

**ARMSTRONG GAS LABS, INC.**

P.O. Box 988  
 Monahans, Texas 79756  
 (432) 943-8844 (FAX) 943-8855

**GAS ANALYSIS REPORT**

Analysis No.: 540421  
 Customer: Centennial

| <u>Component</u> | <u>Mol. %</u> | <u>(Ideal)</u><br><u>BTU</u> | <u>(Ideal)</u><br><u>SG</u> | <u>(Real)</u><br><u>GPM</u> |  |
|------------------|---------------|------------------------------|-----------------------------|-----------------------------|--|
| Nitrogen         | 3.7370        | 0.000                        | 0.036                       |                             |  |
| Methane          | 70.4550       | 709.368                      | 0.390                       |                             |  |
| CO2              | 7.6116        | 0.000                        | 0.116                       |                             |  |
| Ethane           | 9.3379        | 164.736                      | 0.097                       | 2.492                       |  |
| H2S              | 0.0900        | 0.000                        | 0.001                       |                             |  |
| Propane          | 4.9602        | 124.413                      | 0.076                       | 1.364                       |  |
| Iso-Butane       | 0.6180        | 20.034                       | 0.012                       | 0.202                       |  |
| Butane           | 1.6266        | 52.898                       | 0.033                       | 0.512                       |  |
| Iso-Pentane      | 0.4303        | 17.162                       | 0.011                       | 0.157                       |  |
| Pentane          | 0.4527        | 18.091                       | 0.011                       | 0.164                       |  |
| Hexanes C6+      | 0.6807        | 34.805                       | 0.022                       | 0.297                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1141.507                     | 0.805                       | 5.188                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** CHIMICHANGAS 12 STATE 302H  
**Sta. No.:** N/L  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002552449

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/18/24  
 Date to Lab: 11/19/24  
 Date Analyzed: 11/25/24  
 Effective Date:

Sample Press. (PSIG): 182  
 Line Press. (PSIG): 182  
 Sample Temp. (F): 110  
 Fl. Gas Temp. (F): 110  
 Amb. Temp. (F): 51

Del. To:  
 Sampled By: JT  
 Cylinder No.: 851

**Field H2O (#/mm):**

Field H2S (PPM): 900.0  
 Field H2S (Grains): 56.64

**Pressure Base: 14.65**  
**Temp. Base: 60**

Z Factor (Dry): 0.9962802  
 Z Factor (Act.): 0.9962802

Dry BTU w/ H2S: 1146.34

Sat BTU w/ H2S: 1126.72

As Del. BTU w/ H2S: 1146.34

**Dry BTU W/O H2S (Real): 1145.77**

**Sat. BTU W/O H2S (Real): 1126.16**

**H2O (# / mmcf): 0.0**

**AS DEL. BTU W/O H2S (Real): 1145.77**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.8072**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 5.188**

**GPM Propane+ (Real): 2.696**

**GPM IC5+ (Real): 0.618**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**

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**GAS ANALYSIS REPORT**

Analysis No.: 540395  
 Customer: Centennial

| <u>Component</u> | <u>Mol. %</u> | <u>(Ideal)</u><br><u>BTU</u> | <u>(Ideal)</u><br><u>SG</u> | <u>(Real)</u><br><u>GPM</u> |  |
|------------------|---------------|------------------------------|-----------------------------|-----------------------------|--|
| Nitrogen         | 1.6821        | 0.000                        | 0.016                       |                             |  |
| Methane          | 76.0110       | 765.308                      | 0.421                       |                             |  |
| CO2              | 4.8445        | 0.000                        | 0.074                       |                             |  |
| Ethane           | 8.7645        | 154.620                      | 0.091                       | 2.339                       |  |
| H2S              | 0.0800        | 0.000                        | 0.001                       |                             |  |
| Propane          | 4.6157        | 115.772                      | 0.070                       | 1.269                       |  |
| Iso-Butane       | 0.7017        | 22.747                       | 0.014                       | 0.229                       |  |
| Butane           | 1.6038        | 52.157                       | 0.032                       | 0.505                       |  |
| Iso-Pentane      | 0.4768        | 19.017                       | 0.012                       | 0.174                       |  |
| Pentane          | 0.4276        | 17.088                       | 0.011                       | 0.155                       |  |
| Hexanes C6+      | 0.7923        | 40.512                       | 0.025                       | 0.345                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1187.220                     | 0.767                       | 5.016                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Butters Stotch 8 State Com 124H  
**Sta. No.:** N/L  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002552485

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/18/24  
 Date to Lab: 11/18/24  
 Date Analyzed: 11/22/24  
 Effective Date:

Sample Press. (PSIG): 163  
 Line Press. (PSIG): 163  
 Sample Temp. (F): 103  
 Fl. Gas Temp. (F): 103  
 Amb. Temp. (F): 42

Del. To:  
 Sampled By: JL  
 Cylinder No.: 664

**Field H2O (#/mm):**

Field H2S (PPM): 800.0  
 Field H2S (Grains): 50.35

**Pressure Base: 14.65****Temp. Base: 60**

Z Factor (Dry): 0.9963314

Z Factor (Act.): 0.9963314

Dry BTU w/ H2S: 1192.10

Sat BTU w/ H2S: 1171.70

As Del. BTU w/ H2S: 1192.10

**Dry BTU W/O H2S (Real): 1191.59****Sat. BTU W/O H2S (Real): 1171.19****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1191.59***BTU Calc: Dry***Sp. Gravity (Real): 0.7699**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 5.016****GPM Propane+ (Real): 2.677****GPM IC5+ (Real): 0.674**

GPA 2145 / 2172

**Fld. Remarks:****Lab Remarks:**

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**GAS ANALYSIS REPORT**

Analysis No.: 540394  
 Customer: Centennial

| <u>Component</u> | <u>Mol. %</u> | <u>(Ideal)</u><br><u>BTU</u> | <u>(Ideal)</u><br><u>SG</u> | <u>(Real)</u><br><u>GPM</u> |  |
|------------------|---------------|------------------------------|-----------------------------|-----------------------------|--|
| Nitrogen         | 1.9629        | 0.000                        | 0.019                       |                             |  |
| Methane          | 76.4020       | 769.245                      | 0.423                       |                             |  |
| CO2              | 3.9250        | 0.000                        | 0.060                       |                             |  |
| Ethane           | 9.6603        | 170.423                      | 0.100                       | 2.578                       |  |
| H2S              | 0.0001        | 0.000                        | 0.000                       |                             |  |
| Propane          | 4.8659        | 122.048                      | 0.074                       | 1.338                       |  |
| Iso-Butane       | 0.6155        | 19.953                       | 0.012                       | 0.201                       |  |
| Butane           | 1.3824        | 44.957                       | 0.028                       | 0.435                       |  |
| Iso-Pentane      | 0.3277        | 13.070                       | 0.008                       | 0.120                       |  |
| Pentane          | 0.2809        | 11.225                       | 0.007                       | 0.102                       |  |
| Hexanes C6+      | 0.5773        | 29.518                       | 0.019                       | 0.251                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1180.439                     | 0.750                       | 5.025                       |  |

**Producer:**  
**Well / Sta. Name:** CASA BONITA/BUTTER SCOTCH CONTACT #2  
**Sta. No.:** T20598285  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** N/L  
**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/18/24  
 Date to Lab: 11/18/24  
 Date Analyzed: 11/22/24  
 Effective Date:  
 Sample Press. (PSIG): 148  
 Line Press. (PSIG): 148  
 Sample Temp. (F): 58  
 Fl. Gas Temp. (F): 58  
 Amb. Temp. (F): 42  
 Del. To:  
 Sampled By: JL  
 Cylinder No.: 73

**Field H2O (#/mm):****Field H2S (PPM):** 0.5

Field H2S (Grains): 0.03

**Pressure Base:** 14.65**Temp. Base:** 60

Z Factor (Dry): 0.9964888

Z Factor (Act.): 0.9964888

Dry BTU w/ H2S: 1184.60

Sat BTU w/ H2S: 1164.32

As Del. BTU w/ H2S: 1184.60

**Dry BTU W/O H2S (Real):** 1184.60**Sat. BTU W/O H2S (Real):** 1164.32**H2O (# / mmcf):** 0.0**AS DEL. BTU W/O H2S (Real):** 1184.60*BTU Calc: Dry***Sp. Gravity (Real):** 0.7524

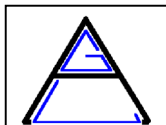
Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real):** 5.025**GPM Propane+ (Real):** 2.447**GPM IC5+ (Real):** 0.473

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**Fld. Remarks:** TAG: NO API PER WHITNEY**Lab Remarks:** CP @ LAB 124 PSIG

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**GAS ANALYSIS REPORT**

Analysis No.: 344160  
 Customer: Centennial

| <u>Component</u> | <u>Mol. %</u> | <u>(Ideal)</u><br><u>BTU</u> | <u>(Ideal)</u><br><u>SG</u> | <u>(Real)</u><br><u>GPM</u> |  |
|------------------|---------------|------------------------------|-----------------------------|-----------------------------|--|
| Nitrogen         | 3.8993        | 0.000                        | 0.038                       |                             |  |
| Methane          | 71.0290       | 715.147                      | 0.393                       |                             |  |
| CO2              | 9.2805        | 0.000                        | 0.141                       |                             |  |
| Ethane           | 8.6061        | 151.825                      | 0.089                       | 2.296                       |  |
| H2S              | 0.1800        | 0.000                        | 0.002                       |                             |  |
| Propane          | 4.0604        | 101.844                      | 0.062                       | 1.116                       |  |
| Iso-Butane       | 0.4673        | 15.149                       | 0.009                       | 0.153                       |  |
| Butane           | 1.2437        | 40.446                       | 0.025                       | 0.391                       |  |
| Iso-Pentane      | 0.3362        | 13.409                       | 0.008                       | 0.123                       |  |
| Pentane          | 0.3502        | 13.995                       | 0.009                       | 0.127                       |  |
| Hexanes C6+      | 0.5473        | 27.984                       | 0.018                       | 0.238                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1079.799                     | 0.794                       | 4.444                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** MARGARITA 12 STATE COM 301H  
**Sta. No.:** N/L  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002551988

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/18/24  
 Date to Lab: 11/19/24  
 Date Analyzed: 11/22/24  
 Effective Date:

Sample Press. (PSIG): 180  
 Line Press. (PSIG): 180  
 Sample Temp. (F): 89  
 Fl. Gas Temp. (F): 89  
 Amb. Temp. (F): 74

Del. To:  
 Sampled By: JT  
 Cylinder No.: 859

**Field H2O (#/mm):**

Field H2S (PPM): 1,800.0  
 Field H2S (Grains): 113.28

**Pressure Base: 14.65****Temp. Base: 60**

Z Factor (Dry): 0.9965297

Z Factor (Act.): 0.9965297

Dry BTU w/ H2S: 1084.71

Sat BTU w/ H2S: 1066.13

As Del. BTU w/ H2S: 1084.71

**Dry BTU W/O H2S (Real): 1083.56****Sat. BTU W/O H2S (Real): 1065.00****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1083.56***BTU Calc: Dry***Sp. Gravity (Real): 0.7969**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 4.444****GPM Propane+ (Real): 2.148****GPM IC5+ (Real): 0.488**

GPA 2145 / 2172

**Fld. Remarks:****Lab Remarks:**

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**GAS ANALYSIS REPORT**

Analysis No.: 344159  
 Customer: Centennial

| <u>Component</u> | <u>Mol. %</u> | <u>(Ideal)</u><br><u>BTU</u> | <u>(Ideal)</u><br><u>SG</u> | <u>(Real)</u><br><u>GPM</u> |  |
|------------------|---------------|------------------------------|-----------------------------|-----------------------------|--|
| Nitrogen         | 3.6948        | 0.000                        | 0.036                       |                             |  |
| Methane          | 70.3348       | 708.158                      | 0.390                       |                             |  |
| CO2              | 9.0479        | 0.000                        | 0.137                       |                             |  |
| Ethane           | 9.0579        | 159.796                      | 0.094                       | 2.417                       |  |
| H2S              | 0.2000        | 0.000                        | 0.002                       |                             |  |
| Propane          | 4.4019        | 110.410                      | 0.067                       | 1.210                       |  |
| Iso-Butane       | 0.5131        | 16.633                       | 0.010                       | 0.168                       |  |
| Butane           | 1.3653        | 44.401                       | 0.027                       | 0.430                       |  |
| Iso-Pentane      | 0.3731        | 14.881                       | 0.009                       | 0.136                       |  |
| Pentane          | 0.3891        | 15.549                       | 0.010                       | 0.141                       |  |
| Hexanes C6+      | 0.6221        | 31.809                       | 0.020                       | 0.271                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1101.636                     | 0.803                       | 4.773                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** MARGARITA 12 STATE COM 302H  
**Sta. No.:** N/L  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002551989

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/18/24  
 Date to Lab: 11/18/24  
 Date Analyzed: 11/22/24  
 Effective Date:

Sample Press. (PSIG): 178  
 Line Press. (PSIG): 178  
 Sample Temp. (F): 94  
 Fl. Gas Temp. (F): 94  
 Amb. Temp. (F): 46

Del. To:  
 Sampled By: IF  
 Cylinder No.: 715

**Field H2O (#/mm):**

Field H2S (PPM): 2,000.0  
 Field H2S (Grains): 125.87

**Pressure Base: 14.65****Temp. Base: 60**

Z Factor (Dry): 0.9964010

Z Factor (Act.): 0.9964010

Dry BTU w/ H2S: 1106.89

Sat BTU w/ H2S: 1087.94

As Del. BTU w/ H2S: 1106.89

**Dry BTU W/O H2S (Real): 1105.62****Sat. BTU W/O H2S (Real): 1086.69****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1105.62***BTU Calc: Dry***Sp. Gravity (Real): 0.8055**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 4.773****GPM Propane+ (Real): 2.356****GPM IC5+ (Real): 0.548**

GPA 2145 / 2172

**Fld. Remarks:****Lab Remarks:**

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**GAS ANALYSIS REPORT**

Analysis No.: 344158  
 Customer: Centennial

| <u>Component</u> | <u>Mol. %</u> | <u>(Ideal)</u><br><u>BTU</u> | <u>(Ideal)</u><br><u>SG</u> | <u>(Real)</u><br><u>GPM</u> |  |
|------------------|---------------|------------------------------|-----------------------------|-----------------------------|--|
| Nitrogen         | 1.9828        | 0.000                        | 0.019                       |                             |  |
| Methane          | 80.3075       | 808.567                      | 0.445                       |                             |  |
| CO2              | 3.0542        | 0.000                        | 0.046                       |                             |  |
| Ethane           | 7.9310        | 139.916                      | 0.082                       | 2.116                       |  |
| H2S              | 0.0100        | 0.000                        | 0.000                       |                             |  |
| Propane          | 3.9315        | 98.611                       | 0.060                       | 1.080                       |  |
| Iso-Butane       | 0.5392        | 17.479                       | 0.011                       | 0.176                       |  |
| Butane           | 1.1444        | 37.217                       | 0.023                       | 0.360                       |  |
| Iso-Pentane      | 0.3151        | 12.567                       | 0.008                       | 0.115                       |  |
| Pentane          | 0.2671        | 10.674                       | 0.007                       | 0.097                       |  |
| Hexanes C6+      | 0.5172        | 26.445                       | 0.017                       | 0.225                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1151.476                     | 0.718                       | 4.169                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Duck Hunt 1 State Com 501H  
**Sta. No.:** 3758  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002545265

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/20/24  
 Date to Lab: 11/21/24  
 Date Analyzed: 11/22/24  
 Effective Date:

Sample Press. (PSIG): 150  
 Line Press. (PSIG): 150  
 Sample Temp. (F): 70  
 Fl. Gas Temp. (F): 70  
 Amb. Temp. (F): 61

Del. To:  
 Sampled By: RO  
 Cylinder No.: AGL-183

**Field H2O (#/mm):**

Field H2S (PPM): 100.0  
 Field H2S (Grains): 6.29

**Pressure Base: 14.65****Temp. Base: 60**

Z Factor (Dry): 0.9967828

Z Factor (Act.): 0.9967828

Dry BTU w/ H2S: 1155.26

Sat BTU w/ H2S: 1135.46

As Del. BTU w/ H2S: 1155.26

**Dry BTU W/O H2S (Real): 1155.19****Sat. BTU W/O H2S (Real): 1135.40****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1155.19***BTU Calc: Dry***Sp. Gravity (Real): 0.7197**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 4.169****GPM Propane+ (Real): 2.053****GPM IC5+ (Real): 0.437**

GPA 2145 / 2172

**Fld. Remarks:****Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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**GAS ANALYSIS REPORT**

Analysis No.: 344157  
 Customer: Centennial

| <u>Component</u> | <u>Mol. %</u> | <u>(Ideal)</u><br><u>BTU</u> | <u>(Ideal)</u><br><u>SG</u> | <u>(Real)</u><br><u>GPM</u> |  |
|------------------|---------------|------------------------------|-----------------------------|-----------------------------|--|
| Nitrogen         | 2.4944        | 0.000                        | 0.024                       |                             |  |
| Methane          | 77.0994       | 776.267                      | 0.427                       |                             |  |
| CO2              | 4.9667        | 0.000                        | 0.075                       |                             |  |
| Ethane           | 8.3009        | 146.441                      | 0.086                       | 2.215                       |  |
| H2S              | 0.0300        | 0.000                        | 0.000                       |                             |  |
| Propane          | 4.1179        | 103.286                      | 0.063                       | 1.132                       |  |
| Iso-Butane       | 0.5475        | 17.748                       | 0.011                       | 0.179                       |  |
| Butane           | 1.3112        | 42.641                       | 0.026                       | 0.412                       |  |
| Iso-Pentane      | 0.3393        | 13.533                       | 0.008                       | 0.124                       |  |
| Pentane          | 0.3233        | 12.920                       | 0.008                       | 0.117                       |  |
| Hexanes C6+      | 0.4694        | 24.001                       | 0.015                       | 0.204                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1136.837                     | 0.745                       | 4.383                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Duck Hunt 1 State Com 302H  
**Sta. No.:** 09609  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002546344

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/19/24  
 Date to Lab: 11/19/24  
 Date Analyzed: 11/22/24  
 Effective Date:

Sample Press. (PSIG): 148  
 Line Press. (PSIG): 148  
 Sample Temp. (F): 75  
 Fl. Gas Temp. (F): 75  
 Amb. Temp. (F): 73

Del. To:  
 Sampled By: RO  
 Cylinder No.: AGL-175

**Field H2O (#/mm):**

Field H2S (PPM): 300.0  
 Field H2S (Grains): 18.88

**Pressure Base: 14.65**  
**Temp. Base: 60**

Z Factor (Dry): 0.9966647  
 Z Factor (Act.): 0.9966647

Dry BTU w/ H2S: 1140.83  
 Sat BTU w/ H2S: 1121.29  
 As Del. BTU w/ H2S: 1140.83

**Dry BTU W/O H2S (Real): 1140.64**

**Sat. BTU W/O H2S (Real): 1121.10**

**H2O (# / mmcf): 0.0**

**AS DEL. BTU W/O H2S (Real): 1140.64**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7470**

Field Gravity:  
 Lab Gravitometer:

**GPM Ethane+ (Real): 4.383**  
**GPM Propane+ (Real): 2.168**  
**GPM IC5+ (Real): 0.445**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks: CP @ LAB 127 PSIG**

**ARMSTRONG GAS LABS, INC.**

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**GAS ANALYSIS REPORT**

Analysis No.: 344156  
 Customer: Centennial

| <u>Component</u> | <u>Mol. %</u> | <u>(Ideal)</u><br><u>BTU</u> | <u>(Ideal)</u><br><u>SG</u> | <u>(Real)</u><br><u>GPM</u> |  |
|------------------|---------------|------------------------------|-----------------------------|-----------------------------|--|
| Nitrogen         | 2.3193        | 0.000                        | 0.022                       |                             |  |
| Methane          | 79.4947       | 800.383                      | 0.440                       |                             |  |
| CO2              | 2.2482        | 0.000                        | 0.034                       |                             |  |
| Ethane           | 8.8710        | 156.499                      | 0.092                       | 2.367                       |  |
| H2S              | 0.0100        | 0.000                        | 0.000                       |                             |  |
| Propane          | 4.1395        | 103.828                      | 0.063                       | 1.138                       |  |
| Iso-Butane       | 0.5191        | 16.828                       | 0.010                       | 0.169                       |  |
| Butane           | 1.2741        | 41.435                       | 0.026                       | 0.401                       |  |
| Iso-Pentane      | 0.3320        | 13.241                       | 0.008                       | 0.121                       |  |
| Pentane          | 0.3210        | 12.828                       | 0.008                       | 0.116                       |  |
| Hexanes C6+      | 0.4711        | 24.088                       | 0.015                       | 0.205                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1169.130                     | 0.720                       | 4.517                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Chimichangas 12 State 502H  
**Sta. No.:** 50909  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002549581

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/18/24  
 Date to Lab: 11/19/24  
 Date Analyzed: 11/22/24  
 Effective Date:

Sample Press. (PSIG): 146  
 Line Press. (PSIG): 146  
 Sample Temp. (F): 80  
 Fl. Gas Temp. (F): 80  
 Amb. Temp. (F): 49

Del. To:  
 Sampled By: EL  
 Cylinder No.: 184

**Field H2O (#/mm):**

Field H2S (PPM): 100.0  
 Field H2S (Grains): 6.29

**Pressure Base: 14.65****Temp. Base: 60**

Z Factor (Dry): 0.9967332

Z Factor (Act.): 0.9967332

Dry BTU w/ H2S: 1173.03

Sat BTU w/ H2S: 1152.93

As Del. BTU w/ H2S: 1173.03

**Dry BTU W/O H2S (Real): 1172.96****Sat. BTU W/O H2S (Real): 1152.87****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1172.96***BTU Calc: Dry***Sp. Gravity (Real): 0.7216**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 4.517****GPM Propane+ (Real): 2.150****GPM IC5+ (Real): 0.442**

GPA 2145 / 2172

**Fld. Remarks:****Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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**GAS ANALYSIS REPORT**

Analysis No.: 344155  
 Customer: Centennial

| <u>Component</u> | <u>Mol. %</u> | <u>(Ideal)</u><br><u>BTU</u> | <u>(Ideal)</u><br><u>SG</u> | <u>(Real)</u><br><u>GPM</u> |  |
|------------------|---------------|------------------------------|-----------------------------|-----------------------------|--|
| Nitrogen         | 0.2100        | 0.000                        | 0.002                       |                             |  |
| Methane          | 24.9408       | 251.114                      | 0.138                       |                             |  |
| CO2              | 3.0671        | 0.000                        | 0.047                       |                             |  |
| Ethane           | 17.3870       | 306.735                      | 0.181                       | 4.686                       |  |
| H2S              | 0.0700        | 0.000                        | 0.001                       |                             |  |
| Propane          | 28.1351       | 705.691                      | 0.428                       | 7.812                       |  |
| Iso-Butane       | 6.3126        | 204.637                      | 0.127                       | 2.082                       |  |
| Butane           | 14.9253       | 485.384                      | 0.300                       | 4.742                       |  |
| Iso-Pentane      | 2.6935        | 107.427                      | 0.067                       | 0.993                       |  |
| Pentane          | 1.7726        | 70.836                       | 0.044                       | 0.648                       |  |
| Hexanes C6+      | 0.4860        | 24.850                       | 0.016                       | 0.214                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 2156.673                     | 1.350                       | 21.177                      |  |

**Producer:**  
**Well / Sta. Name:** WINEBAGO 501/501 VRU  
**Sta. No.:** 9357  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** N/L

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/20/24  
 Date to Lab: 11/20/24  
 Date Analyzed: 11/22/24  
 Effective Date:

Sample Press. (PSIG): 146  
 Line Press. (PSIG): 146  
 Sample Temp. (F): 96  
 Fl. Gas Temp. (F): 96  
 Amb. Temp. (F): 40

Del. To:  
 Sampled By: JT  
 Cylinder No.: 842

**Field H2O (#/mm):**

Field H2S (PPM): 700.0  
 Field H2S (Grains): 44.05

**Pressure Base: 14.65**  
**Temp. Base: 60**

Z Factor (Dry): 0.9865833  
 Z Factor (Act.): 0.9865832

Dry BTU w/ H2S: 2186.45

Sat BTU w/ H2S: 2149.28

As Del. BTU w/ H2S: 2186.45

**Dry BTU W/O H2S (Real): 2186.00**

**Sat. BTU W/O H2S (Real): 2148.84**

**H2O (# / mmcf): 0.0**

**AS DEL. BTU W/O H2S (Real): 2186.00**

*BTU Calc: Dry*

**Sp. Gravity (Real): 1.3674**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 21.177**

**GPM Propane+ (Real): 16.491**

**GPM IC5+ (Real): 1.855**

GPA 2145 / 2172

**Fld. Remarks: TAG: NO API PER WHITNEY**

**Lab Remarks: CP @ LAB 101 PSIG**

**ARMSTRONG GAS LABS, INC.**

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**GAS ANALYSIS REPORT**

Analysis No.: 344154  
 Customer: Centennial

| <u>Component</u> | <u>Mol. %</u> | <u>(Ideal)</u><br><u>BTU</u> | <u>(Ideal)</u><br><u>SG</u> | <u>(Real)</u><br><u>GPM</u> |  |
|------------------|---------------|------------------------------|-----------------------------|-----------------------------|--|
| Nitrogen         | 1.8438        | 0.000                        | 0.018                       |                             |  |
| Methane          | 81.6200       | 821.782                      | 0.452                       |                             |  |
| CO2              | 1.8168        | 0.000                        | 0.028                       |                             |  |
| Ethane           | 8.8850        | 156.746                      | 0.092                       | 2.370                       |  |
| H2S              | 0.0200        | 0.000                        | 0.000                       |                             |  |
| Propane          | 3.6286        | 91.013                       | 0.055                       | 0.997                       |  |
| Iso-Butane       | 0.4619        | 14.974                       | 0.009                       | 0.151                       |  |
| Butane           | 0.9989        | 32.485                       | 0.020                       | 0.314                       |  |
| Iso-Pentane      | 0.2570        | 10.250                       | 0.006                       | 0.094                       |  |
| Pentane          | 0.2170        | 8.672                        | 0.005                       | 0.078                       |  |
| Hexanes C6+      | 0.2510        | 12.834                       | 0.008                       | 0.109                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1148.755                     | 0.694                       | 4.113                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Winnebago 30 State Com 602H  
**Sta. No.:** 69871  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002550273

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/20/24  
 Date to Lab: 11/20/24  
 Date Analyzed: 11/22/24  
 Effective Date:

Sample Press. (PSIG): 144  
 Line Press. (PSIG): 144  
 Sample Temp. (F): 34  
 Fl. Gas Temp. (F): 34  
 Amb. Temp. (F): 31

Del. To:  
 Sampled By: JL  
 Cylinder No.: 845

**Field H2O (#/mm):**

Field H2S (PPM): 200.0  
 Field H2S (Grains): 12.59

**Pressure Base: 14.65**  
**Temp. Base: 60**

Z Factor (Dry): 0.9969403  
 Z Factor (Act.): 0.9969403

Dry BTU w/ H2S: 1152.41

Sat BTU w/ H2S: 1132.66

As Del. BTU w/ H2S: 1152.41

**Dry BTU W/O H2S (Real): 1152.28**

**Sat. BTU W/O H2S (Real): 1132.53**

**H2O (# / mmcf): 0.0**

**AS DEL. BTU W/O H2S (Real): 1152.28**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.6963**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 4.113**

**GPM Propane+ (Real): 1.743**

**GPM IC5+ (Real): 0.281**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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**GAS ANALYSIS REPORT**

Analysis No.: 344153  
 Customer: Centennial

| <u>Component</u> | <u>Mol. %</u> | <u>(Ideal)</u><br><u>BTU</u> | <u>(Ideal)</u><br><u>SG</u> | <u>(Real)</u><br><u>GPM</u> |  |
|------------------|---------------|------------------------------|-----------------------------|-----------------------------|--|
| Nitrogen         | 2.2847        | 0.000                        | 0.022                       |                             |  |
| Methane          | 77.9676       | 785.008                      | 0.432                       |                             |  |
| CO2              | 1.3920        | 0.000                        | 0.021                       |                             |  |
| Ethane           | 10.2647       | 181.086                      | 0.107                       | 2.739                       |  |
| H2S              | 0.0010        | 0.000                        | 0.000                       |                             |  |
| Propane          | 4.9807        | 124.927                      | 0.076                       | 1.369                       |  |
| Iso-Butane       | 0.5955        | 19.304                       | 0.012                       | 0.194                       |  |
| Butane           | 1.4711        | 47.841                       | 0.030                       | 0.463                       |  |
| Iso-Pentane      | 0.3152        | 12.571                       | 0.008                       | 0.115                       |  |
| Pentane          | 0.2932        | 11.717                       | 0.007                       | 0.106                       |  |
| Hexanes C6+      | 0.4343        | 22.206                       | 0.014                       | 0.189                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1204.661                     | 0.728                       | 5.175                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Margarita 12 State Com 602H  
**Sta. No.:** 67512  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002549822

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/18/24  
 Date to Lab: 11/19/24  
 Date Analyzed: 11/22/24  
 Effective Date:

Sample Press. (PSIG): 139  
 Line Press. (PSIG): 139  
 Sample Temp. (F): 73  
 Fl. Gas Temp. (F): 73  
 Amb. Temp. (F): 49

Del. To:  
 Sampled By: EL  
 Cylinder No.: 116

**Field H2O (#/mm):**

Field H2S (PPM): 10.0  
 Field H2S (Grains): 0.63

**Pressure Base: 14.65**  
**Temp. Base: 60**

Z Factor (Dry): 0.9965810  
 Z Factor (Act.): 0.9965810

Dry BTU w/ H2S: 1208.80  
 Sat BTU w/ H2S: 1188.10  
 As Del. BTU w/ H2S: 1208.80

**Dry BTU W/O H2S (Real): 1208.80**

**Sat. BTU W/O H2S (Real): 1188.10**

**H2O (# / mmcf): 0.0**

**AS DEL. BTU W/O H2S (Real): 1208.79**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7303**

Field Gravity:  
 Lab Gravitometer:

**GPM Ethane+ (Real): 5.175**  
**GPM Propane+ (Real): 2.436**  
**GPM IC5+ (Real): 0.410**

**Fld. Remarks:**

**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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**GAS ANALYSIS REPORT**

Analysis No.: 344152  
 Customer: Centennial

| <u>Component</u> | <u>Mol. %</u> | <u>(Ideal)</u><br><u>BTU</u> | <u>(Ideal)</u><br><u>SG</u> | <u>(Real)</u><br><u>GPM</u> |  |
|------------------|---------------|------------------------------|-----------------------------|-----------------------------|--|
| Nitrogen         | 2.3671        | 0.000                        | 0.023                       |                             |  |
| Methane          | 77.7331       | 782.647                      | 0.431                       |                             |  |
| CO2              | 1.0779        | 0.000                        | 0.016                       |                             |  |
| Ethane           | 10.5615       | 186.322                      | 0.110                       | 2.818                       |  |
| H2S              | 0.0100        | 0.000                        | 0.000                       |                             |  |
| Propane          | 5.1109        | 128.193                      | 0.078                       | 1.405                       |  |
| Iso-Butane       | 0.6051        | 19.616                       | 0.012                       | 0.198                       |  |
| Butane           | 1.4766        | 48.020                       | 0.030                       | 0.464                       |  |
| Iso-Pentane      | 0.3095        | 12.344                       | 0.008                       | 0.113                       |  |
| Pentane          | 0.2985        | 11.929                       | 0.007                       | 0.108                       |  |
| Hexanes C6+      | 0.4498        | 22.999                       | 0.014                       | 0.196                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1212.069                     | 0.729                       | 5.302                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Margarita 12 State Com 601H  
**Sta. No.:** 67510  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002549821

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/18/24  
 Date to Lab: 11/19/24  
 Date Analyzed: 11/22/24  
 Effective Date:

Sample Press. (PSIG): 137  
 Line Press. (PSIG): 137  
 Sample Temp. (F): 72  
 Fl. Gas Temp. (F): 72  
 Amb. Temp. (F): 49

Del. To:  
 Sampled By: EL  
 Cylinder No.: 731

**Field H2O (#/mm):**

Field H2S (PPM): 100.0  
 Field H2S (Grains): 6.29

**Pressure Base: 14.65**  
**Temp. Base: 60**

Z Factor (Dry): 0.9965571  
 Z Factor (Act.): 0.9965571

Dry BTU w/ H2S: 1216.32

Sat BTU w/ H2S: 1195.49

As Del. BTU w/ H2S: 1216.32

**Dry BTU W/O H2S (Real): 1216.26**

**Sat. BTU W/O H2S (Real): 1195.43**

**H2O (# / mmcf): 0.0**

**AS DEL. BTU W/O H2S (Real): 1216.26**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7310**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 5.302**

**GPM Propane+ (Real): 2.484**

**GPM IC5+ (Real): 0.417**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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**GAS ANALYSIS REPORT**

Analysis No.: 344151  
 Customer: Centennial

| <u>Component</u> | <u>Mol. %</u> | <u>(Ideal)</u><br><u>BTU</u> | <u>(Ideal)</u><br><u>SG</u> | <u>(Real)</u><br><u>GPM</u> |  |
|------------------|---------------|------------------------------|-----------------------------|-----------------------------|--|
| Nitrogen         | 1.8119        | 0.000                        | 0.018                       |                             |  |
| Methane          | 80.7934       | 813.459                      | 0.448                       |                             |  |
| CO2              | 0.8139        | 0.000                        | 0.012                       |                             |  |
| Ethane           | 9.5372        | 168.252                      | 0.099                       | 2.544                       |  |
| H2S              | 0.0040        | 0.000                        | 0.000                       |                             |  |
| Propane          | 4.4678        | 112.062                      | 0.068                       | 1.228                       |  |
| Iso-Butane       | 0.5656        | 18.335                       | 0.011                       | 0.185                       |  |
| Butane           | 1.1773        | 38.287                       | 0.024                       | 0.370                       |  |
| Iso-Pentane      | 0.2943        | 11.738                       | 0.007                       | 0.107                       |  |
| Pentane          | 0.2463        | 9.843                        | 0.006                       | 0.089                       |  |
| Hexanes C6+      | 0.2883        | 14.741                       | 0.009                       | 0.126                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1186.717                     | 0.702                       | 4.649                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Winnebago 30 State Com 603H  
**Sta. No.:** 69885  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002550274

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/20/24  
 Date to Lab: 11/20/24  
 Date Analyzed: 11/22/24  
 Effective Date:

Sample Press. (PSIG): 134  
 Line Press. (PSIG): 134  
 Sample Temp. (F): 37  
 Fl. Gas Temp. (F): 37  
 Amb. Temp. (F): 31

Del. To:  
 Sampled By: JL  
 Cylinder No.: 865

**Field H2O (#/mm):**

Field H2S (PPM): 40.0  
 Field H2S (Grains): 2.52

**Pressure Base: 14.65**  
**Temp. Base: 60**

Z Factor (Dry): 0.9967899  
 Z Factor (Act.): 0.9967899

Dry BTU w/ H2S: 1190.56  
 Sat BTU w/ H2S: 1170.17  
 As Del. BTU w/ H2S: 1190.56

**Dry BTU W/O H2S (Real): 1190.54**  
**Sat. BTU W/O H2S (Real): 1170.14**  
**H2O (# / mmcf): 0.0**  
**AS DEL. BTU W/O H2S (Real): 1190.54**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7042**  
 Field Gravity:  
 Lab Gravitometer:

**GPM Ethane+ (Real): 4.649**  
**GPM Propane+ (Real): 2.105**  
**GPM IC5+ (Real): 0.322**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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**GAS ANALYSIS REPORT**

Analysis No.: 344150  
 Customer: Centennial

| <u>Component</u> | <u>Mol. %</u> | <u>(Ideal)</u><br><u>BTU</u> | <u>(Ideal)</u><br><u>SG</u> | <u>(Real)</u><br><u>GPM</u> |  |
|------------------|---------------|------------------------------|-----------------------------|-----------------------------|--|
| Nitrogen         | 2.5472        | 0.000                        | 0.025                       |                             |  |
| Methane          | 74.8470       | 753.588                      | 0.415                       |                             |  |
| CO2              | 5.8662        | 0.000                        | 0.089                       |                             |  |
| Ethane           | 8.8995        | 157.001                      | 0.092                       | 2.375                       |  |
| H2S              | 0.0003        | 0.000                        | 0.000                       |                             |  |
| Propane          | 4.7505        | 119.153                      | 0.072                       | 1.306                       |  |
| Iso-Butane       | 0.6375        | 20.666                       | 0.013                       | 0.208                       |  |
| Butane           | 1.3733        | 44.661                       | 0.028                       | 0.432                       |  |
| Iso-Pentane      | 0.3498        | 13.951                       | 0.009                       | 0.128                       |  |
| Pentane          | 0.2957        | 11.817                       | 0.007                       | 0.107                       |  |
| Hexanes C6+      | 0.4330        | 22.140                       | 0.014                       | 0.189                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1142.978                     | 0.763                       | 4.745                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Sheba Federal Com 506H  
**Sta. No.:** 39899  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002549122

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/21/24  
 Date to Lab: 11/22/24  
 Date Analyzed: 11/22/24  
 Effective Date:

Sample Press. (PSIG): 121  
 Line Press. (PSIG): 121  
 Sample Temp. (F): 67  
 Fl. Gas Temp. (F): 67  
 Amb. Temp. (F): 42

Del. To:  
 Sampled By: EL  
 Cylinder No.: 415

**Field H2O (#/mm):**

Field H2S (PPM): 2.5  
 Field H2S (Grains): 0.16

**Pressure Base: 14.65**  
**Temp. Base: 60**

Z Factor (Dry): 0.9965316  
 Z Factor (Act.): 0.9965316

Dry BTU w/ H2S: 1146.96

Sat BTU w/ H2S: 1127.32

As Del. BTU w/ H2S: 1146.96

**Dry BTU W/O H2S (Real): 1146.96**

**Sat. BTU W/O H2S (Real): 1127.32**

**H2O (# / mmcf): 0.0**

**AS DEL. BTU W/O H2S (Real): 1146.96**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7658**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 4.745**

**GPM Propane+ (Real): 2.370**

**GPM IC5+ (Real): 0.424**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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**GAS ANALYSIS REPORT**

Analysis No.: 344149  
 Customer: Centennial

| <u>Component</u> | <u>Mol. %</u> | <u>(Ideal)</u><br><u>BTU</u> | <u>(Ideal)</u><br><u>SG</u> | <u>(Real)</u><br><u>GPM</u> |  |
|------------------|---------------|------------------------------|-----------------------------|-----------------------------|--|
| Nitrogen         | 3.9281        | 0.000                        | 0.038                       |                             |  |
| Methane          | 70.2277       | 707.080                      | 0.389                       |                             |  |
| CO2              | 8.1110        | 0.000                        | 0.123                       |                             |  |
| Ethane           | 9.1785        | 161.923                      | 0.095                       | 2.450                       |  |
| H2S              | 0.1000        | 0.000                        | 0.001                       |                             |  |
| Propane          | 4.8147        | 120.763                      | 0.073                       | 1.324                       |  |
| Iso-Butane       | 0.5711        | 18.513                       | 0.011                       | 0.186                       |  |
| Butane           | 1.5254        | 49.607                       | 0.031                       | 0.480                       |  |
| Iso-Pentane      | 0.4124        | 16.448                       | 0.010                       | 0.151                       |  |
| Pentane          | 0.4316        | 17.247                       | 0.011                       | 0.156                       |  |
| Hexanes C6+      | 0.6995        | 35.767                       | 0.023                       | 0.305                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1127.349                     | 0.806                       | 5.052                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** CHIMICHANGAS 12 STATE 301H  
**Sta. No.:** N/L  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002552448

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/18/24  
 Date to Lab: 11/19/24  
 Date Analyzed: 11/22/24  
 Effective Date:

Sample Press. (PSIG): 179  
 Line Press. (PSIG): 179  
 Sample Temp. (F): 74  
 Fl. Gas Temp. (F): 74  
 Amb. Temp. (F): 59

Del. To:  
 Sampled By: JT  
 Cylinder No.: 430

**Field H2O (#/mm):**

Field H2S (PPM): 1,000.0  
 Field H2S (Grains): 62.93

**Pressure Base: 14.65**  
**Temp. Base: 60**

Z Factor (Dry): 0.9963182  
 Z Factor (Act.): 0.9963182

Dry BTU w/ H2S: 1132.15

Sat BTU w/ H2S: 1112.77

As Del. BTU w/ H2S: 1132.15

**Dry BTU W/O H2S (Real): 1131.52**

**Sat. BTU W/O H2S (Real): 1112.15**

**H2O (# / mmcf): 0.0**

**AS DEL. BTU W/O H2S (Real): 1131.52**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.8083**

Field Gravity:  
 Lab Gravitometer:

**GPM Ethane+ (Real): 5.052**

**GPM Propane+ (Real): 2.602**

**GPM IC5+ (Real): 0.612**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

P.O. Box 988  
 Monahans, Texas 79756  
 (432) 943-8844 (FAX) 943-8855

**GAS ANALYSIS REPORT**

Analysis No.: 344148  
 Customer: Centennial

| <u>Component</u> | <u>Mol. %</u> | <u>(Ideal)</u><br><u>BTU</u> | <u>(Ideal)</u><br><u>SG</u> | <u>(Real)</u><br><u>GPM</u> |  |
|------------------|---------------|------------------------------|-----------------------------|-----------------------------|--|
| Nitrogen         | 2.2708        | 0.000                        | 0.022                       |                             |  |
| Methane          | 78.1546       | 786.891                      | 0.433                       |                             |  |
| CO2              | 1.2768        | 0.000                        | 0.019                       |                             |  |
| Ethane           | 10.1338       | 178.777                      | 0.105                       | 2.704                       |  |
| H2S              | 0.0070        | 0.000                        | 0.000                       |                             |  |
| Propane          | 4.9255        | 123.543                      | 0.075                       | 1.354                       |  |
| Iso-Butane       | 0.6051        | 19.616                       | 0.012                       | 0.198                       |  |
| Butane           | 1.4647        | 47.633                       | 0.029                       | 0.461                       |  |
| Iso-Pentane      | 0.3273        | 13.054                       | 0.008                       | 0.119                       |  |
| Pentane          | 0.3091        | 12.352                       | 0.008                       | 0.112                       |  |
| Hexanes C6+      | 0.5253        | 26.859                       | 0.017                       | 0.229                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1208.724                     | 0.729                       | 5.177                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** CHIMICHANGAS 12 STATE COM 602H  
**Sta. No.:** 84083  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002546615

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/18/24  
 Date to Lab: 11/18/24  
 Date Analyzed: 11/22/24  
 Effective Date:

Sample Press. (PSIG): 150  
 Line Press. (PSIG): 150  
 Sample Temp. (F): 76  
 Fl. Gas Temp. (F): 76  
 Amb. Temp. (F): 46

Del. To:  
 Sampled By: IF  
 Cylinder No.: 187

**Field H2O (#/mm):**

Field H2S (PPM): 70.0  
 Field H2S (Grains): 4.41

**Pressure Base: 14.65**  
**Temp. Base: 60**

Z Factor (Dry): 0.9965603  
 Z Factor (Act.): 0.9965603

Dry BTU w/ H2S: 1212.94  
 Sat BTU w/ H2S: 1192.17  
 As Del. BTU w/ H2S: 1212.94

**Dry BTU W/O H2S (Real): 1212.90**  
**Sat. BTU W/O H2S (Real): 1192.13**  
**H2O (# / mmcf): 0.0**  
**AS DEL. BTU W/O H2S (Real): 1212.90**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7311**  
 Field Gravity:  
 Lab Gravitometer:

**GPM Ethane+ (Real): 5.177**  
**GPM Propane+ (Real): 2.473**  
**GPM IC5+ (Real): 0.460**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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**GAS ANALYSIS REPORT**

Analysis No.: 344147  
 Customer: Centennial

| <u>Component</u> | <u>Mol. %</u> | (Ideal)<br><u>BTU</u> | (Ideal)<br><u>SG</u> | (Real)<br><u>GPM</u> |  |
|------------------|---------------|-----------------------|----------------------|----------------------|--|
| Nitrogen         | 1.9168        | 0.000                 | 0.019                |                      |  |
| Methane          | 80.6726       | 812.243               | 0.447                |                      |  |
| CO2              | 2.4495        | 0.000                 | 0.037                |                      |  |
| Ethane           | 7.7620        | 136.934               | 0.081                | 2.071                |  |
| H2S              | 0.0100        | 0.000                 | 0.000                |                      |  |
| Propane          | 3.9234        | 98.408                | 0.060                | 1.078                |  |
| Iso-Butane       | 0.5791        | 18.773                | 0.012                | 0.189                |  |
| Butane           | 1.3085        | 42.554                | 0.026                | 0.412                |  |
| Iso-Pentane      | 0.3945        | 15.734                | 0.010                | 0.144                |  |
| Pentane          | 0.3450        | 13.787                | 0.009                | 0.125                |  |
| Hexanes C6+      | 0.6386        | 32.653                | 0.021                | 0.278                |  |
| Hydrogen         | N/A           |                       |                      |                      |  |
| Helium           | N/A           |                       |                      |                      |  |
| Oxygen           | N/A           |                       |                      |                      |  |
| CO               | N/A           |                       |                      |                      |  |
| Totals           | 100.0000      | 1171.085              | 0.720                | 4.297                |  |

**Producer:** Centennial  
**Well / Sta. Name:** Donkey Kong 1 Fed Com 502H  
**Sta. No.:** 48172  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002545679

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/20/24  
 Date to Lab: 11/21/24  
 Date Analyzed: 11/22/24  
 Effective Date:

Sample Press. (PSIG): 142  
 Line Press. (PSIG): 142  
 Sample Temp. (F): 86  
 Fl. Gas Temp. (F): 86  
 Amb. Temp. (F): 67

Del. To:  
 Sampled By: RO  
 Cylinder No.: AGL-755

**Field H2O (#/mm):**

Field H2S (PPM): 100.0  
 Field H2S (Grains): 6.29

**Pressure Base: 14.65**  
**Temp. Base: 60**

Z Factor (Dry): 0.9967081  
 Z Factor (Act.): 0.9967081

Dry BTU w/ H2S: 1175.02  
 Sat BTU w/ H2S: 1154.89  
 As Del. BTU w/ H2S: 1175.02

**Dry BTU W/O H2S (Real): 1174.95**

**Sat. BTU W/O H2S (Real): 1154.83**

**H2O (# / mmcf): 0.0**

**AS DEL. BTU W/O H2S (Real): 1174.95**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7220**

Field Gravity:  
 Lab Gravitometer:

**GPM Ethane+ (Real): 4.297**  
**GPM Propane+ (Real): 2.226**  
**GPM IC5+ (Real): 0.547**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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**GAS ANALYSIS REPORT**

Analysis No.: 344146  
 Customer: Centennial

| <u>Component</u> | <u>Mol. %</u> | <u>(Ideal)</u><br><u>BTU</u> | <u>(Ideal)</u><br><u>SG</u> | <u>(Real)</u><br><u>GPM</u> |  |
|------------------|---------------|------------------------------|-----------------------------|-----------------------------|--|
| Nitrogen         | 1.9127        | 0.000                        | 0.018                       |                             |  |
| Methane          | 80.6275       | 811.789                      | 0.447                       |                             |  |
| CO2              | 2.4661        | 0.000                        | 0.037                       |                             |  |
| Ethane           | 7.8327        | 138.181                      | 0.081                       | 2.090                       |  |
| H2S              | 0.0100        | 0.000                        | 0.000                       |                             |  |
| Propane          | 3.9426        | 98.889                       | 0.060                       | 1.084                       |  |
| Iso-Butane       | 0.5827        | 18.890                       | 0.012                       | 0.190                       |  |
| Butane           | 1.3583        | 44.173                       | 0.027                       | 0.427                       |  |
| Iso-Pentane      | 0.4110        | 16.392                       | 0.010                       | 0.150                       |  |
| Pentane          | 0.3605        | 14.406                       | 0.009                       | 0.130                       |  |
| Hexanes C6+      | 0.4959        | 25.356                       | 0.016                       | 0.216                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1168.077                     | 0.718                       | 4.287                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Donkey Kong 1 Fed Com 501H  
**Sta. No.:** 47408  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002545678

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/20/24  
 Date to Lab: 11/21/24  
 Date Analyzed: 11/22/24  
 Effective Date:

Sample Press. (PSIG): 141  
 Line Press. (PSIG): 141  
 Sample Temp. (F): 82  
 Fl. Gas Temp. (F): 82  
 Amb. Temp. (F): 67

Del. To:  
 Sampled By: RO  
 Cylinder No.: AGL-450

**Field H2O (#/mm):**

Field H2S (PPM): 100.0  
 Field H2S (Grains): 6.29

**Pressure Base: 14.65****Temp. Base: 60**

Z Factor (Dry): 0.9967336

Z Factor (Act.): 0.9967336

Dry BTU w/ H2S: 1171.97

Sat BTU w/ H2S: 1151.89

As Del. BTU w/ H2S: 1171.97

**Dry BTU W/O H2S (Real): 1171.90****Sat. BTU W/O H2S (Real): 1151.83****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1171.90***BTU Calc: Dry***Sp. Gravity (Real): 0.7202**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 4.287****GPM Propane+ (Real): 2.197****GPM IC5+ (Real): 0.496**

GPA 2145 / 2172

**Fld. Remarks:****Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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**GAS ANALYSIS REPORT**

Analysis No.: 344145  
 Customer: Centennial

| <u>Component</u> | <u>Mol. %</u> | <u>(Ideal)</u><br><u>BTU</u> | <u>(Ideal)</u><br><u>SG</u> | <u>(Real)</u><br><u>GPM</u> |  |
|------------------|---------------|------------------------------|-----------------------------|-----------------------------|--|
| Nitrogen         | 3.3120        | 0.000                        | 0.032                       |                             |  |
| Methane          | 71.7829       | 722.738                      | 0.398                       |                             |  |
| CO2              | 8.5024        | 0.000                        | 0.129                       |                             |  |
| Ethane           | 8.8515        | 156.155                      | 0.092                       | 2.362                       |  |
| H2S              | 0.2000        | 0.000                        | 0.002                       |                             |  |
| Propane          | 4.1977        | 105.288                      | 0.064                       | 1.154                       |  |
| Iso-Butane       | 0.4973        | 16.121                       | 0.010                       | 0.162                       |  |
| Butane           | 1.2882        | 41.893                       | 0.026                       | 0.405                       |  |
| Iso-Pentane      | 0.3783        | 15.088                       | 0.009                       | 0.138                       |  |
| Pentane          | 0.3844        | 15.361                       | 0.010                       | 0.139                       |  |
| Hexanes C6+      | 0.6053        | 30.950                       | 0.019                       | 0.264                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1103.594                     | 0.791                       | 4.624                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Donkey Kong 1 Fed Com 302H  
**Sta. No.:** N/L  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002545676

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/20/24  
 Date to Lab: 11/21/24  
 Date Analyzed: 11/22/24  
 Effective Date:

Sample Press. (PSIG): 137  
 Line Press. (PSIG): 137  
 Sample Temp. (F): 88  
 Fl. Gas Temp. (F): 88  
 Amb. Temp. (F): 67

Del. To:  
 Sampled By: RO  
 Cylinder No.: AGL-439

**Field H2O (#/mm):**

Field H2S (PPM): 2,000.0  
 Field H2S (Grains): 125.87

**Pressure Base: 14.65****Temp. Base: 60**

Z Factor (Dry): 0.9964618

Z Factor (Act.): 0.9964618

Dry BTU w/ H2S: 1108.79

Sat BTU w/ H2S: 1089.80

As Del. BTU w/ H2S: 1108.79

**Dry BTU W/O H2S (Real): 1107.51****Sat. BTU W/O H2S (Real): 1088.55****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1107.51***BTU Calc: Dry***Sp. Gravity (Real): 0.7938**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 4.624****GPM Propane+ (Real): 2.262****GPM IC5+ (Real): 0.541**

GPA 2145 / 2172

**Fld. Remarks:****Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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**GAS ANALYSIS REPORT**

Analysis No.: 344144  
 Customer: Centennial

| <u>Component</u> | <u>Mol. %</u> | <u>(Ideal)</u><br><u>BTU</u> | <u>(Ideal)</u><br><u>SG</u> | <u>(Real)</u><br><u>GPM</u> |  |
|------------------|---------------|------------------------------|-----------------------------|-----------------------------|--|
| Nitrogen         | 1.8343        | 0.000                        | 0.018                       |                             |  |
| Methane          | 79.9245       | 804.711                      | 0.443                       |                             |  |
| CO2              | 1.0848        | 0.000                        | 0.016                       |                             |  |
| Ethane           | 9.5818        | 169.038                      | 0.099                       | 2.556                       |  |
| H2S              | 0.0200        | 0.000                        | 0.000                       |                             |  |
| Propane          | 4.4273        | 111.047                      | 0.067                       | 1.217                       |  |
| Iso-Butane       | 0.6747        | 21.872                       | 0.014                       | 0.220                       |  |
| Butane           | 1.4990        | 48.749                       | 0.030                       | 0.471                       |  |
| Iso-Pentane      | 0.3455        | 13.780                       | 0.009                       | 0.126                       |  |
| Pentane          | 0.2717        | 10.858                       | 0.007                       | 0.098                       |  |
| Hexanes C6+      | 0.3364        | 17.201                       | 0.011                       | 0.146                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1197.254                     | 0.714                       | 4.834                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Winnebago 30 State Com 604H  
**Sta. No.:** 9883  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002550275

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/20/24  
 Date to Lab: 11/20/24  
 Date Analyzed: 11/22/24  
 Effective Date:

Sample Press. (PSIG): 134  
 Line Press. (PSIG): 134  
 Sample Temp. (F): 41  
 Fl. Gas Temp. (F): 41  
 Amb. Temp. (F): 31

Del. To:  
 Sampled By: JL  
 Cylinder No.: 618

**Field H2O (#/mm):**

Field H2S (PPM): 200.0  
 Field H2S (Grains): 12.59

**Pressure Base: 14.65****Temp. Base: 60**

Z Factor (Dry): 0.9966854

Z Factor (Act.): 0.9966854

Dry BTU w/ H2S: 1201.36

Sat BTU w/ H2S: 1180.78

As Del. BTU w/ H2S: 1201.36

**Dry BTU W/O H2S (Real): 1201.24****Sat. BTU W/O H2S (Real): 1180.66****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1201.24***BTU Calc: Dry***Sp. Gravity (Real): 0.7160**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 4.834****GPM Propane+ (Real): 2.278****GPM IC5+ (Real): 0.370**

GPA 2145 / 2172

**Fld. Remarks:****Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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**GAS ANALYSIS REPORT**

Analysis No.: 344143  
 Customer: Centennial

| <u>Component</u> | <u>Mol. %</u> | <u>(Ideal)</u><br><u>BTU</u> | <u>(Ideal)</u><br><u>SG</u> | <u>(Real)</u><br><u>GPM</u> |  |
|------------------|---------------|------------------------------|-----------------------------|-----------------------------|--|
| Nitrogen         | 1.6620        | 0.000                        | 0.016                       |                             |  |
| Methane          | 77.1211       | 776.485                      | 0.427                       |                             |  |
| CO2              | 4.6761        | 0.000                        | 0.071                       |                             |  |
| Ethane           | 8.6035        | 151.780                      | 0.089                       | 2.296                       |  |
| H2S              | 0.0300        | 0.000                        | 0.000                       |                             |  |
| Propane          | 4.4188        | 110.833                      | 0.067                       | 1.215                       |  |
| Iso-Butane       | 0.6761        | 21.917                       | 0.014                       | 0.221                       |  |
| Butane           | 1.4622        | 47.552                       | 0.029                       | 0.460                       |  |
| Iso-Pentane      | 0.4319        | 17.226                       | 0.011                       | 0.158                       |  |
| Pentane          | 0.3643        | 14.558                       | 0.009                       | 0.132                       |  |
| Hexanes C6+      | 0.5540        | 28.327                       | 0.018                       | 0.241                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1168.678                     | 0.752                       | 4.723                       |  |

**Producer:**  
**Well / Sta. Name:** WINNEBAGO NORTH WINDS SC  
**Sta. No.:** T231308196  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** N/L

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/20/24  
 Date to Lab: 11/21/24  
 Date Analyzed: 11/22/24  
 Effective Date:

Sample Press. (PSIG): 129  
 Line Press. (PSIG): 129  
 Sample Temp. (F): 69  
 Fl. Gas Temp. (F): 69  
 Amb. Temp. (F): 37

Del. To:  
 Sampled By: EL  
 Cylinder No.: 743

**Field H2O (#/mm):**

Field H2S (PPM): 300.0  
 Field H2S (Grains): 18.88

**Pressure Base: 14.65****Temp. Base: 60**

Z Factor (Dry): 0.9965016

Z Factor (Act.): 0.9965016

Dry BTU w/ H2S: 1172.97

Sat BTU w/ H2S: 1152.89

As Del. BTU w/ H2S: 1172.97

**Dry BTU W/O H2S (Real): 1172.78****Sat. BTU W/O H2S (Real): 1152.70****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1172.78***BTU Calc: Dry***Sp. Gravity (Real): 0.7542**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 4.723****GPM Propane+ (Real): 2.427****GPM IC5+ (Real): 0.531**

GPA 2145 / 2172

**Fld. Remarks: TAG: NO API PER WHITNEY****Lab Remarks: CP @ LAB 144 PSIG**

**ARMSTRONG GAS LABS, INC.**

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**GAS ANALYSIS REPORT**

Analysis No.: 344142  
 Customer: Centennial

| <u>Component</u> | <u>Mol. %</u> | <u>(Ideal)</u><br><u>BTU</u> | <u>(Ideal)</u><br><u>SG</u> | <u>(Real)</u><br><u>GPM</u> |  |
|------------------|---------------|------------------------------|-----------------------------|-----------------------------|--|
| Nitrogen         | 1.4187        | 0.000                        | 0.014                       |                             |  |
| Methane          | 79.4743       | 800.178                      | 0.440                       |                             |  |
| CO2              | 1.0235        | 0.000                        | 0.016                       |                             |  |
| Ethane           | 10.4907       | 185.073                      | 0.109                       | 2.799                       |  |
| H2S              | 0.0050        | 0.000                        | 0.000                       |                             |  |
| Propane          | 4.7775        | 119.830                      | 0.073                       | 1.313                       |  |
| Iso-Butane       | 0.6443        | 20.886                       | 0.013                       | 0.210                       |  |
| Butane           | 1.4107        | 45.877                       | 0.028                       | 0.444                       |  |
| Iso-Pentane      | 0.2864        | 11.423                       | 0.007                       | 0.104                       |  |
| Pentane          | 0.2279        | 9.107                        | 0.006                       | 0.082                       |  |
| Hexanes C6+      | 0.2410        | 12.323                       | 0.008                       | 0.105                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1204.697                     | 0.713                       | 5.057                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Winnebago 30 State Com 601H  
**Sta. No.:** 69881  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002550272

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/20/24  
 Date to Lab: 11/20/24  
 Date Analyzed: 11/22/24  
 Effective Date:

Sample Press. (PSIG): 123  
 Line Press. (PSIG): 123  
 Sample Temp. (F): 31  
 Fl. Gas Temp. (F): 31  
 Amb. Temp. (F): 31

Del. To:  
 Sampled By: JL  
 Cylinder No.: 809

**Field H2O (#/mm):**

Field H2S (PPM): 50.0  
 Field H2S (Grains): 3.15

**Pressure Base: 14.65**  
**Temp. Base: 60**

Z Factor (Dry): 0.9966616  
 Z Factor (Act.): 0.9966616

Dry BTU w/ H2S: 1208.76

Sat BTU w/ H2S: 1188.06

As Del. BTU w/ H2S: 1208.76

**Dry BTU W/O H2S (Real): 1208.73**

**Sat. BTU W/O H2S (Real): 1188.03**

**H2O (# / mmcf): 0.0**

**AS DEL. BTU W/O H2S (Real): 1208.73**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7151**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 5.057**

**GPM Propane+ (Real): 2.258**

**GPM IC5+ (Real): 0.291**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks: CP @ LAB 144 PSIG**

**ARMSTRONG GAS LABS, INC.**

P.O. Box 988  
 Monahans, Texas 79756  
 (432) 943-8844 (FAX) 943-8855

**GAS ANALYSIS REPORT**

Analysis No.: 344141  
 Customer: Centennial

| <u>Component</u> | <u>Mol. %</u> | <u>(Ideal)</u><br><u>BTU</u> | <u>(Ideal)</u><br><u>SG</u> | <u>(Real)</u><br><u>GPM</u> |  |
|------------------|---------------|------------------------------|-----------------------------|-----------------------------|--|
| Nitrogen         | 2.0616        | 0.000                        | 0.020                       |                             |  |
| Methane          | 74.3536       | 748.621                      | 0.412                       |                             |  |
| CO2              | 3.8488        | 0.000                        | 0.058                       |                             |  |
| Ethane           | 10.7385       | 189.444                      | 0.111                       | 2.866                       |  |
| H2S              | 0.0100        | 0.000                        | 0.000                       |                             |  |
| Propane          | 5.6592        | 141.945                      | 0.086                       | 1.556                       |  |
| Iso-Butane       | 0.6818        | 22.102                       | 0.014                       | 0.223                       |  |
| Butane           | 1.5028        | 48.872                       | 0.030                       | 0.473                       |  |
| Iso-Pentane      | 0.3227        | 12.870                       | 0.008                       | 0.118                       |  |
| Pentane          | 0.3006        | 12.012                       | 0.007                       | 0.109                       |  |
| Hexanes C6+      | 0.5204        | 26.609                       | 0.017                       | 0.227                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1202.477                     | 0.764                       | 5.572                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Carne Asada State Com 501H  
**Sta. No.:** 9608  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002546021

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/18/24  
 Date to Lab: 11/19/24  
 Date Analyzed: 11/22/24  
 Effective Date:

Sample Press. (PSIG): 113  
 Line Press. (PSIG): 113  
 Sample Temp. (F): 72  
 Fl. Gas Temp. (F): 72  
 Amb. Temp. (F): 45

Del. To:  
 Sampled By: JT  
 Cylinder No.: 800

**Field H2O (#/mm):**

Field H2S (PPM): 100.0  
 Field H2S (Grains): 6.29

**Pressure Base: 14.65**  
**Temp. Base: 60**

Z Factor (Dry): 0.9963367  
 Z Factor (Act.): 0.9963367

Dry BTU w/ H2S: 1206.96  
 Sat BTU w/ H2S: 1186.30  
 As Del. BTU w/ H2S: 1206.96

**Dry BTU W/O H2S (Real): 1206.90**  
**Sat. BTU W/O H2S (Real): 1186.24**  
**H2O (# / mmcf): 0.0**  
**AS DEL. BTU W/O H2S (Real): 1206.90**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7666**  
 Field Gravity:  
 Lab Gravitometer:

**GPM Ethane+ (Real): 5.572**  
**GPM Propane+ (Real): 2.706**  
**GPM IC5+ (Real): 0.454**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks: CP @ LAB 153 PSIG**

**ARMSTRONG GAS LABS, INC.**

P.O. Box 988  
 Monahans, Texas 79756  
 (432) 943-8844 (FAX) 943-8855

**GAS ANALYSIS REPORT**

Analysis No.: 344140  
 Customer: Centennial

| <u>Component</u> | <u>Mol. %</u> | <u>(Ideal)</u><br><u>BTU</u> | <u>(Ideal)</u><br><u>SG</u> | <u>(Real)</u><br><u>GPM</u> |  |
|------------------|---------------|------------------------------|-----------------------------|-----------------------------|--|
| Nitrogen         | 1.4871        | 0.000                        | 0.014                       |                             |  |
| Methane          | 72.2906       | 727.850                      | 0.400                       |                             |  |
| CO2              | 0.2681        | 0.000                        | 0.004                       |                             |  |
| Ethane           | 14.6711       | 258.822                      | 0.152                       | 3.917                       |  |
| H2S              | 0.0100        | 0.000                        | 0.000                       |                             |  |
| Propane          | 7.2355        | 181.483                      | 0.110                       | 1.990                       |  |
| Iso-Butane       | 0.7374        | 23.904                       | 0.015                       | 0.241                       |  |
| Butane           | 1.8677        | 60.739                       | 0.037                       | 0.588                       |  |
| Iso-Pentane      | 0.4012        | 16.001                       | 0.010                       | 0.147                       |  |
| Pentane          | 0.3929        | 15.701                       | 0.010                       | 0.142                       |  |
| Hexanes C6+      | 0.6384        | 32.642                       | 0.021                       | 0.278                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1317.142                     | 0.774                       | 7.303                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** MERCHANT LIVESTOCK 24-2H  
**Sta. No.:** 22414-1  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002541347

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/19/24  
 Date to Lab: 11/21/24  
 Date Analyzed: 11/22/24  
 Effective Date:

Sample Press. (PSIG): 62  
 Line Press. (PSIG): 62  
 Sample Temp. (F): 71  
 Fl. Gas Temp. (F): 71  
 Amb. Temp. (F): 44

Del. To:  
 Sampled By: EL  
 Cylinder No.: 799

**Field H2O (#/mm):**

Field H2S (PPM): 100.0  
 Field H2S (Grains): 6.29

**Pressure Base: 14.65**  
**Temp. Base: 60**

Z Factor (Dry): 0.9958984  
 Z Factor (Act.): 0.9958984

Dry BTU w/ H2S: 1322.63

Sat BTU w/ H2S: 1300.01

As Del. BTU w/ H2S: 1322.63

**Dry BTU W/O H2S (Real): 1322.57**

**Sat. BTU W/O H2S (Real): 1299.95**

**H2O (# / mmcf): 0.0**

**AS DEL. BTU W/O H2S (Real): 1322.57**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7769**

Field Gravity:  
 Lab Gravitometer:

**GPM Ethane+ (Real): 7.303**

**GPM Propane+ (Real): 3.386**

**GPM IC5+ (Real): 0.567**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks: CP @ LAB 37 PSIG**

**ARMSTRONG GAS LABS, INC.**

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 Monahans, Texas 79756  
 (432) 943-8844 (FAX) 943-8855

**GAS ANALYSIS REPORT**

Analysis No.: 344139  
 Customer: Centennial

| <u>Component</u> | <u>Mol. %</u> | <u>(Ideal)</u><br><u>BTU</u> | <u>(Ideal)</u><br><u>SG</u> | <u>(Real)</u><br><u>GPM</u> |  |
|------------------|---------------|------------------------------|-----------------------------|-----------------------------|--|
| Nitrogen         | 1.6249        | 0.000                        | 0.016                       |                             |  |
| Methane          | 78.7736       | 793.123                      | 0.436                       |                             |  |
| CO2              | 0.5447        | 0.000                        | 0.008                       |                             |  |
| Ethane           | 10.5009       | 185.253                      | 0.109                       | 2.802                       |  |
| H2S              | 0.0003        | 0.000                        | 0.000                       |                             |  |
| Propane          | 5.0826        | 127.483                      | 0.077                       | 1.397                       |  |
| Iso-Butane       | 0.6786        | 21.998                       | 0.014                       | 0.222                       |  |
| Butane           | 1.5448        | 50.238                       | 0.031                       | 0.486                       |  |
| Iso-Pentane      | 0.3753        | 14.968                       | 0.009                       | 0.137                       |  |
| Pentane          | 0.3317        | 13.255                       | 0.008                       | 0.120                       |  |
| Hexanes C6+      | 0.5426        | 27.744                       | 0.017                       | 0.236                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1234.063                     | 0.726                       | 5.400                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** MERCHANT GAP 36 STATE COM 1H  
**Sta. No.:** 50714-1  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002541352

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/19/24  
 Date to Lab: 11/21/24  
 Date Analyzed: 11/22/24  
 Effective Date:

Sample Press. (PSIG): 56  
 Line Press. (PSIG): 56  
 Sample Temp. (F): 79  
 Fl. Gas Temp. (F): 79  
 Amb. Temp. (F): 61

Del. To:  
 Sampled By: EL  
 Cylinder No.: 768

**Field H2O (#/mm):**

Field H2S (PPM): 2.5  
 Field H2S (Grains): 0.16

**Pressure Base: 14.65****Temp. Base: 60**

Z Factor (Dry): 0.9964849

Z Factor (Act.): 0.9964849

Dry BTU w/ H2S: 1238.42

Sat BTU w/ H2S: 1217.21

As Del. BTU w/ H2S: 1238.42

**Dry BTU W/O H2S (Real): 1238.42****Sat. BTU W/O H2S (Real): 1217.21****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1238.42***BTU Calc: Dry***Sp. Gravity (Real): 0.7287**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 5.400****GPM Propane+ (Real): 2.598****GPM IC5+ (Real): 0.493**

GPA 2145 / 2172

**Fld. Remarks:****Lab Remarks:**

Volumes associated with this C-129 filing are estimations and may be subject to change as data is reconciled. The operator's current practice consists of metering volumes and report in accordance with NMAC 19.15.27.

For inquiries regarding this filing, please contact the operator.

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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 444986

DEFINITIONS

|                                                                                                         |                                                            |
|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Operator:<br><br>Permian Resources Operating, LLC<br>300 N. Marienfeld St Ste 1000<br>Midland, TX 79701 | OGRID:<br><br>372165                                       |
|                                                                                                         | Action Number:<br><br>444986                               |
|                                                                                                         | Action Type:<br><br>[C-129] Venting and/or Flaring (C-129) |

DEFINITIONS

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application:</p> <ul style="list-style-type: none"><li>• this application's operator, hereinafter "this operator";</li><li>• venting and/or flaring, hereinafter "vent or flare";</li><li>• any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";</li><li>• the statements in (and/or attached to) this, hereinafter "the statements in this";</li><li>• and the past tense will be used in lieu of mixed past/present tense questions and statements.</li></ul> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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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**

QUESTIONS

Action 444986

**QUESTIONS**

|                                                                                                     |                                                        |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>Permian Resources Operating, LLC<br>300 N. Marienfeld St Ste 1000<br>Midland, TX 79701 | OGRID:<br>372165                                       |
|                                                                                                     | Action Number:<br>444986                               |
|                                                                                                     | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

**QUESTIONS**

|                                                                                                                                                                                                   |                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| <b>Prerequisites</b><br><i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i> |                                        |
| Incident Well                                                                                                                                                                                     | Unavailable.                           |
| Incident Facility                                                                                                                                                                                 | [fAPP2220762496] Chimichangas 12 CTB 2 |

|                                                                                                                                                                                                                                                                                            |                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <b>Determination of Reporting Requirements</b><br><i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>                                                                                               |                                                   |
| Was this vent or flare caused by an emergency or malfunction                                                                                                                                                                                                                               | No                                                |
| Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event                                                                                                                                                                                 | Yes                                               |
| Is this considered a submission for a vent or flare event                                                                                                                                                                                                                                  | Yes, minor venting and/or flaring of natural gas. |
| <i>An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during venting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.</i>                                                                                     |                                                   |
| Was there <b>at least 50 MCF</b> of natural gas vented and/or flared during this event                                                                                                                                                                                                     | Yes                                               |
| Did this vent or flare result in the release of <b>ANY</b> liquids (not fully and/or completely flared) that reached (or has a chance of reaching) the ground, a surface, a watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water | No                                                |
| Was the vent or flare within an incorporated municipal boundary or withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence                                                                                                             | No                                                |

|                                                           |               |
|-----------------------------------------------------------|---------------|
| <b>Equipment Involved</b>                                 |               |
| Primary Equipment Involved                                | Not answered. |
| Additional details for Equipment Involved. Please specify | Not answered. |

|                                                                                                                                                                    |               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Representative Compositional Analysis of Vented or Flared Natural Gas</b><br><i>Please provide the mole percent for the percentage questions in this group.</i> |               |
| Methane (CH4) percentage                                                                                                                                           | 70            |
| Nitrogen (N2) percentage, if greater than one percent                                                                                                              | 4             |
| Hydrogen Sulfide (H2S) PPM, rounded up                                                                                                                             | 0             |
| Carbon Dioxide (CO2) percentage, if greater than one percent                                                                                                       | 8             |
| Oxygen (O2) percentage, if greater than one percent                                                                                                                | 0             |
| <i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>                               |               |
| Methane (CH4) percentage quality requirement                                                                                                                       | Not answered. |
| Nitrogen (N2) percentage quality requirement                                                                                                                       | Not answered. |
| Hydrogen Sulfide (H2S) PPM quality requirement                                                                                                                     | Not answered. |
| Carbon Dioxide (CO2) percentage quality requirement                                                                                                                | Not answered. |
| Oxygen (O2) percentage quality requirement                                                                                                                         | Not answered. |

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QUESTIONS, Page 2

Action 444986

**QUESTIONS (continued)**

|                                                                                                     |                                                        |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>Permian Resources Operating, LLC<br>300 N. Marienfeld St Ste 1000<br>Midland, TX 79701 | OGRID:<br>372165                                       |
|                                                                                                     | Action Number:<br>444986                               |
|                                                                                                     | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

**QUESTIONS**

| Date(s) and Time(s)                            |            |
|------------------------------------------------|------------|
| Date vent or flare was discovered or commenced | 03/13/2025 |
| Time vent or flare was discovered or commenced | 12:00 AM   |
| Time vent or flare was terminated              | 11:59 PM   |
| Cumulative hours during this event             | 24         |

| Measured or Estimated Volume of Vented or Flared Natural Gas              |                                                                                                                       |
|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Natural Gas Vented (Mcf) Details                                          | Not answered.                                                                                                         |
| Natural Gas Flared (Mcf) Details                                          | Cause: Repair and Maintenance   Tank (Any)   Natural Gas Flared   Released: 66 Mcf   Recovered: 0 Mcf   Lost: 66 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 | Not answered. |
| Downstream OGRID that should have notified this operator          | Not answered. |
| Date notified of downstream activity requiring this vent or flare | Not answered. |
| Time notified of downstream activity requiring this vent or flare | Not answered. |

| Steps and Actions to Prevent Waste                                                                                               |                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control. | True                                                                                     |
| Please explain reason for why this event was beyond this operator's control                                                      | compressor dump held open pushing gas to tanks                                           |
| Steps taken to limit the duration and magnitude of vent or flare                                                                 | open valves to divert gas to a second midstream company to relieve pressure off the line |
| Corrective actions taken to eliminate the cause and reoccurrence of vent or flare                                                | Clear consistent communication with midstream provider                                   |



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

ACKNOWLEDGMENTS

Action 444986

**ACKNOWLEDGMENTS**

|                                                                                                     |                                                        |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>Permian Resources Operating, LLC<br>300 N. Marienfeld St Ste 1000<br>Midland, TX 79701 | OGRID:<br>372165                                       |
|                                                                                                     | Action Number:<br>444986                               |
|                                                                                                     | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

**ACKNOWLEDGMENTS**

|                                     |                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a <b>complete</b> C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.                                                                                      |
| <input checked="" type="checkbox"/> | I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively. |
| <input checked="" type="checkbox"/> | I hereby certify the statements in this report are true and correct to the best of my knowledge and acknowledge that any false statement may be subject to civil and criminal penalties under the Oil and Gas Act.                                                                                                        |
| <input checked="" type="checkbox"/> | I acknowledge that the acceptance of any C-129 forms by the OCD does not relieve this operator of liability should their operations have failed to adequately investigate, report, and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment.                       |
| <input checked="" type="checkbox"/> | I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations.                                                                                                                          |

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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

CONDITIONS

Action 444986

CONDITIONS

|                                                                                                     |                                                        |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>Permian Resources Operating, LLC<br>300 N. Marienfeld St Ste 1000<br>Midland, TX 79701 | OGRID:<br>372165                                       |
|                                                                                                     | Action Number:<br>444986                               |
|                                                                                                     | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

CONDITIONS

| Created By | Condition                                                                                                                                                                          | Condition Date |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| cdowning   | If the information provided in this report requires an amendment, submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event. | 3/24/2025      |