


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 | LOST TANK 18 FACILITY HP VRU 3 |
| Technician | ANTHONY DOMINGUEZ |
| Analyzer Make & Model | INFICON MICRO GC |
| Last Calibration/Validation Date | 12-15-2023 |
| Meter Number | 16427V |
| Air temperature | 57 |
| Flow Rate (MCF/Day) | 492 |
| Heat Tracing | HEATED HOSE & GASIFIER |
| Sample description/mtr name | LOST TANK 18 FACILITY HP VRU 3 |
| Sampling Method | FILL & EMPTY |
| Operator | OCCIDENTAL PETROLEUM, OXY USA INC |
| State | NEW MEXICO |
| Region Name | PERMIAN_RESOURCES |
| Asset | NEW MEXICO |
| System | LOST TANK |
| FLOC | OP-DELNE-BT010 |
| Sample Sub Type | CTB |
| Sample Name Type | METER |
| Vendor | AKM MEASUREMENT |
| Cylinder # | 38947 |
| Sampled by | SCOTT |
| Sample date | 12-12-2023 |
| Analyzed date | 12-19-2023 |
| Method Name | C9 |
| Injection Date | 2023-12-19 16:54:11 |
| Report Date | 2023-12-19 16:55:47 |
| EZReporter Configuration File | 1-16-2023 OXY GPA C9+ H2S #2.cfgx |
| Source Data File | 53d6f6b5-4467-4841-89c9-4fae48334cc6 |
| 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 | 4568.9 | 0.2600 | 0.00005691 | 0.2564 | 0.0 | 0.00248 | 0.028 | |
| Methane | 456273.6 | 33.2457 | 0.00007286 | 32.7797 | 331.8 | 0.18157 | 5.613 | |
| CO2 | 30720.0 | 1.4627 | 0.00004761 | 1.4422 | 0.0 | 0.02191 | 0.249 | |
| Ethane | 576932.1 | 26.5931 | 0.00004609 | 26.2203 | 465.1 | 0.27222 | 7.082 | |
| H2S | 0.0 | 0.0000 | 0.00000000 | 0.0000 | 0.0 | 0.00000 | 0.000 | |
| Propane | 760744.0 | 24.9277 | 0.00003277 | 24.5783 | 619.8 | 0.37420 | 6.839 | |
| iso-butane | 300846.6 | 3.3273 | 0.00001106 | 3.2807 | 106.9 | 0.06584 | 1.084 | |
| n-Butane | 758257.0 | 8.3375 | 0.00001100 | 8.2207 | 268.8 | 0.16497 | 2.618 | |
| iso-pentane | 132666.7 | 1.2963 | 0.00000977 | 1.2781 | 51.3 | 0.03184 | 0.472 | |
| n-Pentane | 135071.5 | 1.2676 | 0.00000938 | 1.2499 | 50.2 | 0.03114 | 0.458 | |
| hexanes | 50692.0 | 0.4997 | 0.00000986 | 0.4927 | 23.5 | 0.01466 | 0.205 | |
| heptanes | 27428.0 | 0.1657 | 0.00000604 | 0.1633 | 9.0 | 0.00565 | 0.076 | |
| octanes | 6748.0 | 0.0362 | 0.00000537 | 0.0357 | 2.2 | 0.00141 | 0.018 | |
| nonanes+ | 614.0 | 0.0020 | 0.00000326 | 0.0020 | 0.1 | 0.00009 | 0.001 | |
| Total: | | 101.4216 | | 100.0000 | 1928.9 | 1.16798 | 24.743 | |

Results Summary

| Result | Dry | Sat. | |
|------------------------------|----------|------|--|
| Total Un-Normalized Mole% | 101.4216 | | |
| Pressure Base (psia) | 14.730 | | |
| Temperature Base (Deg. F) | 60.00 | | |
| Flowing Temperature (Deg. F) | 114.3 | | |

| Result | Dry | Sat. | |
|--|--------|--------|--|
| Flowing Pressure (psia) | 102.1 | | |
| Gross Heating Value (BTU / Ideal cu.ft.) | 1928.9 | 1895.3 | |
| Gross Heating Value (BTU / Real cu.ft.) | 1948.6 | 1915.7 | |
| Relative Density (G), Real | 1.1794 | 1.1705 | |

Monitored Parameter Report

| Parameter | Value | Lower Limit | Upper Limit | Status | |
|----------------------------|----------|-------------|-------------|--------|--|
| Total un-normalized amount | 101.4216 | 97.0000 | 103.0000 | Pass | |

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM**Facility:** Lost Tank 18 CPF**Flare Date:** 01/21/2025**Duration of Event:** 2 Hours 30 Minutes**MCF Flared:** 294**Start Time:** 01:30 AM**End Time:** 04:00 AM**Cause:** Emergency Flare > Equipment Malfunctions > Production Separator & Tester > Dump Stick**Method of Flared Gas Measurement:** Gas Flare Meter

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 situation, there were continuing dump stick issues that was causing it open on 1011 production separator and the tester due to the flowrate transmitter was showing an abnormal rate when it was gas, which in turn, caused the valve didn't shut itself close. During this time, the facility low pressure side was flaring and kept pressuring up as result of the equipment malfunction with the production separator and the tester, which then tripped the Hihi pressure on the VRT, and triggered a COC of the facility itself and a flaring event to occur. A review of the event indicated that the flare valve didn't open due to it being frozen on the air supply because of the extreme freezing weather conditions and temperatures affecting the equipment. The air supply issue was resolved, and the production separator oil dump was placed into a level control to avoid potential issues. Oxy operators consistently monitor the facility for any deviations from normal operating parameters; however, this was an abnormal failure that would be difficult to predict. Prior to the flaring incident occurring, all OXY operations and equipment were operating at peak optimization levels. This flaring situation was beyond OXY's control, but Oxy took all possible measures to reduce emissions effectively during this circumstance. This flaring event's duration and volume result from several intermittent flares over 24 hours.

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 situation, there were continuing dump stick issues that was causing it open on 1011 production separator and the tester due to the flowrate transmitter was showing an abnormal rate when it was gas, which in turn, caused the valve didn't shut itself close. During this time, the facility low pressure side was flaring and kept pressuring up as result of the equipment malfunction with the production separator and the tester, which then tripped the Hihi pressure on the VRT, and triggered a COC of the facility itself and a flaring event to occur. A review of the event indicated that the flare valve didn't open due to it being frozen on the air supply because of the extreme freezing weather conditions and temperatures affecting the

equipment. The air supply issue was resolved, and the production separator oil dump was placed into a level control to avoid potential issues. Steps were immediately taken to reduce and mitigate the volume of gas being sent to flare by choking back several wells and reduce the amount of gas being sent to the flare. Prior to the flaring incident occurring, all OXY operations and equipment were operating at peak optimization levels. This flaring situation was beyond OXY's control, but Oxy took all possible measures to reduce emissions effectively during this circumstance.

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

Oxy's ability to take corrective action to prevent and address malfunctions in this type of circumstance is limited. Despite proper design and operation of the production separator and testers, unexpected mechanical or technical issues can arise without warning and are often unforeseeable, leading to unforeseen equipment malfunctions, especially during extreme freezing weather conditions and temperatures.

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 428890

DEFINITIONS

| | |
|--|--|
| Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294 | OGRID: 16696 |
| | Action Number: 428890 |
| | Action Type: [C-129] Venting and/or Flaring (C-129) |

DEFINITIONS

| |
|---|
| <p>For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application:</p> <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 428890

QUESTIONS

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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 | [fAPP2226965761] Lost Tank 18 CPF |

| | |
|--|---|
| 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 > Equipment Malfunctions > Production Separator & Tester > Dump Stick |

| | |
|--|---------------|
| 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 | 33 |
| Nitrogen (N2) percentage, if greater than one percent | 0 |
| 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 |
| <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 428890

QUESTIONS (continued)

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| Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294 | OGRID: 16696 |
| | Action Number: 428890 |
| | Action Type: [C-129] Venting and/or Flaring (C-129) |

QUESTIONS

| Date(s) and Time(s) | |
|--|------------|
| Date vent or flare was discovered or commenced | 01/21/2025 |
| Time vent or flare was discovered or commenced | 01:30 AM |
| Time vent or flare was terminated | 04:00 AM |
| Cumulative hours during this event | 3 |

| 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: 294 Mcf Recovered: 0 Mcf Lost: 294 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>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 situation, there were continuing dump stick issues that was causing it open on 1011 production separator and the tester due to the flowrate transmitter was showing an abnormal rate when it was gas, which in turn, caused the valve didn't shut itself close. During this time, the facility low pressure side was flaring and kept pressuring up as result of the equipment malfunction with the production separator and the tester, which then tripped the Hihi pressure on the VRT, and triggered a COC of the facility itself and a flaring event to occur. A review of the event indicated that the flare valve didn't open due to it being frozen on the air supply because of the extreme freezing weather conditions and temperatures affecting the equipment. The air supply issue was resolved, and the production separator oil dump was placed into a level control to avoid potential issues. Oxy operators consistently monitor the facility for any deviations from normal operating parameters; however, this was an abnormal failure that would be difficult to predict. Prior to the flaring incident occurring, all OXY operations and equipment were operating at peak optimization levels. This flaring situation was beyond OXY's control, but Oxy took all possible measures to reduce emissions effectively during this circumstance. This flaring event's duration and</p> |

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| | volume result from several intermittent flares over 24 hours. |
| Steps taken to limit the duration and magnitude of vent or flare | <p>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 situation, there were continuing dump stick issues that was causing it open on 1011 production separator and the tester due to the flowrate transmitter was showing an abnormal rate when it was gas, which in turn, caused the valve didn't shut itself close. During this time, the facility low pressure side was flaring and kept pressuring up as result of the equipment malfunction with the production separator and the tester, which then tripped the Hihi pressure on the VRT, and triggered a COC of the facility itself and a flaring event to occur. A review of the event indicated that the flare valve didn't open due to it being frozen on the air supply because of the extreme freezing weather conditions and temperatures affecting the equipment. The air supply issue was resolved, and the production separator oil dump was placed into a level control to avoid potential issues. Steps were immediately taken to reduce and mitigate the volume of gas being sent to flare by choking back several wells and reduce the amount of gas being sent to the flare. Prior to the flaring incident occurring, all OXY operations and equipment were operating at peak optimization levels. This flaring situation was beyond OXY's control, but Oxy took all possible measures to reduce emissions effectively during this circumstance.</p> |
| Corrective actions taken to eliminate the cause and reoccurrence of vent or flare | <p>Oxy's ability to take corrective action to prevent and address malfunctions in this type of circumstance is limited. Despite proper design and operation of the production separator and testers, unexpected mechanical or technical issues can arise without warning and are often unforeseeable, leading to unforeseen equipment malfunctions, especially during extreme freezing weather conditions and temperatures.</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

Action 428890

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CONDITIONS

| Created By | Condition | Condition Date |
|---------------|--|----------------|
| shelbyschoepf | 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. | 2/5/2025 |