

**PANTECHS LABORATORIES, INC.**

*Leaders in Petroleum Analytical Services*  
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# Analytical Report

3/17/2023

|                     |                         |                         |                 |
|---------------------|-------------------------|-------------------------|-----------------|
| <b>Customer:</b>    | Occidental Permian Ltd. | <b>Order:</b>           | 73-4337         |
| <b>Location:</b>    | South Hobbs RCF         | <b>Received:</b>        | 3/14/2023       |
| <b>Description:</b> | Monthly Collection      | <b>Primary Contact:</b> | Richard Sanders |

**REPORT DISTRIBUTION:**

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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: 73-4337 Order Date: 3/14/2023****Order Description: South Hobbs RCF, Monthly Collection****Sample List**

| Fluid  | Operator                | Location                  | Site    | Sample Point               | Date      | Time     |
|--------|-------------------------|---------------------------|---------|----------------------------|-----------|----------|
| CO2    | Occidental Permian Ltd. | Central Measurement Group | SHU7200 | SHRCF Plant CO2 Discharge  | 3/14/2023 | 11:14 AM |
| Gas    | Occidental Permian Ltd. | Central Measurement Group | FE1022  | SHU Battery 31C Meter Run  | 3/14/2023 | 10:21 AM |
| Gas    | Occidental Permian Ltd. | Central Measurement Group | FE7100  | North Hobbs to South Hobbs | 3/14/2023 | 11:05 AM |
| Gas    | Occidental Permian Ltd. | Central Measurement Group | SHU1013 | SHRCF Plant Inlet          | 3/14/2023 | 11:03 AM |
| Gas    | Occidental Permian Ltd. | South Hobbs RCF           | DEX PRO | Inlet                      | 3/14/2023 | 10:56 AM |
| Gas    | Occidental Permian Ltd. | South Hobbs RCF           | DEX PRO | Outlet                     | 3/14/2023 | 10:57 AM |
| Liquid | Occidental Permian Ltd. | South Hobbs RCF           | DEX PRO | Gasoline                   | 3/14/2023 | 10:55 AM |

**No Sample List**

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

Pantechs Laboratories, Inc. - Order: 73-4337 - Order Date: 3/14/2023

Order Description: South Hobbs RCF, Monthly Collection

| SAMPLE ID    |                           | COLLECTION DATA  |               |
|--------------|---------------------------|------------------|---------------|
| Operator     | Occidental Permian Ltd.   | Pressure         | 1554 psig     |
| Location     | Central Measurement Group | Sample Temp      | N/A           |
| Site         | SHU7200                   | Atm Temp         | 50 F          |
| Site Type    | Meter                     | Collection Date  | 03/14/2023    |
| Sample Point | SHRCF Plant CO2 Discharge | Collection Time  | 11:14 AM      |
| Spot/Comp    | Spot                      | Collection By    | Mike McKinney |
| Meter ID     | SHU7200                   | Pressure Base    | 14.650 psi    |
| Purchaser    |                           | Temperature Base | 60 F          |
| Fluid        | CO2                       | Container(s)     | YZ13213       |

## GPA 2177 CO2 Fractional Analysis

| COMPOUND         | FORMULA | MOL%    | VOL%    | WT%     |
|------------------|---------|---------|---------|---------|
| NITROGEN         | N2      | 5.439   | 3.467   | 3.663   |
| CARBON DIOXIDE   | CO2     | 83.954  | 83.183  | 88.837  |
| HYDROGEN SULFIDE | H2S     | 0.593   | 0.464   | 0.486   |
| METHANE          | C1      | 5.877   | 5.791   | 2.267   |
| ETHANE           | C2      | 0.946   | 1.471   | 0.684   |
| PROPANE          | C3      | 1.631   | 2.613   | 1.729   |
| I-BUTANE         | iC4     | 0.386   | 0.734   | 0.539   |
| N-BUTANE         | nC4     | 0.802   | 1.470   | 1.121   |
| I-PENTANE        | iC5     | 0.191   | 0.406   | 0.331   |
| N-PENTANE        | nC5     | 0.117   | 0.246   | 0.203   |
| HEXANES PLUS     | C6+     | 0.064   | 0.155   | 0.140   |
| TOTALS:          |         | 100.000 | 100.000 | 100.000 |

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

## Liquid Phase Properties

| SCF/Gal (Ideal) | SCF/Gal (Real) | Mol Weight | Relative Density (60/60) | Vapor Pressure 100F, psia |
|-----------------|----------------|------------|--------------------------|---------------------------|
| 58.450          | 58.134         | 41.591     | 0.766                    | 307.6                     |

## Vapor Phase Properties

| ITEM            | BTU/CF | Specific Gr. | Z Factor |
|-----------------|--------|--------------|----------|
| DRY             | 175.54 | 1.443        | 0.995    |
| WATER SATURATED | 173.43 | 1.430        | 0.994    |

## Onsite Testing by Stain Tube

| METHOD  | TYPE | MEAS VALUE | MOL%   | GRAINS/100 | PPMV    |
|---------|------|------------|--------|------------|---------|
| GPA2377 | H2S  | 0.55 VOL%  | 0.5930 | 376.53     | 5,986.8 |

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

| SAMPLE ID    |                           | COLLECTION DATA  |             |
|--------------|---------------------------|------------------|-------------|
| Operator     | Occidental Permian Ltd.   | Pressure         | 294 psig    |
| Location     | Central Measurement Group | Sample Temp      | N/A         |
| Site         | FE1022                    | Atm Temp         | 46 F        |
| Site Type    | Meter                     | Collection Date  | 03/14/2023  |
| Sample Point | SHU Battery 31C Meter Run | Collection Time  | 10:21 AM    |
| Spot/Comp    | Spot                      | Collection By    | Cody Carson |
| Meter ID     | FE1022                    | Pressure Base    | 14.650 psi  |
| Purchaser    |                           | Temperature Base | 60 F        |
| Fluid        | Gas                       | Container(s)     | PL1647      |

GPA 2261 Gas Fractional Analysis

| COMPOUND         | FORMULA | MOL%    | WT%     | GPM    |
|------------------|---------|---------|---------|--------|
| NITROGEN         | N2      | 2.195   | 1.481   | 0.241  |
| CARBON DIOXIDE   | CO2     | 85.083  | 90.200  | 14.504 |
| HYDROGEN SULFIDE | H2S     | 0.588   | 0.483   | 0.079  |
| METHANE          | C1      | 7.990   | 3.088   | 1.354  |
| ETHANE           | C2      | 1.240   | 0.898   | 0.332  |
| PROPANE          | C3      | 1.581   | 1.679   | 0.436  |
| I-BUTANE         | iC4     | 0.241   | 0.337   | 0.079  |
| N-BUTANE         | nC4     | 0.516   | 0.722   | 0.163  |
| I-PENTANE        | iC5     | 0.184   | 0.320   | 0.067  |
| N-PENTANE        | nC5     | 0.142   | 0.247   | 0.051  |
| HEXANES PLUS     | C6+     | 0.240   | 0.545   | 0.102  |
| TOTALS:          |         | 100.000 | 100.000 | 17.408 |

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

| LIQUID YIELD   | C2+   | C3+   | C4+   | C5+   | 26# Liquid | 10# Liquid |
|----------------|-------|-------|-------|-------|------------|------------|
| GAL/MSCF (GPM) | 1.230 | 0.898 | 0.462 | 0.220 | 0.335      | 0.192      |

GPA 2172/ASTM D3588 CALCULATED PROPERTIES

| WATER CONTENT   | BTU/CF | Specific Gr. | Z Factor | Mol Weight | Wobbe IDX |
|-----------------|--------|--------------|----------|------------|-----------|
| DRY             | 196.74 | 1.441        | 0.994    | 41.513     | 163.90    |
| WATER SATURATED | 194.27 | 1.427        | 0.994    | 40.788     |           |

Onsite Testing by Stain Tube

| METHOD  | TYPE | MEAS VALUE | MOL%   | GRAINS/100 | PPMV    |
|---------|------|------------|--------|------------|---------|
| GPA2377 | H2S  | 0.55 VOL%  | 0.5883 | 373.57     | 5,939.8 |

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

| SAMPLE ID    |                            | COLLECTION DATA  |               |
|--------------|----------------------------|------------------|---------------|
| Operator     | Occidental Permian Ltd.    | Pressure         | 304 psig      |
| Location     | Central Measurement Group  | Sample Temp      | N/A           |
| Site         | FE7100                     | Atm Temp         | 50 F          |
| Site Type    | Meter                      | Collection Date  | 03/14/2023    |
| Sample Point | North Hobbs to South Hobbs | Collection Time  | 11:05 AM      |
| Spot/Comp    | Spot                       | Collection By    | Mike McKinney |
| Meter ID     | FE7100                     | Pressure Base    | 14.650 psi    |
| Purchaser    |                            | Temperature Base | 60 F          |
| Fluid        | Gas                        | Container(s)     | PL0746        |

GPA 2261 Gas Fractional Analysis

| COMPOUND         | FORMULA | MOL%    | WT%     | GPM    |
|------------------|---------|---------|---------|--------|
| NITROGEN         | N2      | 2.234   | 1.508   | 0.245  |
| CARBON DIOXIDE   | CO2     | 85.049  | 90.198  | 14.498 |
| HYDROGEN SULFIDE | H2S     | 0.485   | 0.398   | 0.065  |
| METHANE          | C1      | 8.065   | 3.118   | 1.367  |
| ETHANE           | C2      | 1.247   | 0.904   | 0.334  |
| PROPANE          | C3      | 1.589   | 1.689   | 0.438  |
| I-BUTANE         | iC4     | 0.243   | 0.340   | 0.080  |
| N-BUTANE         | nC4     | 0.519   | 0.727   | 0.164  |
| I-PENTANE        | iC5     | 0.185   | 0.322   | 0.068  |
| N-PENTANE        | nC5     | 0.143   | 0.249   | 0.052  |
| HEXANES PLUS     | C6+     | 0.241   | 0.547   | 0.102  |
| TOTALS:          |         | 100.000 | 100.000 | 17.413 |

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

| LIQUID YIELD   | C2+   | C3+   | C4+   | C5+   | 26# Liquid | 10# Liquid |
|----------------|-------|-------|-------|-------|------------|------------|
| GAL/MSCF (GPM) | 1.238 | 0.904 | 0.466 | 0.222 | 0.337      | 0.193      |

GPA 2172/ASTM D3588 CALCULATED PROPERTIES

| WATER CONTENT   | BTU/CF | Specific Gr. | Z Factor | Mol Weight | Wobbe IDX |
|-----------------|--------|--------------|----------|------------|-----------|
| DRY             | 197.46 | 1.440        | 0.994    | 41.497     | 164.53    |
| WATER SATURATED | 194.97 | 1.427        | 0.994    | 40.772     |           |

Onsite Testing by Stain Tube

| METHOD  | TYPE | MEAS VALUE | MOL%   | GRAINS/100 | PPMV    |
|---------|------|------------|--------|------------|---------|
| GPA2377 | H2S  | 0.45 VOL%  | 0.4851 | 308.07     | 4,898.3 |

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

| SAMPLE ID    |                           | COLLECTION DATA  |               |
|--------------|---------------------------|------------------|---------------|
| Operator     | Occidental Permian Ltd.   | Pressure         | 262 psig      |
| Location     | Central Measurement Group | Sample Temp      | N/A           |
| Site         | SHU1013                   | Atm Temp         | 50 F          |
| Site Type    | Meter                     | Collection Date  | 03/14/2023    |
| Sample Point | SHRCF Plant Inlet         | Collection Time  | 11:03 AM      |
| Spot/Comp    | Spot                      | Collection By    | Mike McKinney |
| Meter ID     | SHU1013                   | Pressure Base    | 14.650 psi    |
| Purchaser    |                           | Temperature Base | 60 F          |
| Fluid        | Gas                       | Container(s)     | PL2248        |

GPA 2261 Gas Fractional Analysis

| COMPOUND         | FORMULA | MOL%    | WT%     | GPM    |
|------------------|---------|---------|---------|--------|
| NITROGEN         | N2      | 2.011   | 1.329   | 0.221  |
| CARBON DIOXIDE   | CO2     | 87.234  | 90.555  | 14.875 |
| HYDROGEN SULFIDE | H2S     | 0.539   | 0.433   | 0.073  |
| METHANE          | C1      | 5.524   | 2.090   | 0.937  |
| ETHANE           | C2      | 0.980   | 0.695   | 0.262  |
| PROPANE          | C3      | 1.706   | 1.774   | 0.470  |
| I-BUTANE         | iC4     | 0.395   | 0.542   | 0.129  |
| N-BUTANE         | nC4     | 0.885   | 1.213   | 0.279  |
| I-PENTANE        | iC5     | 0.273   | 0.465   | 0.100  |
| N-PENTANE        | nC5     | 0.193   | 0.328   | 0.070  |
| HEXANES PLUS     | C6+     | 0.260   | 0.576   | 0.110  |
| TOTALS:          |         | 100.000 | 100.000 | 17.526 |

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

| LIQUID YIELD   | C2+   | C3+   | C4+   | C5+   | 26# Liquid | 10# Liquid |
|----------------|-------|-------|-------|-------|------------|------------|
| GAL/MSCF (GPM) | 1.420 | 1.158 | 0.688 | 0.280 | 0.417      | 0.215      |

GPA 2172/ASTM D3588 CALCULATED PROPERTIES

| WATER CONTENT   | BTU/CF | Specific Gr. | Z Factor | Mol Weight | Wobbe IDX |
|-----------------|--------|--------------|----------|------------|-----------|
| DRY             | 193.75 | 1.472        | 0.994    | 42.396     | 159.69    |
| WATER SATURATED | 191.33 | 1.458        | 0.994    | 41.655     |           |

Onsite Testing by Stain Tube

| METHOD  | TYPE | MEAS VALUE | MOL%   | GRAINS/100 | PPMV    |
|---------|------|------------|--------|------------|---------|
| GPA2377 | H2S  | 0.50 VOL%  | 0.5391 | 342.30     | 5,442.6 |

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

## Order Description: South Hobbs RCF, Monthly Collection

| SAMPLE ID    |                         | COLLECTION DATA  |               |
|--------------|-------------------------|------------------|---------------|
| Operator     | Occidental Permian Ltd. | Pressure         | 246 psig      |
| Location     | South Hobbs RCF         | Sample Temp      | N/A           |
| Site         | DEX PRO                 | Atm Temp         | 50 F          |
| Site Type    | Station                 | Collection Date  | 03/14/2023    |
| Sample Point | Inlet                   | Collection Time  | 10:56 AM      |
| Spot/Comp    | Spot                    | Collection By    | Mike McKinney |
| Meter ID     |                         | Pressure Base    | 14.650 psi    |
| Purchaser    |                         | Temperature Base | 60 F          |
| Fluid        | Gas                     | Container(s)     | PL1916        |

## GPA 2261 Gas Fractional Analysis

| COMPOUND         | FORMULA | MOL%    | WT%     | GPM    |
|------------------|---------|---------|---------|--------|
| NITROGEN         | N2      | 1.954   | 1.290   | 0.214  |
| CARBON DIOXIDE   | CO2     | 87.426  | 90.708  | 14.907 |
| HYDROGEN SULFIDE | H2S     | 0.431   | 0.346   | 0.058  |
| METHANE          | C1      | 5.513   | 2.085   | 0.935  |
| ETHANE           | C2      | 0.967   | 0.686   | 0.259  |
| PROPANE          | C3      | 1.684   | 1.751   | 0.464  |
| I-BUTANE         | iC4     | 0.419   | 0.574   | 0.137  |
| N-BUTANE         | nC4     | 0.887   | 1.215   | 0.280  |
| I-PENTANE        | iC5     | 0.279   | 0.475   | 0.102  |
| N-PENTANE        | nC5     | 0.197   | 0.335   | 0.071  |
| HEXANES PLUS     | C6+     | 0.243   | 0.535   | 0.103  |
| TOTALS:          |         | 100.000 | 100.000 | 17.530 |

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

| LIQUID YIELD   | C2+   | C3+   | C4+   | C5+   | 26# Liquid | 10# Liquid |
|----------------|-------|-------|-------|-------|------------|------------|
| GAL/MSCF (GPM) | 1.416 | 1.157 | 0.693 | 0.276 | 0.409      | 0.202      |

## GPA 2172/ASTM D3588 CALCULATED PROPERTIES

| WATER CONTENT   | BTU/CF | Specific Gr. | Z Factor | Mol Weight | Wobbe IDX |
|-----------------|--------|--------------|----------|------------|-----------|
| DRY             | 192.48 | 1.473        | 0.994    | 42.418     | 158.61    |
| WATER SATURATED | 190.08 | 1.459        | 0.994    | 41.677     |           |

## Onsite Testing by Stain Tube

| METHOD  | TYPE | MEAS VALUE | MOL%   | GRAINS/100 | PPMV    |
|---------|------|------------|--------|------------|---------|
| GPA2377 | H2S  | 0.40 VOL%  | 0.4312 | 273.84     | 4,354.1 |

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

Pantechs Laboratories, Inc. - Order: 73-4337 - Order Date: 3/14/2023

## Order Description: South Hobbs RCF, Monthly Collection

| SAMPLE ID    |                         | COLLECTION DATA  |               |
|--------------|-------------------------|------------------|---------------|
| Operator     | Occidental Permian Ltd. | Pressure         | 237 psig      |
| Location     | South Hobbs RCF         | Sample Temp      | N/A           |
| Site         | DEX PRO                 | Atm Temp         | 50 F          |
| Site Type    | Station                 | Collection Date  | 03/14/2023    |
| Sample Point | Outlet                  | Collection Time  | 10:57 AM      |
| Spot/Comp    | Spot                    | Collection By    | Mike McKinney |
| Meter ID     |                         | Pressure Base    | 14.650 psi    |
| Purchaser    |                         | Temperature Base | 60 F          |
| Fluid        | Gas                     | Container(s)     | PL1117        |

## GPA 2261 Gas Fractional Analysis

| COMPOUND         | FORMULA | MOL%    | WT%     | GPM    |
|------------------|---------|---------|---------|--------|
| NITROGEN         | N2      | 2.004   | 1.329   | 0.220  |
| CARBON DIOXIDE   | CO2     | 87.994  | 91.667  | 15.002 |
| HYDROGEN SULFIDE | H2S     | 0.431   | 0.348   | 0.058  |
| METHANE          | C1      | 5.505   | 2.091   | 0.933  |
| ETHANE           | C2      | 0.966   | 0.688   | 0.258  |
| PROPANE          | C3      | 1.628   | 1.699   | 0.449  |
| I-BUTANE         | iC4     | 0.367   | 0.505   | 0.120  |
| N-BUTANE         | nC4     | 0.744   | 1.024   | 0.235  |
| I-PENTANE        | iC5     | 0.178   | 0.304   | 0.065  |
| N-PENTANE        | nC5     | 0.112   | 0.191   | 0.041  |
| HEXANES PLUS     | C6+     | 0.071   | 0.154   | 0.030  |
| TOTALS:          |         | 100.000 | 100.000 | 17.411 |

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

| LIQUID YIELD   | C2+   | C3+   | C4+   | C5+   | 26# Liquid | 10# Liquid |
|----------------|-------|-------|-------|-------|------------|------------|
| GAL/MSCF (GPM) | 1.198 | 0.940 | 0.491 | 0.136 | 0.192      | 0.066      |

## GPA 2172/ASTM D3588 CALCULATED PROPERTIES

| WATER CONTENT   | BTU/CF | Specific Gr. | Z Factor | Mol Weight | Wobbe IDX |
|-----------------|--------|--------------|----------|------------|-----------|
| DRY             | 168.21 | 1.466        | 0.994    | 42.246     | 138.91    |
| WATER SATURATED | 166.23 | 1.452        | 0.994    | 41.508     |           |

## Onsite Testing by Stain Tube

| METHOD  | TYPE | MEAS VALUE | MOL%   | GRAINS/100 | PPMV    |
|---------|------|------------|--------|------------|---------|
| GPA2377 | H2S  | 0.40 VOL%  | 0.4312 | 273.84     | 4,354.1 |

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



Order Description: South Hobbs RCF, Monthly Collection

| SAMPLE ID    |                         | COLLECTION DATA  |               |
|--------------|-------------------------|------------------|---------------|
| Operator     | Occidental Permian Ltd. | Pressure         | 250 psig      |
| Location     | South Hobbs RCF         | Sample Temp      | N/A           |
| Site         | DEX PRO                 | Atm Temp         | 50 F          |
| Site Type    | Station                 | Collection Date  | 03/14/2023    |
| Sample Point | Gasoline                | Collection Time  | 10:55 AM      |
| Spot/Comp    | Spot                    | Collection By    | Mike McKinney |
| Meter ID     |                         | Pressure Base    | 14.650 psi    |
| Purchaser    |                         | Temperature Base | 60 F          |
| Fluid        | Liquid                  | Container(s)     | PL0714        |

GPA 2177 Liquid Fractional Analysis

| COMPOUND         | FORMULA | MOL%    | VOL%    | WT%     |
|------------------|---------|---------|---------|---------|
| NITROGEN         | N2      | 0.021   | 0.008   | 0.010   |
| CARBON DIOXIDE   | CO2     | 42.450  | 26.339  | 31.942  |
| HYDROGEN SULFIDE | H2S     | 0.412   | 0.202   | 0.240   |
| METHANE          | C1      | 0.394   | 0.243   | 0.108   |
| ETHANE           | C2      | 0.801   | 0.780   | 0.412   |
| PROPANE          | C3      | 6.816   | 6.837   | 5.139   |
| I-BUTANE         | iC4     | 4.444   | 5.292   | 4.416   |
| N-BUTANE         | nC4     | 13.213  | 15.165  | 13.131  |
| I-PENTANE        | iC5     | 8.764   | 11.679  | 10.811  |
| N-PENTANE        | nC5     | 7.306   | 9.633   | 9.013   |
| HEXANES PLUS     | C6+     | 15.379  | 23.822  | 24.778  |
| TOTALS:          |         | 100.000 | 100.000 | 100.000 |

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

Calculated Properties

| SCF/Gal (Ideal) | SCF/Gal (Real) | Mol Weight | Relative Density (60/60) | Vapor Pressure 100F, psia | Reid VP Equivalent, psi |
|-----------------|----------------|------------|--------------------------|---------------------------|-------------------------|
| 36.605          | 35.632         | 58.487     | 0.675                    | 54.2                      | 51.4                    |



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**UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM****Facility:** South Hobbs Recompression Facility**Flare Date:** 8/22/2024**Duration of event:** 33 Minutes**MCF Flared:** 709**Start Time:** 05:15 PM**End Time:** 05:48 PM**Cause:** Emergency Flare > Train "C" Compression Malfunction > Equipment Shut Down > High Discharge Pressure**Method of Flared Gas Measurement:** Gas Flare Meter**Comments:** This upset event was not caused by any wells associated with the facility

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**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 equipment preventative maintenance program. Internal OXY procedures ensure that upon a gas compressor unit shutdown, production techs are promptly notified via an equipment alarm notification app and are trained to respond immediately in order to assess the issue as soon as possible, so that prompt corrective actions are taken to minimize emissions. In this case, Train C had shut down on 2<sup>nd</sup> stage high discharge pressure due to inlet of the plant pressuring up and triggered a flaring event. This event is out of OXY's control yet OXY made every effort to control and minimize emissions as much as possible.

**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 case, the steps taken to limit duration and magnitude of flaring was for Oxy plant operators to quickly respond to the compression equipment alarms, inspect the unit, clear the alarm and restart the unit. OXY routed all the stranded sales gas to a flare with a 98% combustion efficiency to lessen emissions as much as possible. "C" train gas compression was working as designed and operated normally prior to the sudden and without warning malfunction. To limit flaring duration, the loop line was cut back to reduce rates and reset the unit to be put back online. 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. For this event, the unit was restarted once the loop line flow was cut back to prevent plant inlet from being over pressured and causing compressor shut down. 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. Other 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 occur suddenly and without warning.

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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

DEFINITIONS  
  
Action 391790

DEFINITIONS

|                                                                               |                                                               |
|-------------------------------------------------------------------------------|---------------------------------------------------------------|
| Operator:<br>OCCIDENTAL PERMIAN LTD<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>157984                                              |
|                                                                               | Action Number:<br>391790                                      |
|                                                                               | Action Type:<br>[C-129] Amend Venting and/or Flaring (C-129A) |

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 391790

QUESTIONS

|                                                                               |                                                               |
|-------------------------------------------------------------------------------|---------------------------------------------------------------|
| Operator:<br>OCCIDENTAL PERMIAN LTD<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>157984                                              |
|                                                                               | Action Number:<br>391790                                      |
|                                                                               | Action Type:<br>[C-129] Amend Venting and/or Flaring (C-129A) |

QUESTIONS

|                                                                                                                                                                                                   |                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| <b>Prerequisites</b><br>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.        |                                       |
| Incident ID (n#)                                                                                                                                                                                  | Unavailable.                          |
| Incident Name                                                                                                                                                                                     | Unavailable.                          |
| Incident Type                                                                                                                                                                                     | Flare                                 |
| Incident Status                                                                                                                                                                                   | Unavailable.                          |
| Incident Facility                                                                                                                                                                                 | [fJXK1530631838] SOUTH HOBBS UNIT RCF |
| 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. |                                       |

|                                                                                                                                                                                                                                                                                     |                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <b>Determination of Reporting Requirements</b><br>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.                                                                                               |                                                   |
| Was this vent or flare caused by an emergency or malfunction                                                                                                                                                                                                                        | Yes                                               |
| Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event                                                                                                                                                                          | No                                                |
| Is this considered a submission for a vent or flare event                                                                                                                                                                                                                           | Yes, major venting and/or flaring of natural gas. |
| An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during venting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.                                                                                     |                                                   |
| Was there at least 50 MCF of natural gas vented and/or flared during this event                                                                                                                                                                                                     | Yes                                               |
| Did this vent or flare result in the release of 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                                                |

|                                                           |                                                                                                     |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Equipment Involved</b>                                 |                                                                                                     |
| Primary Equipment Involved                                | Other (Specify)                                                                                     |
| Additional details for Equipment Involved. Please specify | Emergency Flare > Train "C" Compression Malfunction > Equipment Shut Down > High Discharge Pressure |

|                                                                                                                                                             |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| <b>Representative Compositional Analysis of Vented or Flared Natural Gas</b><br>Please provide the mole percent for the percentage questions in this group. |       |
| Methane (CH4) percentage                                                                                                                                    | 6     |
| Nitrogen (N2) percentage, if greater than one percent                                                                                                       | 2     |
| Hydrogen Sulfide (H2S) PPM, rounded up                                                                                                                      | 4,310 |
| Carbon Dioxide (CO2) percentage, if greater than one percent                                                                                                | 87    |
| Oxygen (O2) percentage, if greater than one percent                                                                                                         | 0     |
| If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.                               |       |
| Methane (CH4) percentage quality requirement                                                                                                                | 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 391790

QUESTIONS (continued)

|                                                                               |                                                               |
|-------------------------------------------------------------------------------|---------------------------------------------------------------|
| Operator:<br>OCCIDENTAL PERMIAN LTD<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>157984                                              |
|                                                                               | Action Number:<br>391790                                      |
|                                                                               | Action Type:<br>[C-129] Amend Venting and/or Flaring (C-129A) |

QUESTIONS

| Date(s) and Time(s)                            |            |
|------------------------------------------------|------------|
| Date vent or flare was discovered or commenced | 08/22/2024 |
| Time vent or flare was discovered or commenced | 05:15 PM   |
| Time vent or flare was terminated              | 05:48 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: 709 MCF   Recovered: 0 MCF   Lost: 709 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 | 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 | 12:00 AM |

| 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 equipment preventative maintenance program. Internal OXY procedures ensure that upon a gas compressor unit shutdown, production techs are promptly notified via an equipment alarm notification app and are trained to respond immediately in order to assess the issue as soon as possible, so that prompt corrective actions are taken to minimize emissions. In this case, Train C had shut down on 2nd stage high discharge pressure due to inlet of the plant pressuring up and triggered a flaring event. This event is out of OXY's control yet OXY made every effort to control and minimize emissions as much as possible. |
| Steps taken to limit the duration and magnitude of vent or flare                                                                | 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 case, the steps taken to limit duration and magnitude of flaring was for Oxy plant operators to quickly respond to the compression equipment alarms, inspect the unit, clear the alarm and restart the unit. OXY routed all the stranded sales gas to a flare with a 98% combustion efficiency to lessen emissions as                                                                                                                                                                                                                                                                                                                                                  |

|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                   | <p>much as possible. "C" train gas compression was working as designed and operated normally prior to the sudden and without warning malfunction. To limit flaring duration, the loop line was cut back to reduce rates and reset the unit to be put back online. OXY made every effort to control and minimize emissions as much as possible during this event.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Corrective actions taken to eliminate the cause and reoccurrence of vent or flare | <p>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. For this event, the unit was restarted once the loop line flow was cut back to prevent plant inlet from being over pressured and causing compressor shut down. 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. Other 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 occur suddenly and without warning.</p> |

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ACKNOWLEDGMENTS  
  
Action 391790

ACKNOWLEDGMENTS

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|                                                                               | 157984         |
|                                                                               | Action Number: |
|                                                                               | 391790         |
| Action Type:                                                                  |                |
| [C-129] Amend Venting and/or Flaring (C-129A)                                 |                |

ACKNOWLEDGMENTS

|                                     |                                                                                                                                                                                                                                                                                                     |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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 391790

CONDITIONS

|                                                                               |                                                               |
|-------------------------------------------------------------------------------|---------------------------------------------------------------|
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|                                                                               | Action Number:<br>391790                                      |
|                                                                               | Action Type:<br>[C-129] Amend Venting and/or Flaring (C-129A) |

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. | 10/10/2024     |