden and unexpected flaring event, production techs are promptly notified, and are instructed to assess the issue as soon as possible to take prompt corrective action and minimize emissions. In this case, sales gas had to be flared rather than be compressed when the facility's VRU suddenly and unexpectedly malfunctioned on a VFD fault and a third-party repair technician had to be dispatched to get the unit restarted, which took some time for the technician to arrive and resolve. The minimal amount of gas flow allowed to be flared was done out of necessity to protect personnel and equipment as a safeguard.

**2. Steps Taken to limit duration and magnitude of venting or flaring:**

It is OXY's policy to route all 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, sales gas had to be flared rather than be compressed when the facility's VRU suddenly and unexpectedly malfunctioned on a VFD fault. Production techs were unable to resolve the VRU malfunction as the VFD fault would not clear and a third-party repair technician had to be requested and dispatched to get the unit restarted, which took some time for the technician to arrive and resolve. Once the VRU was restarted and back to its normal optimized efficiency did venting cease. The minimal amount of gas flow allowed to be flared was done out of necessity to protect personnel and equipment as a safeguard. Several wells were shut in in order to have flaring cease.

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

Oxy is limited in its corrective actions to eliminate the cause and potential reoccurrence of a malfunctioning VRU, as notwithstanding proper VRU, design and operation, whether low- or high-pressure, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause equipment malfunctions to occur without warning or advance notice, especially during severe weather conditions. OXY makes every effort to control and minimize emissions as much as possible during these circumstances. The limited actions that Oxy can do in this circumstance is to submit a work order for repair, work with its equipment maintenance team to have the issue resolved in a timely manner and continue monitoring the equipment until its repair and restoration to normal operations is complete.

**District I**  
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**District II**  
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**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 265932

DEFINITIONS

|  |  |
|--|--|
| Operator:<br>OXY USA INC<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>16696  |
|  | Action Number:<br>265932                               |
|  | 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 265932

**QUESTIONS**

|  |                |  |
|--|----------------|--|
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|  | Action Number: | 265932                                 |
|  | Action Type:   | [C-129] Venting and/or Flaring (C-129) |
|  |                |  |

**QUESTIONS**

|  |                                   |
|--|-----------------------------------|
| <b>Prerequisites</b>   |                                   |
| 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  | [fAPP2305250553] Cypress 33 A CTB |

|  |   |
|--|---|
| <b>Determination of Reporting Requirements</b>   |   |
| 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 <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 > Equipment Malfunction > VRU > VFD Fault |

|   |               |
|---|---------------|
| <b>Representative Compositional Analysis of Vented or Flared Natural Gas</b>  |               |
| Please provide the mole percent for the percentage questions in this group.   |               |
| Methane (CH4) percentage  | 78            |
| 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  | 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 265932

**QUESTIONS (continued)**

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**QUESTIONS**

| Date(s) and Time(s)                            |            |
|--|------------|
| Date vent or flare was discovered or commenced | 08/31/2023 |
| Time vent or flare was discovered or commenced | 06:00 AM   |
| Time vent or flare was terminated              | 10:00 AM   |
| Cumulative hours during this event             | 4          |

| 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: 80 Mcf   Recovered: 0 Mcf   Lost: 80 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. | False   |
| Please explain reason for why this event was beyond this operator's control  | The emissions were caused by the sudden, 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 maintenance practices. Internal Oxy procedures ensure that upon a sudden and unexpected flaring event, production techs are promptly notified, and are instructed to assess the issue as soon as possible to take prompt corrective action and minimize emissions. In this case, sales gas had to be flared rather than be compressed when the facility's VRU suddenly and unexpectedly malfunctioned on a VFD fault and a third-party repair technician had to be dispatched to get the unit restarted, which took some time for the technician to arrive and resolve. The minimal amount of gas flow allowed to be flared was done out of necessity to protect personnel and equipment as a safeguard. |
| Steps taken to limit the duration and magnitude of vent or flare   | It is OXY's policy to route all 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, sales gas had to be flared rather than be compressed when the facility's VRU suddenly and unexpectedly malfunctioned on a VFD fault. Production techs were unable to resolve the VRU malfunction as the VFD fault would not clear and a third-party repair technician had to be requested and dispatched to get the unit restarted, which took some time for the technician to arrive and resolve. Once the VRU  |

|   |  |
|---|--|
|   | was restarted and back to its normal optimized efficiency did venting cease. The minimal amount of gas flow allowed to be flared was done out of necessity to protect personnel and equipment as a safeguard. Several wells were shut in in order to have flaring cease.   |
| Corrective actions taken to eliminate the cause and reoccurrence of vent or flare | Oxy is limited in its corrective actions to eliminate the cause and potential reoccurrence of a malfunctioning VRU, as notwithstanding proper VRU, design and operation, whether low- or high-pressure, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause equipment malfunctions to occur without warning or advance notice, especially during severe weather conditions. OXY makes every effort to control and minimize emissions as much as possible during these circumstances. The limited actions that Oxy can do in this circumstance is to submit a work order for repair, work with its equipment maintenance team to have the issue resolved in a timely manner and continue monitoring the equipment until its repair and restoration to normal operations is complete. |

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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 <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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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. | 9/15/2023      |