



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 | RED TANK 27-28 CTB PRODUCTION |
| Technician | ANTHONY DOMINGUEZ |
| Analyzer Make & Model | INFICON MICRO GC |
| Last Calibration/Validation Date | 02-16-2024 |
| Meter Number | 16211P |
| Air temperature | 40 |
| Flow Rate (MCF/Day) | 11943 |
| Heat Tracing | HEATED HOSE & GASIFIER |
| Sample description/mtr name | RED TANK 27-28 CTB PRODUCTION |
| Sampling Method | FILL & EMPTY |
| Operator | OCCIDENTAL PETROLEUM, OXY USA INC |
| State | NEW MEXICO |
| Region Name | PERMIAN_RESOURCES |
| Asset | NEW MEXICO |
| System | RED TANK |
| FLOC | OP-L2152-BT002 |
| Sample Sub Type | CTB |
| Sample Name Type | METER |
| Vendor | AKM MEASUREMENT |
| Cylinder # | 38932 |
| Sampled by | SCOTT |
| Sample date | 2-13-2024 |
| Analyzed date | 2-18-2024 |
| Method Name | C9 |
| Injection Date | 2024-02-18 17:14:52 |
| Report Date | 2024-02-18 17:19:30 |
| EZReporter Configuration File | 1-16-2023 OXY GPA C9+ H2S #2.cfgx |
| Source Data File | 39fcbadc-1e76-48bb-83b0-021ad2e296d3 |
| 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 | 31522.3 | 1.8194 | 0.00005772 | 1.8171 | 0.0 | 0.01757 | 0.201 |
| Methane | 993454.8 | 72.4026 | 0.00007288 | 72.3140 | 732.1 | 0.40055 | 12.306 |
| CO2 | 37290.3 | 1.7783 | 0.00004769 | 1.7761 | 0.0 | 0.02699 | 0.304 |
| Ethane | 283731.7 | 13.0755 | 0.00004608 | 13.0595 | 231.6 | 0.13558 | 3.506 |
| H2S | 0.0 | 0.0003 | 0.00000000 | 0.0003 | 0.0 | 0.00000 | 0.000 |
| Propane | 215565.6 | 7.0475 | 0.00003269 | 7.0389 | 177.5 | 0.10717 | 1.947 |
| iso-butane | 75495.5 | 0.8374 | 0.00001109 | 0.8363 | 27.3 | 0.01678 | 0.275 |
| n-Butane | 181664.6 | 2.0044 | 0.00001103 | 2.0019 | 65.5 | 0.04017 | 0.633 |
| iso-pentane | 36619.5 | 0.3588 | 0.00000980 | 0.3584 | 14.4 | 0.00893 | 0.132 |
| n-Pentane | 40549.4 | 0.3813 | 0.00000940 | 0.3808 | 15.3 | 0.00949 | 0.139 |
| hexanes | 24734.0 | 0.2424 | 0.00000980 | 0.2421 | 11.5 | 0.00720 | 0.100 |
| heptanes | 20881.0 | 0.1239 | 0.00000594 | 0.1238 | 6.8 | 0.00428 | 0.057 |
| octanes | 9317.0 | 0.0482 | 0.00000517 | 0.0481 | 3.0 | 0.00190 | 0.025 |
| nonanes+ | 1103.0 | 0.0027 | 0.00000244 | 0.0027 | 0.2 | 0.00012 | 0.002 |
| Total: | | 100.1227 | | 100.0000 | 1285.2 | 0.77674 | 19.625 |

Results Summary

| Result | Dry | Sat. |
|---------------------------|----------|------|
| Total Un-Normalized Mole% | 100.1227 | |
| Pressure Base (psia) | 14.730 | |
| Temperature Base (Deg. F) | 60.00 | |
| Relative Density | 63.4 | |

| Result | Dry | Sat. | |
|--|--------|--------|--|
| Flowing Pressure (psia) | 106.7 | | |
| Gross Heating Value (BTU / Ideal cu.ft.) | 1285.2 | 1262.8 | |
| Gross Heating Value (BTU / Real cu.ft.) | 1290.3 | 1268.4 | |
| Relative Density (G), Real | 0.7795 | 0.7772 | |

Monitored Parameter Report

| Parameter | Value | Lower Limit | Upper Limit | Status | |
|----------------------------|----------|-------------|-------------|--------|--|
| Total un-normalized amount | 100.1227 | 97.0000 | 103.0000 | Pass | |

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM**Facility:** Red Tank 27-28 CTB**Flare Date:** 11/02/2024**Duration of Event:** 1 Hour**MCF Flared:** 135**Start Time:** 03:30 PM**End Time:** 04:30 PM**Cause:** Emergency Flare > Extreme Weather Conditions > Red Tank Area > Red Tank 27 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 instance, severe weather conditions, including heavy rain and hail, led to an unexpected area-wide power disruption by Xcel Energy. This power disruption subsequently impacted the Red Tank area, which in turn affected the Red Tank 27 CGL and its gas compression equipment. As a result, high field pressure occurred, when the Red Tank 27 CGL compression equipment automatically shut down and triggered a flaring event to occur at the Red Tank 27-28 CTB. The occurrence of this event was beyond OXY's control. OXY took all possible measures to manage and reduce emissions to the greatest extent.

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 instance, severe weather conditions, including heavy rain and hail, led to an unexpected area-wide power disruption. This power disruption subsequently impacted the Red Tank area, which in turn affected the Red Tank 27 CGL and its gas compression equipment. As a result, high field pressure occurred, when the Red Tank 27 CGL compression equipment automatically shut down and triggered a flaring event to occur at the Red Tank 27-28 CTB. Upon the occurrence of flaring, field personnel promptly initiated the manual shut-in of wells to mitigate and ultimately cease the flaring. This manual shut-in process required a certain amount of time to complete. The occurrence of this event was beyond OXY's control. OXY took all possible measures to manage and reduce emissions to the greatest extent.

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

Oxy has limited capacity to implement corrective measures to prevent flaring due to power disruptions from third-party providers during extreme weather conditions. Despite the diversity in equipment designs and operations, numerous mechanical or technical issues can arise abruptly and without prior notice, resulting in malfunctions. Oxy continually strives to maintain and operate all its 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 manage within its control are to continue its equipment preventive maintenance program.

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

Action 393597

DEFINITIONS

| | |
|--|--|
| Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294 | OGRID: 16696 |
| | Action Number: 393597 |
| | 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 393597

QUESTIONS

| | |
|--|--|
| Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294 | OGRID: 16696 |
| | Action Number: 393597 |
| | Action Type: [C-129] Venting and/or Flaring (C-129) |

QUESTIONS

| | |
|---|-------------------------------------|
| Prerequisites | |
| <i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i> | |
| Incident Well | Unavailable. |
| Incident Facility | [fAPP2127030589] RED TANK 27-28 CTB |

| | |
|--|---|
| Determination of Reporting Requirements | |
| <i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i> | |
| 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. |
| <i>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.</i> | |
| 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 > Extreme Weather Conditions > Red Tank Area > Red Tank 27 CGL |

| | |
|--|---------------|
| Representative Compositional Analysis of Vented or Flared Natural Gas | |
| <i>Please provide the mole percent for the percentage questions in this group.</i> | |
| Methane (CH4) percentage | 72 |
| Nitrogen (N2) percentage, if greater than one percent | 2 |
| Hydrogen Sulfide (H2S) PPM, rounded up | 3 |
| Carbon Dioxide (CO2) percentage, if greater than one percent | 2 |
| Oxygen (O2) percentage, if greater than one percent | 0 |
| <i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i> | |
| 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 393597

QUESTIONS (continued)

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| | Action Number: 393597 |
| | Action Type: [C-129] Venting and/or Flaring (C-129) |

QUESTIONS

| Date(s) and Time(s) | |
|--|------------|
| Date vent or flare was discovered or commenced | 11/02/2024 |
| Time vent or flare was discovered or commenced | 03:30 PM |
| Time vent or flare was terminated | 04:30 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: Power Failure Other (Specify) Natural Gas Flared Released: 135 Mcf Recovered: 0 Mcf Lost: 135 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 instance, severe weather conditions, including heavy rain and hail, led to an unexpected area-wide power disruption by Xcel Energy. This power disruption subsequently impacted the Red Tank area, which in turn affected the Red Tank 27 CGL and its gas compression equipment. As a result, high field pressure occurred, when the Red Tank 27 CGL compression equipment automatically shut down and triggered a flaring event to occur at the Red Tank 27-28 CTB. The occurrence of this event was beyond OXY's control. OXY took all possible measures to manage and reduce emissions to the greatest extent. |
| | 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 instance, severe weather conditions, including heavy rain and hail, led to an unexpected area-wide power disruption. This power disruption |

| | |
|--|---|
| <p>Steps taken to limit the duration and magnitude of vent or flare</p> | <p>subsequently impacted the Red Tank area, which in turn affected the Red Tank 27 CGL and its gas compression equipment. As a result, high field pressure occurred, when the Red Tank 27 CGL compression equipment automatically shut down and triggered a flaring event to occur at the Red Tank 27-28 CTB. Upon the occurrence of flaring, field personnel promptly initiated the manual shut-in of wells to mitigate and ultimately cease the flaring. This manual shut-in process required a certain amount of time to complete. The occurrence of this event was beyond OXY's control. OXY took all possible measures to manage and reduce emissions to the greatest extent.</p> |
| <p>Corrective actions taken to eliminate the cause and reoccurrence of vent or flare</p> | <p>Oxy has limited capacity to implement corrective measures to prevent flaring due to power disruptions from third-party providers during extreme weather conditions. Despite the diversity in equipment designs and operations, numerous mechanical or technical issues can arise abruptly and without prior notice, resulting in malfunctions. Oxy continually strives to maintain and operate all its 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 manage within its control are to continue its equipment preventive maintenance program.</p> |

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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. | 11/17/2024 |