

**PANTECHS LABORATORIES, INC.**

*Leaders in Petroleum Analytical Services*  
*www.pantechs.com*

# Analytical Report

2/10/2023

|                     |                                                                               |                         |           |
|---------------------|-------------------------------------------------------------------------------|-------------------------|-----------|
| <b>Customer:</b>    | Occidental Permian Ltd.                                                       | <b>Order:</b>           | 503-4218  |
| <b>Location:</b>    | North Hobbs Unit                                                              | <b>Received:</b>        | 2/9/2023  |
| <b>Description:</b> | Samples from Central Tank, North, and West Batteries for Hydrocarbon Analyses | <b>Primary Contact:</b> | Chris Poe |

**REPORT DISTRIBUTION:**

Chris Poe , Richard Sanders

All data reported in this Analytical Report is in compliance with the test method(s) performed as of the date noted above. The validity and integrity of this report will remain intact as long as it is accompanied by this page and reproduced in full. Any datafile (e.g. txt, csv, etc.) produced which is associated with the results in this report shall be considered for convenience only and does not supersede this report as the official test results. We reserve the right to return to you any unused samples received if we consider so necessary (e.g. samples identified as hazardous waste).

We appreciate you choosing Pantechs Laboratories. If you have any questions concerning this report, please feel free to contact us at any time.

**Pantechs Laboratories, Inc.****Order: 503-4218 Order Date: 2/9/2023****Order Description: North Hobbs Unit, Samples from Central Tank, North, and West Batteries for Hydrocarbon Analyses****Sample List**

| Fluid | Operator                | Location         | Site                    | Sample Point                    | Date     | Time    |
|-------|-------------------------|------------------|-------------------------|---------------------------------|----------|---------|
| Gas   | Occidental Permian Ltd. | North Hobbs Unit | Central Tank Battery    | Gas Leg of Production Separator | 2/9/2023 | 3:41 PM |
| Gas   | Occidental Permian Ltd. | North Hobbs Unit | North Injection Battery | Gas Leg of Production Separator | 2/9/2023 | 3:31 PM |
| Gas   | Occidental Permian Ltd. | North Hobbs Unit | West Injection Battery  | Gas Leg of Production Separator | 2/9/2023 | 4:04 PM |
| Gas   | Occidental Permian Ltd. | South Hobbs Unit | Central Tank Battery    | Gas Leg of Production Separator | 2/9/2023 | 3:11 PM |

**No Sample List**

| Operator | Location | Site | Sample Point | Comment |
|----------|----------|------|--------------|---------|
|----------|----------|------|--------------|---------|

Pantechs Laboratories, Inc. - Order: 503-4218 - Order Date: 2/9/2023

Order Description: North Hobbs Unit, Samples from Central Tank, North, and West Batteries for Hydrocarbon Analyses

| SAMPLE ID    |                                 | COLLECTION DATA  |             |
|--------------|---------------------------------|------------------|-------------|
| Operator     | Occidental Permian Ltd.         | Pressure         | 26 psig     |
| Location     | North Hobbs Unit                | Sample Temp      | N/A         |
| Site         | Central Tank Battery            | Atm Temp         | 45 F        |
| Site Type    | Battery                         | Collection Date  | 02/09/2023  |
| Sample Point | Gas Leg of Production Separator | Collection Time  | 3:41 PM     |
| Spot/Comp    | Spot                            | Collection By    | Cody Carson |
| Meter ID     |                                 | Pressure Base    | 14.650 psi  |
| Purchaser    |                                 | Temperature Base | 60 F        |
| Fluid        | Gas                             | Container(s)     | PL2344      |

## GPA 2261 Gas Fractional Analysis with Water Vapor

| COMPOUND         | FORMULA | MOL%    | WT%     | GPM    |
|------------------|---------|---------|---------|--------|
| NITROGEN         | N2      | 0.056   | 0.033   | 0.006  |
| CARBON DIOXIDE   | CO2     | 80.489  | 74.605  | 13.780 |
| HYDROGEN SULFIDE | H2S     | 1.281   | 0.919   | 0.173  |
| WATER VAPOR      | H2O     | 0.555   | 0.211   | 0.032  |
| METHANE          | C1      | 0.484   | 0.164   | 0.082  |
| ETHANE           | C2      | 0.391   | 0.248   | 0.105  |
| PROPANE          | C3      | 2.653   | 2.464   | 0.734  |
| I-BUTANE         | iC4     | 1.657   | 2.028   | 0.545  |
| N-BUTANE         | nC4     | 4.715   | 5.772   | 1.493  |
| I-PENTANE        | iC5     | 2.289   | 3.478   | 0.842  |
| N-PENTANE        | nC5     | 1.769   | 2.688   | 0.644  |
| HEXANES PLUS     | C6+     | 3.661   | 7.390   | 1.579  |
| TOTALS:          |         | 100.000 | 100.000 | 20.015 |

Value of "0.000" in fractional interpreted as below detectable limit.

If Onsite H2S testing is performed, its resulting value is used in fractional table

## GPA 2172/ASTM D3588 CALCULATED PROPERTIES

| WATER CONTENT  | BTU/CF | Specific Gr. | Z Factor | Mol Weight | Wobbe IDX |
|----------------|--------|--------------|----------|------------|-----------|
| DRY            | 652.96 | 1.652        | 0.990    | 47.381     | 508.07    |
| MEASURED WATER | 653.42 | 1.656        | 0.990    | 47.481     |           |

## Water Vapor

| GPM   | PPMM      | LBS/MMSCF | SAMPLE SATURATED |
|-------|-----------|-----------|------------------|
| 0.032 | 5,550.000 | 264.286   | No               |

## Onsite Testing by Stain Tube

| METHOD  | TYPE | MEAS VALUE | MOL%   | GRAINS/100 | PPMV     |
|---------|------|------------|--------|------------|----------|
| GPA2377 | H2S  | 1.20 vol%  | 1.2810 | 813.46     | 12,934.0 |

Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.



Pantechs Laboratories, Inc. - Order: 503-4218 - Order Date: 2/9/2023

**Order Description: North Hobbs Unit, Samples from Central Tank, North, and West Batteries for Hydrocarbon Analyses**

| SAMPLE ID    |                                 | COLLECTION DATA  |             |
|--------------|---------------------------------|------------------|-------------|
| Operator     | Occidental Permian Ltd.         | Pressure         | 34 psig     |
| Location     | North Hobbs Unit                | Sample Temp      | N/A         |
| Site         | North Injection Battery         | Atm Temp         | 45 F        |
| Site Type    | Battery                         | Collection Date  | 02/09/2023  |
| Sample Point | Gas Leg of Production Separator | Collection Time  | 3:31 PM     |
| Spot/Comp    | Spot                            | Collection By    | Cody Carson |
| Meter ID     |                                 | Pressure Base    | 14.650 psi  |
| Purchaser    |                                 | Temperature Base | 60 F        |
| Fluid        | Gas                             | Container(s)     | PL1003      |

**GPA 2261 Gas Fractional Analysis with Water Vapor**

| COMPOUND         | FORMULA | MOL%    | WT%     | GPM    |
|------------------|---------|---------|---------|--------|
| NITROGEN         | N2      | 0.065   | 0.041   | 0.007  |
| CARBON DIOXIDE   | CO2     | 94.461  | 92.516  | 16.121 |
| HYDROGEN SULFIDE | H2S     | 0.214   | 0.162   | 0.029  |
| WATER VAPOR      | H2O     | 0.540   | 0.216   | 0.031  |
| METHANE          | C1      | 0.083   | 0.030   | 0.014  |
| ETHANE           | C2      | 0.132   | 0.088   | 0.035  |
| PROPANE          | C3      | 0.839   | 0.823   | 0.231  |
| I-BUTANE         | iC4     | 0.397   | 0.514   | 0.130  |
| N-BUTANE         | nC4     | 1.096   | 1.418   | 0.346  |
| I-PENTANE        | iC5     | 0.452   | 0.726   | 0.166  |
| N-PENTANE        | nC5     | 0.388   | 0.623   | 0.141  |
| HEXANES PLUS     | C6+     | 1.333   | 2.843   | 0.573  |
| TOTALS:          |         | 100.000 | 100.000 | 17.824 |

Value of "0.000" in fractional interpreted as below detectable limit.

If Onsite H2S testing is performed, its resulting value is used in fractional table

**GPA 2172/ASTM D3588 CALCULATED PROPERTIES**

| WATER CONTENT  | BTU/CF | Specific Gr. | Z Factor | Mol Weight | Wobbe IDX |
|----------------|--------|--------------|----------|------------|-----------|
| DRY            | 178.36 | 1.558        | 0.993    | 44.838     | 142.89    |
| MEASURED WATER | 178.67 | 1.562        | 0.993    | 44.935     |           |

**Water Vapor**

| GPM   | PPMM      | LBS/MMSCF | SAMPLE SATURATED |
|-------|-----------|-----------|------------------|
| 0.031 | 5,400.000 | 257.143   | No               |

**Onsite Testing by Stain Tube**

| METHOD  | TYPE | MEAS VALUE | MOL%   | GRAINS/100 | PPMV    |
|---------|------|------------|--------|------------|---------|
| GPA2377 | H2S  | 0.20 vol%  | 0.2135 | 135.58     | 2,155.7 |

Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.

Pantechs Laboratories, Inc. - Order: 503-4218 - Order Date: 2/9/2023

**Order Description: North Hobbs Unit, Samples from Central Tank, North, and West Batteries for Hydrocarbon Analyses**

| SAMPLE ID    |                                 | COLLECTION DATA  |             |
|--------------|---------------------------------|------------------|-------------|
| Operator     | Occidental Permian Ltd.         | Pressure         | 28 psig     |
| Location     | North Hobbs Unit                | Sample Temp      | N/A         |
| Site         | West Injection Battery          | Atm Temp         | 40 F        |
| Site Type    | Battery                         | Collection Date  | 02/09/2023  |
| Sample Point | Gas Leg of Production Separator | Collection Time  | 4:04 PM     |
| Spot/Comp    | Spot                            | Collection By    | Cody Carson |
| Meter ID     |                                 | Pressure Base    | 14.650 psi  |
| Purchaser    |                                 | Temperature Base | 60 F        |
| Fluid        | Gas                             | Container(s)     | PL0245      |

**GPA 2261 Gas Fractional Analysis with Water Vapor**

| COMPOUND         | FORMULA | MOL%    | WT%     | GPM    |
|------------------|---------|---------|---------|--------|
| NITROGEN         | N2      | 0.048   | 0.030   | 0.005  |
| CARBON DIOXIDE   | CO2     | 93.595  | 92.306  | 15.972 |
| HYDROGEN SULFIDE | H2S     | 1.480   | 1.130   | 0.200  |
| WATER VAPOR      | H2O     | 0.511   | 0.206   | 0.029  |
| METHANE          | C1      | 0.487   | 0.175   | 0.083  |
| ETHANE           | C2      | 0.185   | 0.125   | 0.050  |
| PROPANE          | C3      | 0.623   | 0.616   | 0.172  |
| I-BUTANE         | iC4     | 0.219   | 0.285   | 0.072  |
| N-BUTANE         | nC4     | 0.645   | 0.840   | 0.204  |
| I-PENTANE        | iC5     | 0.435   | 0.703   | 0.159  |
| N-PENTANE        | nC5     | 0.417   | 0.674   | 0.151  |
| HEXANES PLUS     | C6+     | 1.355   | 2.910   | 0.582  |
| TOTALS:          |         | 100.000 | 100.000 | 17.679 |

Value of "0.000" in fractional interpreted as below detectable limit.

If Onsite H2S testing is performed, its resulting value is used in fractional table

**GPA 2172/ASTM D3588 CALCULATED PROPERTIES**

| WATER CONTENT  | BTU/CF | Specific Gr. | Z Factor | Mol Weight | Wobbe IDX |
|----------------|--------|--------------|----------|------------|-----------|
| DRY            | 167.09 | 1.547        | 0.993    | 44.533     | 134.32    |
| MEASURED WATER | 167.38 | 1.551        | 0.993    | 44.625     |           |

**Water Vapor**

| GPM   | PPMM      | LBS/MMSCF | SAMPLE SATURATED |
|-------|-----------|-----------|------------------|
| 0.029 | 5,110.000 | 243.333   | No               |

**Onsite Testing by Stain Tube**

| METHOD  | TYPE | MEAS VALUE | MOL%   | GRAINS/100 | PPMV     |
|---------|------|------------|--------|------------|----------|
| GPA2377 | H2S  | 1.40 vol%  | 1.4797 | 939.64     | 14,940.3 |

Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.

Pantechs Laboratories, Inc. - Order: 503-4218 - Order Date: 2/9/2023

**Order Description: North Hobbs Unit, Samples from Central Tank, North, and West Batteries for Hydrocarbon Analyses**

| SAMPLE ID    |                                 | COLLECTION DATA  |             |
|--------------|---------------------------------|------------------|-------------|
| Operator     | Occidental Permian Ltd.         | Pressure         | 27 psig     |
| Location     | South Hobbs Unit                | Sample Temp      | N/A         |
| Site         | Central Tank Battery            | Atm Temp         | 50 F        |
| Site Type    | Battery                         | Collection Date  | 02/09/2023  |
| Sample Point | Gas Leg of Production Separator | Collection Time  | 3:11 PM     |
| Spot/Comp    | Spot                            | Collection By    | Cody Carson |
| Meter ID     |                                 | Pressure Base    | 14.650 psi  |
| Purchaser    |                                 | Temperature Base | 60 F        |
| Fluid        | Gas                             | Container(s)     | PL2332      |

**GPA 2261 Gas Fractional Analysis with Water Vapor**

| COMPOUND         | FORMULA | MOL%    | WT%     | GPM    |
|------------------|---------|---------|---------|--------|
| NITROGEN         | N2      | 0.056   | 0.033   | 0.006  |
| CARBON DIOXIDE   | CO2     | 80.302  | 74.480  | 13.748 |
| HYDROGEN SULFIDE | H2S     | 1.509   | 1.084   | 0.204  |
| WATER VAPOR      | H2O     | 0.553   | 0.210   | 0.032  |
| METHANE          | C1      | 0.483   | 0.163   | 0.082  |
| ETHANE           | C2      | 0.390   | 0.247   | 0.105  |
| PROPANE          | C3      | 2.647   | 2.460   | 0.733  |
| I-BUTANE         | iC4     | 1.653   | 2.025   | 0.543  |
| N-BUTANE         | nC4     | 4.705   | 5.763   | 1.490  |
| I-PENTANE        | iC5     | 2.284   | 3.473   | 0.840  |
| N-PENTANE        | nC5     | 1.765   | 2.684   | 0.642  |
| HEXANES PLUS     | C6+     | 3.653   | 7.378   | 1.575  |
| TOTALS:          |         | 100.000 | 100.000 | 20.000 |

Value of "0.000" in fractional interpreted as below detectable limit.

If Onsite H2S testing is performed, its resulting value is used in fractional table

**GPA 2172/ASTM D3588 CALCULATED PROPERTIES**

| WATER CONTENT  | BTU/CF | Specific Gr. | Z Factor | Mol Weight | Wobbe IDX |
|----------------|--------|--------------|----------|------------|-----------|
| DRY            | 653.00 | 1.651        | 0.990    | 47.351     | 508.26    |
| MEASURED WATER | 653.46 | 1.655        | 0.990    | 47.450     |           |

**Water Vapor**

| GPM   | PPMM      | LBS/MMSCF | SAMPLE SATURATED |
|-------|-----------|-----------|------------------|
| 0.032 | 5,530.000 | 263.333   | No               |

**Onsite Testing by Stain Tube**

| METHOD  | TYPE | MEAS VALUE | MOL%   | GRAINS/100 | PPMV     |
|---------|------|------------|--------|------------|----------|
| GPA2377 | H2S  | 1.40 vol%  | 1.5093 | 958.43     | 15,239.0 |

Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.

THIS PAGE IS INTENTIONALLY LEFT BLANK



**UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM****Facility:** South Hobbs CTB**Flare Date:** 2/21/2025**Duration of event:** 25 Minutes**MCF Flared:** 143**Start Time:** 10:45 AM**End Time:** 11:10 AM**Cause:** Emergency Flare > Compressor Shutdown > PSI Transmitter Malfunction**Method of Flared Gas Measurement:** Gas Flare Meter**Comments:** This upset event was not caused by any wells associated with the facility

---

**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 case, the LP 4700 compressor unit at the facility shut down due to a lube oil differential pressure malfunction. Notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. Compressor engines are designed to operate in a precise manner and when malfunctions occur, it disrupts the gas compressor's operating manner and cuts off engine power, which in turn, prompts an automatic shutdown of the unit. Compression malfunctions occur without warning and therefore, Oxy is unable to predict, avoid or prevent this type of equipment malfunction from occurring. This malfunctioning event is out of OXY's control. OXY made every effort to control and minimize emissions as much as possible. All other compression at the facility was operating as designed and were running normally prior to the malfunctions occurring. The duration and volume of this event is a collective of all intermittent flaring instances within a 24-period.

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

This facility is unmanned, except when Oxy production techs are gathering data daily or conducting daily walk-throughs to ensure that there are no problems, circumstances and/or assist other personnel on-site for maintenance purposes. It is OXY's policy to route its stranded gas to a flare during an unforeseen and unavoidable emergency or malfunction, as the part of the overall process or steps to take to limit duration and magnitude of flaring. Oxy personnel are in the field 24/7 and can physically see when we are flaring which in turn are communicated to additional Oxy field personnel. Internal OXY procedures ensure that upon notice of flaring, malfunction gas compressor unit and/or multiple unit shutdown alarms, increased sensor line pressure alarms, etc., field production technician personnel are promptly notified, and are instructed to assess the issue as soon as possible to take prompt corrective action and minimize emissions. Oxy production technicians must assess whether the issue or circumstance is due to damage and repair is needed, or whether there are other reasons for its cause. In this case, a transmitter failure on the oil

separator differential pressure caused the LP 4700 compressor to shut down. Automation technician was looking into issues from earlier in the day and zeroed out the transmitter before starting unit back up. OXY made every effort to control and minimize emissions as much as possible during this event.

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

Oxy is limited in the corrective actions to eliminate this type of cause and potential reoccurrence of flaring as notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. Oxy continually strives to maintain and operate all its facility locations equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events. Oxy has a strong and positive compression equipment preventative maintenance program in place. The only actions that Oxy can take and handle that is within its control, is to continue with its compression equipment preventative maintenance program for all its facilities and continually work with its compression rental owners to resolve those issues in a timely manner, should they continue to occur suddenly and without warning.

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 440930

DEFINITIONS

|                                                                               |                                                        |
|-------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>OCCIDENTAL PERMIAN LTD<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>157984                                       |
|                                                                               | Action Number:<br>440930                               |
|                                                                               | Action Type:<br>[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"><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> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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**

QUESTIONS

Action 440930

**QUESTIONS**

|                                                                               |                                                        |
|-------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>OCCIDENTAL PERMIAN LTD<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>157984                                       |
|                                                                               | Action Number:<br>440930                               |
|                                                                               | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

**QUESTIONS**

|                                                                                                                                                                                                   |                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| <b>Prerequisites</b><br><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                                                                                                                                                                                 | [fJXK1520829861] South Hobbs Unit CTB |

|                                                                                                                                                                                                                                                                                            |                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <b>Determination of Reporting Requirements</b><br><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 <b>at least 50 MCF</b> 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                                | Not answered. |
| Additional details for Equipment Involved. Please specify | Not answered. |

|                                                                                                                                                                    |               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Representative Compositional Analysis of Vented or Flared Natural Gas</b><br><i>Please provide the mole percent for the percentage questions in this group.</i> |               |
| Methane (CH4) percentage                                                                                                                                           | 0             |
| Nitrogen (N2) percentage, if greater than one percent                                                                                                              | 0             |
| Hydrogen Sulfide (H2S) PPM, rounded up                                                                                                                             | 15,090        |
| Carbon Dioxide (CO2) percentage, if greater than one percent                                                                                                       | 80            |
| 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. |

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**

QUESTIONS, Page 2

Action 440930

**QUESTIONS (continued)**

|                                                                               |                                                        |
|-------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>OCCIDENTAL PERMIAN LTD<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>157984                                       |
|                                                                               | Action Number:<br>440930                               |
|                                                                               | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

**QUESTIONS**

| Date(s) and Time(s)                            |            |
|------------------------------------------------|------------|
| Date vent or flare was discovered or commenced | 02/21/2025 |
| Time vent or flare was discovered or commenced | 10:45 AM   |
| Time vent or flare was terminated              | 11:10 AM   |
| Cumulative hours during this event             | 0          |

| Measured or Estimated Volume of Vented or Flared Natural Gas              |                                                                                                                       |
|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Natural Gas Vented (Mcf) Details                                          | <i>Not answered.</i>                                                                                                  |
| Natural Gas Flared (Mcf) Details                                          | Cause: Equipment Failure   Other (Specify)   Natural Gas Flared   Released: 24 Mcf   Recovered: 0 Mcf   Lost: 24 Mcf. |
| Other Released Details                                                    | Cause: Equipment Failure   Other (Specify)   Carbon Dioxide   Released: 106 Mcf   Recovered: 0 Mcf   Lost: 106 Mcf.   |
| Additional details for Measured or Estimated Volume(s). Please specify    | 13 MCF Assist Gas                                                                                                     |
| 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 | <i>Not answered.</i> |
| Downstream OGRID that should have notified this operator          | <i>Not answered.</i> |
| Date notified of downstream activity requiring this vent or flare | <i>Not answered.</i> |
| Time notified of downstream activity requiring this vent or flare | <i>Not answered.</i> |

| 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 good facility operation practices while also maintaining its continuous facility equipment preventative maintenance program. In this case, the LP 4700 compressor unit at the facility shut down due to a lube oil differential pressure malfunction. Notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. Compressor engines are designed to operate in a precise manner and when malfunctions occur, it disrupts the gas compressor's operating manner and cuts off engine power, which in turn, prompts an automatic shutdown of the unit. Compression malfunctions occur without warning and therefore, Oxy is unable to predict, avoid or prevent this type of equipment malfunction from occurring. This malfunctioning event is out of OXY's control. OXY made every effort to control and minimize emissions as much as possible. All other compression at the facility was operating as designed and were running normally prior to the malfunctions occurring. The duration and volume of this event is a collective of all intermittent flaring instances within a 24-period.</p> <p>This facility is unmanned, except when Oxy production techs are gathering data daily or</p> |

|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Steps taken to limit the duration and magnitude of vent or flare                  | conducting daily walk-throughs to ensure that there are no problems, circumstances and/or assist other personnel on-site for maintenance purposes. It is OXY's policy to route its stranded gas to a flare during an unforeseen and unavoidable emergency or malfunction, as the part of the overall process or steps to take to limit duration and magnitude of flaring. Oxy personnel are in the field 24/7 and can physically see when we are flaring which in turn are communicated to additional Oxy field personnel. Internal OXY procedures ensure that upon notice of flaring, malfunction gas compressor unit and/or multiple unit shutdown alarms, increased sensor line pressure alarms, etc., field production technician personnel are promptly notified, and are instructed to assess the issue as soon as possible to take prompt corrective action and minimize emissions. Oxy production technicians must assess whether the issue or circumstance is due to damage and repair is needed, or whether there are other reasons for its cause. In this case, a transmitter failure on the oil separator differential pressure caused the LP 4700 compressor to shut down. Automation technician was looking into issues from earlier in the day and zeroed out the transmitter before starting unit back up. OXY made every effort to control and minimize emissions as much as possible during this event. |
| Corrective actions taken to eliminate the cause and reoccurrence of vent or flare | Oxy is limited in the corrective actions to eliminate this type of cause and potential reoccurrence of flaring as notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. Oxy continually strives to maintain and operate all its facility locations equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events. Oxy has a strong and positive compression equipment preventative maintenance program in place. The only actions that Oxy can take and handle that is within its control, is to continue with its compression equipment preventative maintenance program for all its facilities and continually work with its compression rental owners to resolve those issues in a timely manner, should they continue to occur suddenly and without warning.                                                                                                                                                                                                                                                                                                                                                                                         |

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**

ACKNOWLEDGMENTS

Action 440930

**ACKNOWLEDGMENTS**

|                                                                               |                                                        |
|-------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>OCCIDENTAL PERMIAN LTD<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>157984                                       |
|                                                                               | Action Number:<br>440930                               |
|                                                                               | Action Type:<br>[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.                                                                                                                          |

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

CONDITIONS

Action 440930

CONDITIONS

|                                                                               |                                                        |
|-------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>OCCIDENTAL PERMIAN LTD<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>157984                                       |
|                                                                               | Action Number:<br>440930                               |
|                                                                               | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

CONDITIONS

| Created By | Condition                                                                                                                                                                          | Condition Date |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| srojas     | 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. | 3/10/2025      |