

**EVENT SPECIFIC JUSTIFICATIONS FORM****Facility:** South Hobbs Plant**Start Date:** 01/07/2022 @ 05:13 AM**End Date:** 01/07/2022 @ 05:33 AM**Cause:** THE NORTH PLANT FLARED DUE TO TRAIN "A" SHUT DOWN ON CYLINDER LUBE NO FLOW.**Duration of event:** 0:20 hours**Flared MCF:** 300**Method of Flared Gas Measurement:** Flare Meter

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**1. Reason why this event was beyond Operator's control:**

The emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable breakdown of equipment or process that was beyond the owner/operator's control, and did not stem from activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. It is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The flare is regularly monitored to ensure flame is lit and meeting opacity requirements.

This event was a sudden and unforeseeable compressor malfunction of the South Hobbs Plant. Oxy operators were alerted to a malfunction of "A" Train compressor unit when the unit shut down on cylinder lube no flow. An alarm started going off indicating no lubrication was going to the compressor and a malfunction of the unit. Operators went out to the unit and noticed that a malfunction alarm was occurring. An Oxy operator quickly arrived at the facility and began to immediately inspect the unit and reading the alarm pressures. Oxy operator determined that the compressor unit would need to be restarted. With the unit shutting down the malfunctioning compressor unit triggered a flaring event. After thoroughly inspecting the compressor unit, a lubrication no flow can happen suddenly and without warning, regardless of good preventative maintenance practices and programs. Oxy operators inspected the compressor unit thoroughly for any other possible reasons the compressor unit might be getting a lubrication no flow to the compressor. After inspecting and troubleshooting the compressor unit, the Oxy operator brought the unit back to normal working service. OXY personnel were in place and available at the facility location when compressor unit was returned to working service.

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 made every effort to control and minimize emissions as much as possible during this event.

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

The emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable breakdown of equipment or process that was beyond the owner/operator's control, and did not stem from activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. It is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The flare is regularly monitored to ensure flame is lit and meeting opacity requirements.

In this case, the steps taken to limit duration and magnitude of flaring was for Oxy operators to quickly respond to the compression equipment malfunction alarms by quickly acknowledging the alarm on the compressor unit and that a malfunction alarm was occurring. An Oxy operator quickly arrived at the facility and began to immediately inspect the unit and reading the alarm pressures. Oxy operator determined that the compressor unit would need to be restarted, but before he needed to perform a thorough inspection of the unit to determine exact cause pressure alarms. OXY operators worked efficiently to the shut down of the malfunctioning compressor unit triggered a flaring event. In addition to "A" train unit shutting down, OXY routed all the stranded sales gas to a flare with a 98% combustion efficiency in order to lessen emissions as much as possible. The flare is regularly monitored to ensure the flame is lit and meeting opacity requirements. After thoroughly inspecting the malfunctioning compressor unit, Oxy operator determined that the shutdown was caused by no lubrication to the compressor. Lubrication issues can trigger a shutdown by trash or air pockets in the line shutting down a compressor suddenly and without warning, regardless of good preventative maintenance practices and programs. Oxy operators inspected the compressor unit thoroughly for any other possible reasons the compressor unit might be getting a no flow alarm. After inspecting and troubleshooting the compressor unit, the Oxy operators brought the unit back to normal working service.

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 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:**

The emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable breakdown of equipment or process that was beyond the owner/operator's control, and did not stem from activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. It is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The flare is regularly monitored to ensure the flame is lit and meeting opacity requirements.

Oxy cannot take any corrective actions to eliminate the cause and potential reoccurrence of compressor malfunctions 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 its facility equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events. The compressor was working as designed and operated normally prior to the sudden and without warning malfunction of the compressor unit. Oxy has a strong and positive compression equipment preventative maintenance program in place. This incident was completely out of OXY's control to prevent from happening as it was determined the malfunction occurred due to a no flow alarm indicating no lubrication was flowing on the compressor. Trash or air pockets can cause a shutdown suddenly and without warning, regardless of good preventative maintenance practices and programs. OXY made every effort to control and minimize emissions as much as possible during this event. The only actions that Oxy can take and handle that is within its control, is to keep continue with its compression equipment preventative maintenance program for this unit.

**PANTECHS LABORATORIES, INC.**

*Leaders in Petroleum Analytical Services*  
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# Analytical Report

3/24/2022

|                     |                         |                         |                 |
|---------------------|-------------------------|-------------------------|-----------------|
| <b>Customer:</b>    | Occidental Permian Ltd. | <b>Order:</b>           | 337-3026        |
| <b>Location:</b>    | South Hobbs RCF         | <b>Received:</b>        | 3/21/2022       |
| <b>Description:</b> | Monthly Collection      | <b>Primary Contact:</b> | Richard Sanders |

**REPORT DISTRIBUTION:**

Brian Carlisle , Chauncia Farayola , Chip Mitchell , Dillon Hart , Erica Zuniga , Femi Serrano , Jason Cary , Jason Sisson , Justin Saxon , Kenley Powell , Kevin Mulkern , Mario Guerrero , Mellitanya Stephenson , Richard Sanders , Shelby Schoepf

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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: 337-3026 Order Date: 3/21/2022****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  | 3/21/2022 | 11:54 AM |
| Gas    | Occidental Permian Ltd. | Central Measurement Group | FE1022  | SHU Battery 31C Meter Run  | 3/21/2022 | 12:10 PM |
| Gas    | Occidental Permian Ltd. | Central Measurement Group | FE7100  | North Hobbs to South Hobbs | 3/21/2022 | 11:27 AM |
| Gas    | Occidental Permian Ltd. | Central Measurement Group | SHU1013 | SHRCF Plant Inlet          | 3/21/2022 | 11:46 AM |
| Gas    | Occidental Permian Ltd. | South Hobbs RCF           | DEX PRO | Inlet                      | 3/21/2022 | 11:39 AM |
| Gas    | Occidental Permian Ltd. | South Hobbs RCF           | DEX PRO | Outlet                     | 3/21/2022 | 11:38 AM |
| Liquid | Occidental Permian Ltd. | South Hobbs RCF           | DEX PRO | Gasoline                   | 3/21/2022 | 11:32 AM |

**No Sample List**

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

Pantechs Laboratories, Inc. - Order: 337-3026 - Order Date: 3/21/2022

Order Description: South Hobbs RCF, Monthly Collection

| SAMPLE ID    |                           | COLLECTION DATA  |             |
|--------------|---------------------------|------------------|-------------|
| Operator     | Occidental Permian Ltd.   | Pressure         | 1614 psig   |
| Location     | Central Measurement Group | Sample Temp      | N/A         |
| Site         | SHU7200                   | Atm Temp         | 67 F        |
| Site Type    | Meter                     | Collection Date  | 03/21/2022  |
| Sample Point | SHRCF Plant CO2 Discharge | Collection Time  | 11:54 AM    |
| Spot/Comp    | Spot                      | Collection By    | Cody Carson |
| Meter ID     | SHU7200                   | Pressure Base    | 14.650 psi  |
| Purchaser    |                           | Temperature Base | 60 F        |
| Fluid        | CO2                       | Container(s)     | YZ1750      |

## GPA 2177 CO2 Fractional Analysis

| COMPOUND         | FORMULA | MOL%    | VOL%    | WT%     |
|------------------|---------|---------|---------|---------|
| NITROGEN         | N2      | 2.687   | 1.715   | 1.800   |
| CARBON DIOXIDE   | CO2     | 87.219  | 86.556  | 91.782  |
| HYDROGEN SULFIDE | H2S     | 1.225   | 0.961   | 0.998   |
| METHANE          | C1      | 5.964   | 5.886   | 2.288   |
| ETHANE           | C2      | 0.811   | 1.263   | 0.583   |
| PROPANE          | C3      | 1.242   | 1.993   | 1.310   |
| I-BUTANE         | iC4     | 0.241   | 0.459   | 0.335   |
| N-BUTANE         | nC4     | 0.466   | 0.855   | 0.648   |
| I-PENTANE        | iC5     | 0.080   | 0.171   | 0.138   |
| N-PENTANE        | nC5     | 0.047   | 0.099   | 0.081   |
| HEXANES PLUS     | C6+     | 0.018   | 0.043   | 0.037   |
| 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 |
|-----------------|----------------|------------|--------------------------|---------------------------|
| 58.543          | 58.222         | 41.822     | 0.771                    | 1,492.1                   |

## Vapor Phase Properties

| ITEM            | BTU/CF | Specific Gr. | Z Factor |
|-----------------|--------|--------------|----------|
| DRY             | 142.95 | 1.451        | 0.995    |
| WATER SATURATED | 141.40 | 1.438        | 0.994    |

## Onsite Testing by Stain Tube

| METHOD  | TYPE | MOL%   | GRAINS/100 | PPMV     |
|---------|------|--------|------------|----------|
| GPA2377 | H2S  | 1.2254 | 778.16     | 12,372.7 |

Pantechs Laboratories, Inc. - Order: 337-3026 - Order Date: 3/21/2022

## Order Description: South Hobbs RCF, Monthly Collection

| SAMPLE ID    |                           | COLLECTION DATA  |             |
|--------------|---------------------------|------------------|-------------|
| Operator     | Occidental Permian Ltd.   | Pressure         | 323 psig    |
| Location     | Central Measurement Group | Sample Temp      | N/A         |
| Site         | FE1022                    | Atm Temp         | 63 F        |
| Site Type    | Meter                     | Collection Date  | 03/21/2022  |
| Sample Point | SHU Battery 31C Meter Run | Collection Time  | 12:10 PM    |
| Spot/Comp    | Spot                      | Collection By    | Cody Carson |
| Meter ID     | FE1022                    | Pressure Base    | 14.650 psi  |
| Purchaser    |                           | Temperature Base | 60 F        |
| Fluid        | Gas                       | Container(s)     | PL2471      |

## GPA 2261 Gas Fractional Analysis

| COMPOUND         | FORMULA | MOL%    | WT%     | GPM    |
|------------------|---------|---------|---------|--------|
| NITROGEN         | N2      | 1.956   | 1.281   | 0.215  |
| CARBON DIOXIDE   | CO2     | 91.003  | 93.596  | 15.515 |
| HYDROGEN SULFIDE | H2S     | 0.442   | 0.352   | 0.060  |
| METHANE          | C1      | 3.870   | 1.451   | 0.656  |
| ETHANE           | C2      | 0.600   | 0.422   | 0.161  |
| PROPANE          | C3      | 0.919   | 0.947   | 0.253  |
| I-BUTANE         | iC4     | 0.207   | 0.281   | 0.068  |
| N-BUTANE         | nC4     | 0.464   | 0.630   | 0.146  |
| I-PENTANE        | iC5     | 0.166   | 0.280   | 0.061  |
| N-PENTANE        | nC5     | 0.137   | 0.231   | 0.050  |
| HEXANES PLUS     | C6+     | 0.236   | 0.529   | 0.101  |
| TOTALS:          |         | 100.000 | 100.000 | 17.286 |

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) | 0.840 | 0.679 | 0.426 | 0.212 | 0.324      | 0.194      |

| CALCULATED PROPERTIES | BTU/CF | Specific Gr. | Z Factor | Mol Weight | Wobbe IDX |
|-----------------------|--------|--------------|----------|------------|-----------|
| DRY                   | 122.31 | 1.485        | 0.994    | 42.790     | 100.36    |
| WATER SATURATED       | 121.11 | 1.471        | 0.994    | 42.043     |           |

## Onsite Testing by Stain Tube

| METHOD  | TYPE | MOL%   | GRAINS/100 | PPMV    |
|---------|------|--------|------------|---------|
| GPA2377 | H2S  | 0.4422 | 280.82     | 4,465.0 |

Pantechs Laboratories, Inc. - Order: 337-3026 - Order Date: 3/21/2022

## Order Description: South Hobbs RCF, Monthly Collection

| SAMPLE ID    |                            | COLLECTION DATA  |             |
|--------------|----------------------------|------------------|-------------|
| Operator     | Occidental Permian Ltd.    | Pressure         | 318 psig    |
| Location     | Central Measurement Group  | Sample Temp      | N/A         |
| Site         | FE7100                     | Atm Temp         | 67 F        |
| Site Type    | Meter                      | Collection Date  | 03/21/2022  |
| Sample Point | North Hobbs to South Hobbs | Collection Time  | 11:27 AM    |
| Spot/Comp    | Spot                       | Collection By    | Cody Carson |
| Meter ID     | FE7100                     | Pressure Base    | 14.650 psi  |
| Purchaser    |                            | Temperature Base | 60 F        |
| Fluid        | Gas                        | Container(s)     | PL2236      |

## GPA 2261 Gas Fractional Analysis

| COMPOUND         | FORMULA | MOL%    | WT%     | GPM    |
|------------------|---------|---------|---------|--------|
| NITROGEN         | N2      | 2.160   | 1.415   | 0.237  |
| CARBON DIOXIDE   | CO2     | 90.717  | 93.337  | 15.466 |
| HYDROGEN SULFIDE | H2S     | 0.468   | 0.373   | 0.063  |
| METHANE          | C1      | 3.872   | 1.452   | 0.656  |
| ETHANE           | C2      | 0.596   | 0.419   | 0.159  |
| PROPANE          | C3      | 0.922   | 0.951   | 0.254  |
| I-BUTANE         | iC4     | 0.213   | 0.289   | 0.070  |
| N-BUTANE         | nC4     | 0.476   | 0.647   | 0.150  |
| I-PENTANE        | iC5     | 0.173   | 0.292   | 0.063  |
| N-PENTANE        | nC5     | 0.141   | 0.238   | 0.051  |
| HEXANES PLUS     | C6+     | 0.262   | 0.587   | 0.112  |
| TOTALS:          |         | 100.000 | 100.000 | 17.281 |

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) | 0.859 | 0.700 | 0.446 | 0.226 | 0.348      | 0.212      |

| CALCULATED PROPERTIES | BTU/CF | Specific Gr. | Z Factor | Mol Weight | Wobbe IDX |
|-----------------------|--------|--------------|----------|------------|-----------|
| DRY                   | 124.90 | 1.485        | 0.994    | 42.774     | 102.50    |
| WATER SATURATED       | 123.65 | 1.470        | 0.994    | 42.027     |           |

## Onsite Testing by Stain Tube

| METHOD  | TYPE | MOL%   | GRAINS/100 | PPMV    |
|---------|------|--------|------------|---------|
| GPA2377 | H2S  | 0.4679 | 297.11     | 4,724.0 |

Pantechs Laboratories, Inc. - Order: 337-3026 - Order Date: 3/21/2022

## Order Description: South Hobbs RCF, Monthly Collection

| SAMPLE ID    |                           | COLLECTION DATA  |             |
|--------------|---------------------------|------------------|-------------|
| Operator     | Occidental Permian Ltd.   | Pressure         | 293 psig    |
| Location     | Central Measurement Group | Sample Temp      | N/A         |
| Site         | SHU1013                   | Atm Temp         | 67 F        |
| Site Type    | Meter                     | Collection Date  | 03/21/2022  |
| Sample Point | SHRCF Plant Inlet         | Collection Time  | 11:46 AM    |
| Spot/Comp    | Spot                      | Collection By    | Cody Carson |
| Meter ID     | SHU1013                   | Pressure Base    | 14.650 psi  |
| Purchaser    |                           | Temperature Base | 60 F        |
| Fluid        | Gas                       | Container(s)     | PL2055      |

## GPA 2261 Gas Fractional Analysis

| COMPOUND         | FORMULA | MOL%    | WT%     | GPM    |
|------------------|---------|---------|---------|--------|
| NITROGEN         | N2      | 1.720   | 1.121   | 0.189  |
| CARBON DIOXIDE   | CO2     | 89.482  | 91.640  | 15.260 |
| HYDROGEN SULFIDE | H2S     | 0.501   | 0.397   | 0.068  |
| METHANE          | C1      | 3.936   | 1.469   | 0.667  |
| ETHANE           | C2      | 0.686   | 0.480   | 0.184  |
| PROPANE          | C3      | 1.442   | 1.480   | 0.398  |
| I-BUTANE         | iC4     | 0.446   | 0.603   | 0.146  |
| N-BUTANE         | nC4     | 1.005   | 1.359   | 0.317  |
| I-PENTANE        | iC5     | 0.313   | 0.525   | 0.115  |
| N-PENTANE        | nC5     | 0.218   | 0.366   | 0.079  |
| HEXANES PLUS     | C6+     | 0.251   | 0.560   | 0.108  |
| TOTALS:          |         | 100.000 | 100.000 | 17.531 |

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) | 1.347 | 1.163 | 0.765 | 0.302 | 0.446      | 0.220      |

| CALCULATED PROPERTIES | BTU/CF | Specific Gr. | Z Factor | Mol Weight | Wobbe IDX |
|-----------------------|--------|--------------|----------|------------|-----------|
| DRY                   | 173.55 | 1.492        | 0.994    | 42.974     | 142.07    |
| WATER SATURATED       | 171.47 | 1.478        | 0.994    | 42.223     |           |

## Onsite Testing by Stain Tube

| METHOD  | TYPE | MOL%   | GRAINS/100 | PPMV    |
|---------|------|--------|------------|---------|
| GPA2377 | H2S  | 0.5013 | 318.34     | 5,061.6 |

Pantechs Laboratories, Inc. - Order: 337-3026 - Order Date: 3/21/2022

## Order Description: South Hobbs RCF, Monthly Collection

| SAMPLE ID    |                         | COLLECTION DATA  |             |
|--------------|-------------------------|------------------|-------------|
| Operator     | Occidental Permian Ltd. | Pressure         | 277 psig    |
| Location     | South Hobbs RCF         | Sample Temp      | N/A         |
| Site         | DEX PRO                 | Atm Temp         | 67 F        |
| Site Type    | Station                 | Collection Date  | 03/21/2022  |
| Sample Point | Inlet                   | Collection Time  | 11:39 AM    |
| Spot/Comp    | Spot                    | Collection By    | Cody Carson |
| Meter ID     |                         | Pressure Base    | 14.650 psi  |
| Purchaser    |                         | Temperature Base | 60 F        |
| Fluid        | Gas                     | Container(s)     | PL1860      |

## GPA 2261 Gas Fractional Analysis

| COMPOUND         | FORMULA | MOL%    | WT%     | GPM    |
|------------------|---------|---------|---------|--------|
| NITROGEN         | N2      | 1.761   | 1.149   | 0.193  |
| CARBON DIOXIDE   | CO2     | 89.430  | 91.639  | 15.251 |
| HYDROGEN SULFIDE | H2S     | 0.557   | 0.442   | 0.075  |
| METHANE          | C1      | 3.930   | 1.468   | 0.666  |
| ETHANE           | C2      | 0.693   | 0.485   | 0.185  |
| PROPANE          | C3      | 1.432   | 1.470   | 0.395  |
| I-BUTANE         | iC4     | 0.448   | 0.606   | 0.147  |
| N-BUTANE         | nC4     | 0.997   | 1.349   | 0.315  |
| I-PENTANE        | iC5     | 0.306   | 0.514   | 0.112  |
| N-PENTANE        | nC5     | 0.212   | 0.356   | 0.077  |
| HEXANES PLUS     | C6+     | 0.234   | 0.522   | 0.100  |
| TOTALS:          |         | 100.000 | 100.000 | 17.516 |

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) | 1.331 | 1.146 | 0.751 | 0.289 | 0.426      | 0.206      |

| CALCULATED PROPERTIES | BTU/CF | Specific Gr. | Z Factor | Mol Weight | Wobbe IDX |
|-----------------------|--------|--------------|----------|------------|-----------|
| DRY                   | 172.11 | 1.491        | 0.994    | 42.950     | 140.93    |
| WATER SATURATED       | 170.06 | 1.477        | 0.994    | 42.199     |           |

## Onsite Testing by Stain Tube

| METHOD  | TYPE | MOL%   | GRAINS/100 | PPMV    |
|---------|------|--------|------------|---------|
| GPA2377 | H2S  | 0.5570 | 353.71     | 5,624.0 |

Pantechs Laboratories, Inc. - Order: 337-3026 - Order Date: 3/21/2022

## Order Description: South Hobbs RCF, Monthly Collection

| SAMPLE ID    |                         | COLLECTION DATA  |             |
|--------------|-------------------------|------------------|-------------|
| Operator     | Occidental Permian Ltd. | Pressure         | 264 psig    |
| Location     | South Hobbs RCF         | Sample Temp      | N/A         |
| Site         | DEX PRO                 | Atm Temp         | 67 F        |
| Site Type    | Station                 | Collection Date  | 03/21/2022  |
| Sample Point | Outlet                  | Collection Time  | 11:38 AM    |
| Spot/Comp    | Spot                    | Collection By    | Cody Carson |
| Meter ID     |                         | Pressure Base    | 14.650 psi  |
| Purchaser    |                         | Temperature Base | 60 F        |
| Fluid        | Gas                     | Container(s)     | PL3026      |

## GPA 2261 Gas Fractional Analysis

| COMPOUND         | FORMULA | MOL%    | WT%     | GPM    |
|------------------|---------|---------|---------|--------|
| NITROGEN         | N2      | 1.904   | 1.249   | 0.209  |
| CARBON DIOXIDE   | CO2     | 90.130  | 92.915  | 15.367 |
| HYDROGEN SULFIDE | H2S     | 0.557   | 0.445   | 0.075  |
| METHANE          | C1      | 4.009   | 1.507   | 0.680  |
| ETHANE           | C2      | 0.689   | 0.485   | 0.184  |
| PROPANE          | C3      | 1.317   | 1.360   | 0.363  |
| I-BUTANE         | iC4     | 0.359   | 0.489   | 0.117  |
| N-BUTANE         | nC4     | 0.723   | 0.984   | 0.228  |
| I-PENTANE        | iC5     | 0.152   | 0.257   | 0.056  |
| N-PENTANE        | nC5     | 0.091   | 0.154   | 0.033  |
| HEXANES PLUS     | C6+     | 0.069   | 0.155   | 0.030  |
| TOTALS:          |         | 100.000 | 100.000 | 17.342 |

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) | 1.011 | 0.827 | 0.464 | 0.119 | 0.170      | 0.066      |

| CALCULATED PROPERTIES | BTU/CF | Specific Gr. | Z Factor | Mol Weight | Wobbe IDX |
|-----------------------|--------|--------------|----------|------------|-----------|
| DRY                   | 138.33 | 1.482        | 0.994    | 42.691     | 113.63    |
| WATER SATURATED       | 136.86 | 1.468        | 0.994    | 41.945     |           |

## Onsite Testing by Stain Tube

| METHOD  | TYPE | MOL%   | GRAINS/100 | PPMV    |
|---------|------|--------|------------|---------|
| GPA2377 | H2S  | 0.5570 | 353.71     | 5,624.0 |

Pantechs Laboratories, Inc. - Order: 337-3026 - Order Date: 3/21/2022

## Order Description: South Hobbs RCF, Monthly Collection

| SAMPLE ID    |                         | COLLECTION DATA  |             |
|--------------|-------------------------|------------------|-------------|
| Operator     | Occidental Permian Ltd. | Pressure         | 255 psig    |
| Location     | South Hobbs RCF         | Sample Temp      | N/A         |
| Site         | DEX PRO                 | Atm Temp         | 67 F        |
| Site Type    | Station                 | Collection Date  | 03/21/2022  |
| Sample Point | Gasoline                | Collection Time  | 11:32 AM    |
| Spot/Comp    | Spot                    | Collection By    | Cody Carson |
| Meter ID     |                         | Pressure Base    | 14.650 psi  |
| Purchaser    |                         | Temperature Base | 60 F        |
| Fluid        | Liquid                  | Container(s)     | PL1086      |

## GPA 2177 Liquid Fractional Analysis

| COMPOUND         | FORMULA | MOL%    | VOL%    | WT%     |
|------------------|---------|---------|---------|---------|
| NITROGEN         | N2      | 0.008   | 0.003   | 0.004   |
| CARBON DIOXIDE   | CO2     | 22.969  | 12.651  | 16.069  |
| HYDROGEN SULFIDE | H2S     | 0.237   | 0.103   | 0.128   |
| METHANE          | C1      | 0.131   | 0.072   | 0.033   |
| ETHANE           | C2      | 0.749   | 0.647   | 0.358   |
| PROPANE          | C3      | 8.804   | 7.840   | 6.171   |
| I-BUTANE         | iC4     | 6.468   | 6.838   | 5.976   |
| N-BUTANE         | nC4     | 19.332  | 19.697  | 17.863  |
| I-PENTANE        | iC5     | 12.123  | 14.341  | 13.904  |
| N-PENTANE        | nC5     | 9.834   | 11.510  | 11.279  |
| HEXANES PLUS     | C6+     | 19.345  | 26.298  | 28.215  |
| 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 |
|-----------------|----------------|------------|--------------------------|---------------------------|-------------------------|
| 32.496          | 31.324         | 62.908     | 0.644                    | 324.7                     | 310.6                   |

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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
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DEFINITIONS  
  
Action 105284

DEFINITIONS

|                                                                               |                                                               |
|-------------------------------------------------------------------------------|---------------------------------------------------------------|
| Operator:<br>OCCIDENTAL PERMIAN LTD<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>157984                                              |
|                                                                               | Action Number:<br>105284                                      |
|                                                                               | 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: <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> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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QUESTIONS

Action 105284

**QUESTIONS**

|                                                                               |                                                               |
|-------------------------------------------------------------------------------|---------------------------------------------------------------|
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**QUESTIONS****Prerequisites**

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 Operator | [157984] OCCIDENTAL PERMIAN LTD       |
| Incident Type     | Flare                                 |
| Incident Status   | Closure Approved                      |
| Incident Well     | Not answered.                         |
| 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.

**Determination of Reporting Requirements**

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, minor 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 <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 withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence                                                                                                             | No  |

**Equipment Involved**

|                                                           |                                           |
|-----------------------------------------------------------|-------------------------------------------|
| Primary Equipment Involved                                | Other (Specify)                           |
| Additional details for Equipment Involved. Please specify | Emergency Flare>Compressor>Oil Pump>Alarm |

**Representative Compositional Analysis of Vented or Flared Natural Gas**

Please provide the mole percent for the percentage questions in this group.

|                                                              |       |
|--------------------------------------------------------------|-------|
| Methane (CH4) percentage                                     | 4     |
| Nitrogen (N2) percentage, if greater than one percent        | 2     |
| Hydrogen Sulfide (H2S) PPM, rounded up                       | 5,010 |
| Carbon Dioxide (CO2) percentage, if greater than one percent | 89    |
| 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 105284

QUESTIONS (continued)

|                                                                               |                                                               |
|-------------------------------------------------------------------------------|---------------------------------------------------------------|
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|                                                                               | Action Number:<br>105284                                      |
|                                                                               | 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 | 01/07/2022 |
| Time vent or flare was discovered or commenced | 05:13 AM   |
| Time vent or flare was terminated              | 05:33 AM   |
| Cumulative hours during this event             | 0          |

| 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: 300 Mcf   Recovered: 0 Mcf   Lost: 300 Mcf ] |
| Other Released Details                                                    | Not answered.                                                                                                |
| Additional details for Measured or Estimated Volume(s). Please specify    | Not answered.                                                                                                |
| Is this a gas only submission (i.e. only significant Mcf values reported) | Yes, according to supplied volumes this appears to be a "gas only" report.                                   |

| Venting or Flaring Resulting from Downstream Activity             |               |
|-------------------------------------------------------------------|---------------|
| Was this vent or flare a result of downstream activity            | No            |
| Was notification of downstream activity received by this operator | No            |
| Downstream OGRID that should have notified this operator          | 0             |
| Date notified of downstream activity requiring this vent or flare | 01/01/1900    |
| Time notified of downstream activity requiring this vent or flare | Not answered. |

| Steps and Actions to Prevent Waste                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control | True                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Please explain reason for why this event was beyond this operator's control                                                     | The emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable breakdown of equipment or process that was beyond the owner/operator's control, and did not stem from activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. It is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The flare is regularly monitored to the ensure flame is lit and meeting opacity requirements. |
| Steps taken to limit the duration and magnitude of vent or flare                                                                | The emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable breakdown of equipment or process that was beyond the owner/operator's control, and did not stem from activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. It is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The flare is regularly monitored to the ensure flame is lit and meeting opacity requirements. |
| Corrective actions taken to eliminate the cause and reoccurrence of vent or flare                                               | The emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable breakdown of equipment or process that was beyond the owner/operator's control, and did not stem from activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. It is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The flare is regularly monitored to the ensure flame is lit and meeting opacity requirements. |

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ACKNOWLEDGMENTS

Action 105284

**ACKNOWLEDGMENTS**

|                                                                               |                                                               |
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|                                                                               | Action Type:<br>[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 105284

**CONDITIONS**

|                                                                               |                                                               |
|-------------------------------------------------------------------------------|---------------------------------------------------------------|
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|                                                                               | Action Number:<br>105284                                      |
|                                                                               | Action Type:<br>[C-129] Amend Venting and/or Flaring (C-129A) |

**CONDITIONS**

| Created By | Condition                                                                                                                                                                                  | Condition Date |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| ralvarado  | 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. | 5/9/2022       |