

Pantechs Laboratories, Inc. - Order: 4172-8441 - 2/20/2025 - South Hobbs Unit - Compressor Suction and Discharge Samples at South Hobbs Battery



ANALYSIS certificate

| | | | |
|--------------|-------------------------|----------------------|---------------------|
| OPERATOR | Occidental Permian Ltd. | PRESSURE | 30 psig |
| LOCATION | South Hobbs Unit 31920 | SAMPLE/ATM TEMP | 40 F / 27 F |
| SITE | Central Tank Battery | COLLECTION DATE/TIME | 02/20/2025 11:27 AM |
| SAMPLE POINT | Compressor Suction | COLLECTION BY | Cody Carson |
| METER ID | | SPOT/COMPOSITE | Spot |
| CONTAINER(S) | PL3019 | PRESSURE/TEMP BASE | 14.650 psi/60 F |

ONSITE TESTING - STAIN TUBE

| METHOD | COMPOUND | MOL% | GRAINS/100 SCF | PPMV | LB/MMSCF |
|---------|------------------|--------|----------------|----------|----------|
| GPA2377 | hydrogen sulfide | 1.3649 | 866.73 | 13,781.0 | 650.0 |

FRACTIONAL: GPA 2261-20

| COMPOUND | FORMULA | MOL% | WT% | GPM |
|------------------|---------|----------|----------|--------|
| NITROGEN | N2 | 0.0925 | 0.0569 | |
| CARBON DIOXIDE | CO2 | 88.1706 | 85.1966 | 14.857 |
| HYDROGEN SULFIDE | H2S | 1.3649 | 1.0213 | 0.182 |
| METHANE | C1 | 0.5453 | 0.1921 | 0.091 |
| ETHANE | C2 | 0.4164 | 0.2749 | 0.110 |
| PROPANE | C3 | 2.1872 | 2.1176 | 0.595 |
| I-BUTANE | iC4 | 0.9443 | 1.2050 | 0.305 |
| N-BUTANE | nC4 | 2.5548 | 3.2603 | 0.801 |
| I-PENTANE | iC5 | 1.0977 | 1.7389 | 0.396 |
| N-PENTANE | nC5 | 0.8704 | 1.3788 | 0.312 |
| HEXANES PLUS | C6+ | 1.7559 | 3.5576 | 0.721 |
| TOTALS: | | 100.0000 | 100.0000 | 18.370 |

Value of "0.0000" in fractional interpreted as below detectable limit.

LIQUID YIELD (GAL/MSCF)

| ETHANE+ | PROPANE+ | BUTANES+ | PENTANES+ | 26 PSI RVP | 10 PSI RVP |
|---------|----------|----------|-----------|------------|------------|
| 3.240 | 3.130 | 2.535 | 1.429 | | |

CALCULATED PROPERTIES: GPA 2172/ASTM D3588

| PROPERTY | BTU/CF GROSS | BTU/CF NET | SPECIFIC GR. | Z FACTOR | MOL WEIGHT | WOBBE INDX |
|----------|--------------|------------|--------------|----------|------------|------------|
| DRY | 358.90 | 331.49 | 1.583 | 0.993 | 45.546 | 285.25 |
| H2O SAT | 353.86 | 326.01 | 1.546 | 0.992 | 44.750 | 284.59 |

**UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM****Facility ID:** fJXK1520829861**Facility:** South Hobbs CTB**Duration of Event:** 50 Minutes**Start Time:** 06:56 PM**Cause:** Emergency Flare > Compressor Malfunction > Low DP**Method of Flared Gas Measurement:** Gas Flare Meter**Operator:** Occidental Permian LTD.**Flare Date:** 05/18/2025**MCF Flared:** 58**End Time:** 07:46 PM**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 effective facility operation practices while maintaining a continuous preventative maintenance program for its equipment. In this instance, the 4500 compressor unit at the facility shut down due to lube oil differential pressure across the filters being low caused by bad filters. This incident was unforeseen, unavoidable, and occurred without prior notice or warning. Compressor malfunctions can occur without warning and therefore, Oxy is unable to predict, avoid, or prevent this type of equipment malfunction from occurring. Although flaring is not OXY's preferred method for handling excess gas, it is necessary to ensure the safety of our operations, equipment, and field personnel. OXY made every effort to control and minimize emissions as much as possible during this event and ensured all its operational equipment was slowly brought back to normal operations and running efficiently once lube oil filters were swapped. 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 98% combustion efficiency to lessen emissions as much as possible. In this instance, lube oil differential pressure across the filters being low caused by bad filters caused the 4500 compressor to shut down. The field was then contacted to shut down to stop the flare. Although flaring is not OXY's preferred method for handling excess gas, it is necessary to ensure the safety of our operations, equipment, and field personnel. OXY controlled and minimized emissions during this event, by manually choking back wells and ensuring operational equipment was gradually returned to normal operations and running efficiently once lube oil filters were swapped. This event occurred beyond OXY's control, and all possible measures were taken to manage and reduce emissions.

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

The 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. It is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible.

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 499391

DEFINITIONS

| | |
|---|---|
| Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294 | OGRID: 157984 |
| | Action Number: 499391 |
| | Action Type: [C-129] Amend Venting and/or Flaring (C-129A) |

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 499391

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 ID (n#) | Unavailable. |
| Incident Name | Unavailable. |
| Incident Type | Flare |
| Incident Status | Unavailable. |
| Incident Facility | [fJXK1520829861] South Hobbs Unit CTB |
| <i>Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section) that are assigned to your current operator can be amended with this C-129A application.</i> | |

| | |
|--|---|
| 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 > Compressor Malfunction > Low DP |

| | |
|--|--------|
| 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 | 1 |
| Nitrogen (N2) percentage, if greater than one percent | 0 |
| Hydrogen Sulfide (H2S) PPM, rounded up | 13,649 |
| Carbon Dioxide (CO2) percentage, if greater than one percent | 88 |
| 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 | 0 |
| Nitrogen (N2) percentage quality requirement | 0 |
| Hydrogen Sulfide (H2S) PPM quality requirement | 0 |
| Carbon Dioxide (CO2) percentage quality requirement | 0 |
| Oxygen (O2) percentage quality requirement | 0 |

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QUESTIONS, Page 2

Action 499391

QUESTIONS (continued)

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| | Action Number: 499391 |
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QUESTIONS

| Date(s) and Time(s) | |
|--|------------|
| Date vent or flare was discovered or commenced | 05/18/2025 |
| Time vent or flare was discovered or commenced | 06:56 PM |
| Time vent or flare was terminated | 07:46 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: 58 MCF Recovered: 0 MCF Lost: 58 MCF. |
| Other Released Details | Cause: Other Other (Specify) Carbon Dioxide Released: 138 MCF Recovered: 0 MCF Lost: 138 MCF. |
| Additional details for Measured or Estimated Volume(s). Please specify | Not answered. |
| 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 | No |
| Downstream OGRID that should have notified this operator | 0 |
| Date notified of downstream activity requiring this vent or flare | |
| 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 effective facility operation practices while maintaining a continuous preventative maintenance program for its equipment. In this instance, the 4500compressor unit at the facility shut down due to a low lube oil differential pressure across the filters being low caused by bad filters. This incident was unforeseen, unavoidable, and occurred without prior notice or warning. Compressor malfunctions can occur without warning and therefore, Oxy is unable to predict, avoid, or prevent this type of equipment malfunction from occurring. Although flaring is not OXY's preferred method for handling excess gas, it is necessary to ensure the safety of our operations, equipment, and field personnel. OXY made every effort to control and minimize emissions as much as possible during this event and ensured all its operational equipment was slowly brought back to normal operations and running efficiently once lube oil filters were swapped. 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>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 98% combustion efficiency to lessen</p> |

| | |
|---|--|
| Steps taken to limit the duration and magnitude of vent or flare | emissions as much as possible. In this instance, a low lube oil differential pressure alarm caused the 4500 compressor to shut down. The field was then contacted to shut down to stop the flare. Although flaring is not OXY's preferred method for handling excess gas, it is necessary to ensure the safety of our operations, equipment, and field personnel. OXY controlled and minimized emissions during this event, by manually choking back wells and ensuring operational equipment was gradually returned to normal operations and running efficiently once lube oil filters were swapped. This event occurred beyond OXY's control, and all possible measures were taken to manage and reduce emissions. |
| Corrective actions taken to eliminate the cause and reoccurrence of vent or flare | The 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. It is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. |

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ACKNOWLEDGMENTS

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|-------------------------------------|---|
| <input checked="" type="checkbox"/> | I acknowledge that with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.28 NMAC. |
| <input checked="" type="checkbox"/> | I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record. |
| <input checked="" type="checkbox"/> | I hereby certify the statements in this amending 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 499391

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CONDITIONS

| Created By | Condition | Condition Date |
|---------------|--|----------------|
| shelbyschoepf | If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event. | 8/26/2025 |