

**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 540370  
 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         | 3.0033        | 0.000                        | 0.029                       |                             |  |
| Methane          | 73.4768       | 739.793                      | 0.407                       |                             |  |
| CO2              | 6.0491        | 0.000                        | 0.092                       |                             |  |
| Ethane           | 9.9739        | 175.956                      | 0.104                       | 2.661                       |  |
| H2S              | 0.0003        | 0.000                        | 0.000                       |                             |  |
| Propane          | 4.7047        | 118.004                      | 0.072                       | 1.293                       |  |
| Iso-Butane       | 0.5784        | 18.750                       | 0.012                       | 0.189                       |  |
| Butane           | 1.3467        | 43.796                       | 0.027                       | 0.424                       |  |
| Iso-Pentane      | 0.2933        | 11.698                       | 0.007                       | 0.107                       |  |
| Pentane          | 0.2807        | 11.217                       | 0.007                       | 0.102                       |  |
| Hexanes C6+      | 0.2928        | 14.971                       | 0.009                       | 0.127                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1134.185                     | 0.765                       | 4.903                       |  |

**Producer:**  
**Well / Sta. Name:** CHORIZO 602 INJECTION  
**Sta. No.:** 7132  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** N/L

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/13/24  
 Date to Lab: 11/13/24  
 Date Analyzed: 11/20/24  
 Effective Date:

Sample Press. (PSIG): 1159  
 Line Press. (PSIG): 1159  
 Sample Temp. (F): 98  
 Fl. Gas Temp. (F): 98  
 Amb. Temp. (F): 50

Del. To:  
 Sampled By: JL  
 Cylinder No.: 476

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

Field H2S (PPM): 3.0  
 Field H2S (Grains): 0.19

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

Z Factor (Dry): 0.9965607  
 Z Factor (Act.): 0.9965607

Dry BTU w/ H2S: 1138.10  
 Sat BTU w/ H2S: 1118.61  
 As Del. BTU w/ H2S: 1138.10

**Dry BTU W/O H2S (Real): 1138.10**

**Sat. BTU W/O H2S (Real): 1118.61**

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

**AS DEL. BTU W/O H2S (Real): 1138.10**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7678**

Field Gravity:  
 Lab Gravitometer:

**GPM Ethane+ (Real): 4.903**  
**GPM Propane+ (Real): 2.242**  
**GPM IC5+ (Real): 0.336**

GPA 2145 / 2172

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

**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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 (432) 943-8844 (FAX) 943-8855

**GAS ANALYSIS REPORT**

Analysis No.: 540369  
 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         | 2.2820        | 0.000                        | 0.022                       |                             |  |
| Methane          | 79.1951       | 797.367                      | 0.439                       |                             |  |
| CO2              | 1.6926        | 0.000                        | 0.026                       |                             |  |
| Ethane           | 9.6579        | 170.381                      | 0.100                       | 2.577                       |  |
| H2S              | 0.0008        | 0.000                        | 0.000                       |                             |  |
| Propane          | 4.4636        | 111.957                      | 0.068                       | 1.227                       |  |
| Iso-Butane       | 0.5518        | 17.888                       | 0.011                       | 0.180                       |  |
| Butane           | 1.2932        | 42.056                       | 0.026                       | 0.407                       |  |
| Iso-Pentane      | 0.2869        | 11.443                       | 0.007                       | 0.105                       |  |
| Pentane          | 0.2657        | 10.618                       | 0.007                       | 0.096                       |  |
| Hexanes C6+      | 0.3104        | 15.871                       | 0.010                       | 0.135                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1177.580                     | 0.715                       | 4.727                       |  |

**Producer:**  
**Well / Sta. Name:** CHIMICHANGA 12 SR COM 601H INJ  
**Sta. No.:** 99635  
**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: 11/20/24  
 Effective Date:

Sample Press. (PSIG): 1084  
 Line Press. (PSIG): 1084  
 Sample Temp. (F): 121  
 Fl. Gas Temp. (F): 121  
 Amb. Temp. (F): 65

Del. To:  
 Sampled By: IF  
 Cylinder No.: 846

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

Field H2S (PPM): 8.0  
 Field H2S (Grains): 0.50

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

Z Factor (Dry): 0.9967428  
 Z Factor (Act.): 0.9967428

Dry BTU w/ H2S: 1181.43  
 Sat BTU w/ H2S: 1161.19  
 As Del. BTU w/ H2S: 1181.43

**Dry BTU W/O H2S (Real): 1181.43**  
**Sat. BTU W/O H2S (Real): 1161.19**  
**H2O (# / mmcf): 0.0**  
**AS DEL. BTU W/O H2S (Real): 1181.43**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7175**  
 Field Gravity:  
 Lab Gravitometer:

**GPM Ethane+ (Real): 4.727**  
**GPM Propane+ (Real): 2.150**  
**GPM IC5+ (Real): 0.336**

GPA 2145 / 2172

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

**Lab Remarks: HIGH TEMP**

**ARMSTRONG GAS LABS, INC.**

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**GAS ANALYSIS REPORT**

Analysis No.: 540368  
 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         | 2.1179        | 0.000                        | 0.020                       |                             |  |
| Methane          | 78.1019       | 786.360                      | 0.433                       |                             |  |
| CO2              | 2.2365        | 0.000                        | 0.034                       |                             |  |
| Ethane           | 10.2045       | 180.024                      | 0.106                       | 2.723                       |  |
| H2S              | 0.0100        | 0.000                        | 0.000                       |                             |  |
| Propane          | 4.6359        | 116.279                      | 0.071                       | 1.274                       |  |
| Iso-Butane       | 0.5830        | 18.899                       | 0.012                       | 0.190                       |  |
| Butane           | 1.2503        | 40.661                       | 0.025                       | 0.393                       |  |
| Iso-Pentane      | 0.2707        | 10.797                       | 0.007                       | 0.099                       |  |
| Pentane          | 0.2397        | 9.579                        | 0.006                       | 0.087                       |  |
| Hexanes C6+      | 0.3496        | 17.876                       | 0.011                       | 0.152                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1180.474                     | 0.724                       | 4.918                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Tostada 7 State Com 501H  
**Sta. No.:** 70003  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002550705

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/13/24  
 Date to Lab: 11/14/24  
 Date Analyzed: 11/20/24  
 Effective Date:

Sample Press. (PSIG): 203  
 Line Press. (PSIG): 203  
 Sample Temp. (F): 76  
 Fl. Gas Temp. (F): 76  
 Amb. Temp. (F): 77

Del. To:  
 Sampled By: RO  
 Cylinder No.: AGL-665

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

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

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

Z Factor (Dry): 0.9966697

Z Factor (Act.): 0.9966697

Dry BTU w/ H2S: 1184.48

Sat BTU w/ H2S: 1164.19

As Del. BTU w/ H2S: 1184.48

**Dry BTU W/O H2S (Real): 1184.42****Sat. BTU W/O H2S (Real): 1164.13****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1184.42***BTU Calc: Dry***Sp. Gravity (Real): 0.7266**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 4.918****GPM Propane+ (Real): 2.195****GPM IC5+ (Real): 0.338**

GPA 2145 / 2172

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

**ARMSTRONG GAS LABS, INC.**

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**GAS ANALYSIS REPORT**

Analysis No.: 540367  
 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         | 2.1617        | 0.000                        | 0.021                       |                             |  |
| Methane          | 78.0226       | 785.562                      | 0.432                       |                             |  |
| CO2              | 0.9998        | 0.000                        | 0.015                       |                             |  |
| Ethane           | 11.0092       | 194.220                      | 0.114                       | 2.938                       |  |
| H2S              | 0.0007        | 0.000                        | 0.000                       |                             |  |
| Propane          | 4.8905        | 122.665                      | 0.074                       | 1.344                       |  |
| Iso-Butane       | 0.5749        | 18.637                       | 0.012                       | 0.188                       |  |
| Butane           | 1.3354        | 43.428                       | 0.027                       | 0.420                       |  |
| Iso-Pentane      | 0.2850        | 11.367                       | 0.007                       | 0.104                       |  |
| Pentane          | 0.2788        | 11.141                       | 0.007                       | 0.101                       |  |
| Hexanes C6+      | 0.4414        | 22.570                       | 0.014                       | 0.192                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1209.589                     | 0.724                       | 5.287                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Gordita 6 State Com 601H  
**Sta. No.:** 59523  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002549034

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/13/24  
 Date to Lab: 11/14/24  
 Date Analyzed: 11/20/24  
 Effective Date:

Sample Press. (PSIG): 198  
 Line Press. (PSIG): 198  
 Sample Temp. (F): 88  
 Fl. Gas Temp. (F): 88  
 Amb. Temp. (F): 86

Del. To:  
 Sampled By: RO  
 Cylinder No.: AGL-475

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

Field H2S (PPM): 7.0  
 Field H2S (Grains): 0.44

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

Z Factor (Dry): 0.9965911

Z Factor (Act.): 0.9965911

Dry BTU w/ H2S: 1213.73

Sat BTU w/ H2S: 1192.94

As Del. BTU w/ H2S: 1213.73

**Dry BTU W/O H2S (Real): 1213.73****Sat. BTU W/O H2S (Real): 1192.94****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1213.73***BTU Calc: Dry***Sp. Gravity (Real): 0.7258**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 5.287****GPM Propane+ (Real): 2.349****GPM IC5+ (Real): 0.397**

GPA 2145 / 2172

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

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**GAS ANALYSIS REPORT**

Analysis No.: 540366  
 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         | 2.1251        | 0.000                        | 0.021                       |                             |  |
| Methane          | 78.0559       | 785.897                      | 0.432                       |                             |  |
| CO2              | 0.9768        | 0.000                        | 0.015                       |                             |  |
| Ethane           | 11.3104       | 199.534                      | 0.117                       | 3.018                       |  |
| H2S              | 0.0100        | 0.000                        | 0.000                       |                             |  |
| Propane          | 4.8127        | 120.713                      | 0.073                       | 1.323                       |  |
| Iso-Butane       | 0.5402        | 17.512                       | 0.011                       | 0.176                       |  |
| Butane           | 1.2635        | 41.090                       | 0.025                       | 0.397                       |  |
| Iso-Pentane      | 0.2700        | 10.769                       | 0.007                       | 0.099                       |  |
| Pentane          | 0.2602        | 10.398                       | 0.006                       | 0.094                       |  |
| Hexanes C6+      | 0.3752        | 19.185                       | 0.012                       | 0.163                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1205.097                     | 0.720                       | 5.270                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Eric Cartman 6 State Com 601H  
**Sta. No.:** 67652  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002549776

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/13/24  
 Date to Lab: 11/14/24  
 Date Analyzed: 11/20/24  
 Effective Date:

Sample Press. (PSIG): 197  
 Line Press. (PSIG): 197  
 Sample Temp. (F): 69  
 Fl. Gas Temp. (F): 69  
 Amb. Temp. (F): 53

Del. To:  
 Sampled By: EL  
 Cylinder No.: 466

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

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

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

Z Factor (Dry): 0.9966275  
 Z Factor (Act.): 0.9966275

Dry BTU w/ H2S: 1209.24

Sat BTU w/ H2S: 1188.53

As Del. BTU w/ H2S: 1209.24

**Dry BTU W/O H2S (Real): 1209.17**

**Sat. BTU W/O H2S (Real): 1188.46**

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

**AS DEL. BTU W/O H2S (Real): 1209.17**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7222**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 5.270**

**GPM Propane+ (Real): 2.252**

**GPM IC5+ (Real): 0.356**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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**GAS ANALYSIS REPORT**

Analysis No.: 540365  
 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         | 2.1884        | 0.000                        | 0.021                       |                             |  |
| Methane          | 78.5106       | 790.475                      | 0.435                       |                             |  |
| CO2              | 1.9763        | 0.000                        | 0.030                       |                             |  |
| Ethane           | 9.7025        | 171.168                      | 0.101                       | 2.589                       |  |
| H2S              | 0.0050        | 0.000                        | 0.000                       |                             |  |
| Propane          | 4.5008        | 112.890                      | 0.069                       | 1.237                       |  |
| Iso-Butane       | 0.5778        | 18.731                       | 0.012                       | 0.189                       |  |
| Butane           | 1.3328        | 43.344                       | 0.027                       | 0.419                       |  |
| Iso-Pentane      | 0.3314        | 13.217                       | 0.008                       | 0.121                       |  |
| Pentane          | 0.3175        | 12.688                       | 0.008                       | 0.115                       |  |
| Hexanes C6+      | 0.5569        | 28.475                       | 0.018                       | 0.242                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1190.988                     | 0.728                       | 4.912                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** MARGARITA 12 STATE COM 501H  
**Sta. No.:** 70005  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002549902

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/18/24  
 Date to Lab: 11/18/24  
 Date Analyzed: 11/20/24  
 Effective Date:

Sample Press. (PSIG): 175  
 Line Press. (PSIG): 175  
 Sample Temp. (F): 89  
 Fl. Gas Temp. (F): 89  
 Amb. Temp. (F): 46

Del. To:  
 Sampled By: IF  
 Cylinder No.: 788

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

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

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

Z Factor (Dry): 0.9966121  
 Z Factor (Act.): 0.9966121

Dry BTU w/ H2S: 1195.07

Sat BTU w/ H2S: 1174.60

As Del. BTU w/ H2S: 1195.07

**Dry BTU W/O H2S (Real): 1195.04**

**Sat. BTU W/O H2S (Real): 1174.57**

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

**AS DEL. BTU W/O H2S (Real): 1195.04**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7300**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 4.912**

**GPM Propane+ (Real): 2.323**

**GPM IC5+ (Real): 0.478**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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**GAS ANALYSIS REPORT**

Analysis No.: 540364  
 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         | 2.1132        | 0.000                        | 0.020                       |                             |  |
| Methane          | 77.4677       | 779.975                      | 0.429                       |                             |  |
| CO2              | 2.1636        | 0.000                        | 0.033                       |                             |  |
| Ethane           | 10.4782       | 184.852                      | 0.109                       | 2.796                       |  |
| H2S              | 0.0100        | 0.000                        | 0.000                       |                             |  |
| Propane          | 4.8014        | 120.430                      | 0.073                       | 1.320                       |  |
| Iso-Butane       | 0.5830        | 18.899                       | 0.012                       | 0.190                       |  |
| Butane           | 1.3320        | 43.318                       | 0.027                       | 0.419                       |  |
| Iso-Pentane      | 0.3084        | 12.300                       | 0.008                       | 0.112                       |  |
| Pentane          | 0.2827        | 11.297                       | 0.007                       | 0.102                       |  |
| Hexanes C6+      | 0.4598        | 23.510                       | 0.015                       | 0.200                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1194.582                     | 0.732                       | 5.139                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** ERIC CARTMAN 6 STATE COM 501H  
**Sta. No.:** T230193868  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002550932

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/14/24  
 Date to Lab: 11/18/24  
 Date Analyzed: 11/20/24  
 Effective Date:

Sample Press. (PSIG): 174  
 Line Press. (PSIG): 174  
 Sample Temp. (F): 84  
 Fl. Gas Temp. (F): 84  
 Amb. Temp. (F): 51

Del. To:  
 Sampled By: EL  
 Cylinder No.: 719

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

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

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

Z Factor (Dry): 0.9965736

Z Factor (Act.): 0.9965736

Dry BTU w/ H2S: 1198.75

Sat BTU w/ H2S: 1178.22

As Del. BTU w/ H2S: 1198.75

**Dry BTU W/O H2S (Real): 1198.69****Sat. BTU W/O H2S (Real): 1178.16****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1198.69***BTU Calc: Dry***Sp. Gravity (Real): 0.7346**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 5.139****GPM Propane+ (Real): 2.343****GPM IC5+ (Real): 0.414**

GPA 2145 / 2172

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

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**GAS ANALYSIS REPORT**

Analysis No.: 540363  
 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         | 2.4762        | 0.000                        | 0.024                       |                             |  |
| Methane          | 66.8284       | 672.854                      | 0.370                       |                             |  |
| CO2              | 2.1705        | 0.000                        | 0.033                       |                             |  |
| Ethane           | 16.6627       | 293.957                      | 0.173                       | 4.450                       |  |
| H2S              | 0.0200        | 0.000                        | 0.000                       |                             |  |
| Propane          | 7.8516        | 196.936                      | 0.120                       | 2.160                       |  |
| Iso-Butane       | 0.8007        | 25.956                       | 0.016                       | 0.262                       |  |
| Butane           | 1.7748        | 57.718                       | 0.036                       | 0.559                       |  |
| Iso-Pentane      | 0.4051        | 16.157                       | 0.010                       | 0.148                       |  |
| Pentane          | 0.3448        | 13.779                       | 0.009                       | 0.125                       |  |
| Hexanes C6+      | 0.6652        | 34.013                       | 0.021                       | 0.290                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1311.370                     | 0.812                       | 7.994                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** King Eider 12 Fed Com 501H  
**Sta. No.:** 70230  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002550328

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/12/24  
 Date to Lab: 11/13/24  
 Date Analyzed: 11/19/24  
 Effective Date:

Sample Press. (PSIG): 20  
 Line Press. (PSIG): 20  
 Sample Temp. (F): 76  
 Fl. Gas Temp. (F): 76  
 Amb. Temp. (F): 68

Del. To:  
 Sampled By: EL  
 Cylinder No.: 835

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

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

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

Z Factor (Dry): 0.9956740  
 Z Factor (Act.): 0.9956740

Dry BTU w/ H2S: 1317.19

Sat BTU w/ H2S: 1294.67

As Del. BTU w/ H2S: 1317.19

**Dry BTU W/O H2S (Real): 1317.07**

**Sat. BTU W/O H2S (Real): 1294.55**

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

**AS DEL. BTU W/O H2S (Real): 1317.07**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.8148**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 7.994**

**GPM Propane+ (Real): 3.544**

**GPM IC5+ (Real): 0.563**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks: CP @ LAB 150 PSIG**

**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 540348  
 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         | 2.1912        | 0.000                        | 0.021                       |                             |  |
| Methane          | 78.5144       | 790.513                      | 0.435                       |                             |  |
| CO2              | 1.8720        | 0.000                        | 0.028                       |                             |  |
| Ethane           | 10.3330       | 182.291                      | 0.107                       | 2.757                       |  |
| H2S              | 0.0100        | 0.000                        | 0.000                       |                             |  |
| Propane          | 4.4266        | 111.029                      | 0.067                       | 1.217                       |  |
| Iso-Butane       | 0.5145        | 16.679                       | 0.010                       | 0.168                       |  |
| Butane           | 1.2809        | 41.656                       | 0.026                       | 0.403                       |  |
| Iso-Pentane      | 0.2621        | 10.454                       | 0.007                       | 0.096                       |  |
| Pentane          | 0.2468        | 9.863                        | 0.006                       | 0.089                       |  |
| Hexanes C6+      | 0.3485        | 17.819                       | 0.011                       | 0.152                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1180.303                     | 0.719                       | 4.882                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Tostada 7 State Com 502H  
**Sta. No.:** 70002  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002550706

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/14/24  
 Date to Lab: 11/14/24  
 Date Analyzed: 11/18/24  
 Effective Date:

Sample Press. (PSIG): 204  
 Line Press. (PSIG): 204  
 Sample Temp. (F): 69  
 Fl. Gas Temp. (F): 69  
 Amb. Temp. (F): 43

Del. To:  
 Sampled By: JL  
 Cylinder No.: 826

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

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

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

Z Factor (Dry): 0.9967047  
 Z Factor (Act.): 0.9967047

Dry BTU w/ H2S: 1184.27

Sat BTU w/ H2S: 1163.98

As Del. BTU w/ H2S: 1184.27

**Dry BTU W/O H2S (Real): 1184.21**

**Sat. BTU W/O H2S (Real): 1163.92**

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

**AS DEL. BTU W/O H2S (Real): 1184.21**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7213**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 4.882**

**GPM Propane+ (Real): 2.125**

**GPM IC5+ (Real): 0.337**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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**GAS ANALYSIS REPORT**

Analysis No.: 540347  
 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         | 2.1341        | 0.000                        | 0.021                       |                             |  |
| Methane          | 79.1070       | 796.480                      | 0.438                       |                             |  |
| CO2              | 2.2219        | 0.000                        | 0.034                       |                             |  |
| Ethane           | 9.4166        | 166.124                      | 0.098                       | 2.512                       |  |
| H2S              | 0.0025        | 0.000                        | 0.000                       |                             |  |
| Propane          | 4.3276        | 108.546                      | 0.066                       | 1.189                       |  |
| Iso-Butane       | 0.5407        | 17.528                       | 0.011                       | 0.176                       |  |
| Butane           | 1.2360        | 40.196                       | 0.025                       | 0.389                       |  |
| Iso-Pentane      | 0.2938        | 11.718                       | 0.007                       | 0.107                       |  |
| Pentane          | 0.2721        | 10.874                       | 0.007                       | 0.098                       |  |
| Hexanes C6+      | 0.4477        | 22.892                       | 0.014                       | 0.195                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1174.357                     | 0.720                       | 4.666                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Gordita 6 State Com #502H  
**Sta. No.:** 77006  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002550703

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/13/24  
 Date to Lab: 11/14/24  
 Date Analyzed: 11/18/24  
 Effective Date:

Sample Press. (PSIG): 195  
 Line Press. (PSIG): 195  
 Sample Temp. (F): 76  
 Fl. Gas Temp. (F): 76  
 Amb. Temp. (F): 59

Del. To:  
 Sampled By: RO  
 Cylinder No.: AGL-670

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

Field H2S (PPM): 25.0  
 Field H2S (Grains): 1.57

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

Z Factor (Dry): 0.9967091  
 Z Factor (Act.): 0.9967091

Dry BTU w/ H2S: 1178.25

Sat BTU w/ H2S: 1158.07

As Del. BTU w/ H2S: 1178.25

**Dry BTU W/O H2S (Real): 1178.23**

**Sat. BTU W/O H2S (Real): 1158.05**

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

**AS DEL. BTU W/O H2S (Real): 1178.23**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7225**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 4.666**

**GPM Propane+ (Real): 2.154**

**GPM IC5+ (Real): 0.400**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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**GAS ANALYSIS REPORT**

Analysis No.: 540346  
 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         | 3.2790        | 0.000                        | 0.032                       |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Methane          | 69.6549       | 701.312                      | 0.386                       |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| CO2              | 7.8856        | 0.000                        | 0.120                       |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Ethane           | 9.8595        | 173.937                      | 0.102                       | 2.632                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| H2S              | 0.3200        | 0.000                        | 0.004                       |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Propane          | 5.0654        | 127.052                      | 0.077                       | 1.393                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Iso-Butane       | 0.6344        | 20.565                       | 0.013                       | 0.207                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Butane           | 1.6536        | 53.777                       | 0.033                       | 0.520                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Iso-Pentane      | 0.4441        | 17.712                       | 0.011                       | 0.162                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Pentane          | 0.4534        | 18.119                       | 0.011                       | 0.164                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Hexanes C6+      | 0.7501        | 38.354                       | 0.024                       | 0.327                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Hydrogen         | N/A           |                              |                             |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Helium           | N/A           |                              |                             |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Oxygen           | N/A           |                              |                             |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| CO               | N/A           |                              |                             |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Totals           | 100.0000      | 1150.828                     | 0.813                       | 5.405                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                  |               |                              |                             |                             | <b>Producer:</b> Centennial<br><b>Well / Sta. Name:</b> ERIC CARTMAN 6 STATE COM 304H<br><b>Sta. No.:</b> N/L<br><b>Formation:</b><br><b>Field:</b> New Mexico<br><b>County:</b><br><b>API Number:</b> 3002552304<br><br><b>Spot / Composite:</b> SP<br>Date / Time On:<br>Date / Time Off: 11/13/24<br>Date to Lab: 11/14/24<br>Date Analyzed: 11/18/24<br>Effective Date:<br><br>Sample Press. (PSIG): 193<br>Line Press. (PSIG): 193<br>Sample Temp. (F): 113<br>Fl. Gas Temp. (F): 113<br>Amb. Temp. (F): 53<br><br>Del. To:<br>Sampled By: EL<br>Cylinder No.: 716 |

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

Field H2S (PPM): 3,200.0  
 Field H2S (Grains): 201.38

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

Z Factor (Dry): 0.9961653

Z Factor (Act.): 0.9961652

Dry BTU w/ H2S: 1157.30

Sat BTU w/ H2S: 1137.49

As Del. BTU w/ H2S: 1157.30

**Dry BTU W/O H2S (Real): 1155.26****Sat. BTU W/O H2S (Real): 1135.49****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1155.26***BTU Calc: Dry***Sp. Gravity (Real): 0.8158**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 5.405****GPM Propane+ (Real): 2.773****GPM IC5+ (Real): 0.653****Fld. Remarks:****Lab Remarks:**

GPA 2145 / 2172

**ARMSTRONG GAS LABS, INC.**

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**GAS ANALYSIS REPORT**

Analysis No.: 540345  
 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         | 2.2272        | 0.000                        | 0.022                       |                             |  |
| Methane          | 78.2058       | 787.406                      | 0.433                       |                             |  |
| CO2              | 0.9866        | 0.000                        | 0.015                       |                             |  |
| Ethane           | 10.7570       | 189.771                      | 0.112                       | 2.870                       |  |
| H2S              | 0.0010        | 0.000                        | 0.000                       |                             |  |
| Propane          | 4.9268        | 123.575                      | 0.075                       | 1.354                       |  |
| Iso-Butane       | 0.5951        | 19.291                       | 0.012                       | 0.194                       |  |
| Butane           | 1.3618        | 44.287                       | 0.027                       | 0.428                       |  |
| Iso-Pentane      | 0.2755        | 10.988                       | 0.007                       | 0.101                       |  |
| Pentane          | 0.2650        | 10.590                       | 0.007                       | 0.096                       |  |
| Hexanes C6+      | 0.3982        | 20.361                       | 0.013                       | 0.173                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1206.269                     | 0.722                       | 5.216                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Tostada 7 State Com 602H  
**Sta. No.:** T0602  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002549587

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/13/24  
 Date to Lab: 11/14/24  
 Date Analyzed: 11/18/24  
 Effective Date:

Sample Press. (PSIG): 193  
 Line Press. (PSIG): 193  
 Sample Temp. (F): 82  
 Fl. Gas Temp. (F): 82  
 Amb. Temp. (F): 81

Del. To:  
 Sampled By: RO  
 Cylinder No.: AGL-692

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

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

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

Z Factor (Dry): 0.9966159  
 Z Factor (Act.): 0.9966159

Dry BTU w/ H2S: 1210.37

Sat BTU w/ H2S: 1189.64

As Del. BTU w/ H2S: 1210.37

**Dry BTU W/O H2S (Real): 1210.36**

**Sat. BTU W/O H2S (Real): 1189.63**

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

**AS DEL. BTU W/O H2S (Real): 1210.36**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7241**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 5.216**

**GPM Propane+ (Real): 2.346**

**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.: 540344  
 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         | 3.3598        | 0.000                        | 0.032                       |                             |  |
| Methane          | 68.5724       | 690.413                      | 0.380                       |                             |  |
| CO2              | 9.1225        | 0.000                        | 0.139                       |                             |  |
| Ethane           | 9.8433        | 173.652                      | 0.102                       | 2.628                       |  |
| H2S              | 0.2800        | 0.000                        | 0.003                       |                             |  |
| Propane          | 5.0725        | 127.230                      | 0.077                       | 1.395                       |  |
| Iso-Butane       | 0.6156        | 19.956                       | 0.012                       | 0.201                       |  |
| Butane           | 1.6048        | 52.190                       | 0.032                       | 0.505                       |  |
| Iso-Pentane      | 0.4142        | 16.520                       | 0.010                       | 0.151                       |  |
| Pentane          | 0.4271        | 17.068                       | 0.011                       | 0.154                       |  |
| Hexanes C6+      | 0.6878        | 35.168                       | 0.022                       | 0.300                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1132.196                     | 0.821                       | 5.334                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** ERIC CARTMAN 6 STATE COM 301H  
**Sta. No.:** N/L  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002551986

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/13/24  
 Date to Lab: 11/14/24  
 Date Analyzed: 11/18/24  
 Effective Date:

Sample Press. (PSIG): 191  
 Line Press. (PSIG): 191  
 Sample Temp. (F): 98  
 Fl. Gas Temp. (F): 98  
 Amb. Temp. (F): 53

Del. To:  
 Sampled By: EL  
 Cylinder No.: 671

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

Field H2S (PPM): 2,800.0  
 Field H2S (Grains): 176.21

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

Z Factor (Dry): 0.9961700

Z Factor (Act.): 0.9961700

Dry BTU w/ H2S: 1138.33

Sat BTU w/ H2S: 1118.85

As Del. BTU w/ H2S: 1138.33

**Dry BTU W/O H2S (Real): 1136.55****Sat. BTU W/O H2S (Real): 1117.10****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1136.55***BTU Calc: Dry***Sp. Gravity (Real): 0.8241**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 5.334****GPM Propane+ (Real): 2.706****GPM IC5+ (Real): 0.605**

GPA 2145 / 2172

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

**ARMSTRONG GAS LABS, INC.**

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 (432) 943-8844 (FAX) 943-8855

**GAS ANALYSIS REPORT**

Analysis No.: 540343  
 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         | 2.3545        | 0.000                        | 0.023                       |                             |  |
| Methane          | 77.3235       | 778.523                      | 0.428                       |                             |  |
| CO2              | 1.1416        | 0.000                        | 0.017                       |                             |  |
| Ethane           | 11.0612       | 195.137                      | 0.115                       | 2.952                       |  |
| H2S              | 0.0100        | 0.000                        | 0.000                       |                             |  |
| Propane          | 5.2111        | 130.706                      | 0.079                       | 1.432                       |  |
| Iso-Butane       | 0.5969        | 19.350                       | 0.012                       | 0.195                       |  |
| Butane           | 1.3926        | 45.289                       | 0.028                       | 0.438                       |  |
| Iso-Pentane      | 0.2704        | 10.785                       | 0.007                       | 0.099                       |  |
| Pentane          | 0.2589        | 10.346                       | 0.006                       | 0.094                       |  |
| Hexanes C6+      | 0.3793        | 19.394                       | 0.012                       | 0.165                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1209.530                     | 0.728                       | 5.375                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Eric Cartman 6 State Com 603H  
**Sta. No.:** 68208  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002549778

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/13/24  
 Date to Lab: 11/14/24  
 Date Analyzed: 11/18/24  
 Effective Date:

Sample Press. (PSIG): 189  
 Line Press. (PSIG): 189  
 Sample Temp. (F): 81  
 Fl. Gas Temp. (F): 81  
 Amb. Temp. (F): 53

Del. To:  
 Sampled By: EL  
 Cylinder No.: 457

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

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

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

Z Factor (Dry): 0.9965717

Z Factor (Act.): 0.9965717

Dry BTU w/ H2S: 1213.75

Sat BTU w/ H2S: 1192.97

As Del. BTU w/ H2S: 1213.75

**Dry BTU W/O H2S (Real): 1213.69****Sat. BTU W/O H2S (Real): 1192.91****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1213.69***BTU Calc: Dry***Sp. Gravity (Real): 0.7302**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 5.375****GPM Propane+ (Real): 2.423****GPM IC5+ (Real): 0.358**

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.: 540342  
 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         | 2.1019        | 0.000                        | 0.020                       |                             |  |
| Methane          | 77.8671       | 783.996                      | 0.431                       |                             |  |
| CO2              | 1.0674        | 0.000                        | 0.016                       |                             |  |
| Ethane           | 10.7932       | 190.409                      | 0.112                       | 2.880                       |  |
| H2S              | 0.0020        | 0.000                        | 0.000                       |                             |  |
| Propane          | 5.0629        | 126.989                      | 0.077                       | 1.392                       |  |
| Iso-Butane       | 0.6305        | 20.439                       | 0.013                       | 0.206                       |  |
| Butane           | 1.4435        | 46.944                       | 0.029                       | 0.454                       |  |
| Iso-Pentane      | 0.2981        | 11.889                       | 0.007                       | 0.109                       |  |
| Pentane          | 0.2878        | 11.501                       | 0.007                       | 0.104                       |  |
| Hexanes C6+      | 0.4456        | 22.784                       | 0.014                       | 0.194                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1214.952                     | 0.728                       | 5.339                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Gordita 6 State Com 603H  
**Sta. No.:** 59517  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002549036

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/13/24  
 Date to Lab: 11/14/24  
 Date Analyzed: 11/18/24  
 Effective Date:

Sample Press. (PSIG): 188  
 Line Press. (PSIG): 188  
 Sample Temp. (F): 85  
 Fl. Gas Temp. (F): 85  
 Amb. Temp. (F): 87

Del. To:  
 Sampled By: RO  
 Cylinder No.: AGL-695

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

Field H2S (PPM): 20.0  
 Field H2S (Grains): 1.26

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

Z Factor (Dry): 0.9965493  
 Z Factor (Act.): 0.9965493

Dry BTU w/ H2S: 1219.17

Sat BTU w/ H2S: 1198.29

As Del. BTU w/ H2S: 1219.17

**Dry BTU W/O H2S (Real): 1219.16**

**Sat. BTU W/O H2S (Real): 1198.28**

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

**AS DEL. BTU W/O H2S (Real): 1219.16**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7298**

Field Gravity:  
 Lab Gravitometer:

**GPM Ethane+ (Real): 5.339**

**GPM Propane+ (Real): 2.459**

**GPM IC5+ (Real): 0.407**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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**GAS ANALYSIS REPORT**

Analysis No.: 540341  
 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         | 2.1581        | 0.000                        | 0.021                       |                             |  |
| Methane          | 79.7754       | 803.210                      | 0.442                       |                             |  |
| CO2              | 2.2268        | 0.000                        | 0.034                       |                             |  |
| Ethane           | 9.0677        | 159.969                      | 0.094                       | 2.419                       |  |
| H2S              | 0.0030        | 0.000                        | 0.000                       |                             |  |
| Propane          | 4.0371        | 101.260                      | 0.061                       | 1.110                       |  |
| Iso-Butane       | 0.4882        | 15.826                       | 0.010                       | 0.159                       |  |
| Butane           | 1.1338        | 36.872                       | 0.023                       | 0.357                       |  |
| Iso-Pentane      | 0.2968        | 11.838                       | 0.007                       | 0.108                       |  |
| Pentane          | 0.2876        | 11.493                       | 0.007                       | 0.104                       |  |
| Hexanes C6+      | 0.5255        | 26.870                       | 0.017                       | 0.229                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1167.336                     | 0.716                       | 4.486                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Gordita 6 State Com 501H  
**Sta. No.:** 59433  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002550702

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/13/24  
 Date to Lab: 11/14/24  
 Date Analyzed: 11/19/24  
 Effective Date:

Sample Press. (PSIG): 185  
 Line Press. (PSIG): 185  
 Sample Temp. (F): 74  
 Fl. Gas Temp. (F): 74  
 Amb. Temp. (F): 55

Del. To:  
 Sampled By: RO  
 Cylinder No.: AGL-422

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

Field H2S (PPM): 30.0  
 Field H2S (Grains): 1.89

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

Z Factor (Dry): 0.9967516  
 Z Factor (Act.): 0.9967516

Dry BTU w/ H2S: 1171.16

Sat BTU w/ H2S: 1151.10

As Del. BTU w/ H2S: 1171.16

**Dry BTU W/O H2S (Real): 1171.14**

**Sat. BTU W/O H2S (Real): 1151.08**

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

**AS DEL. BTU W/O H2S (Real): 1171.14**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7183**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 4.486**

**GPM Propane+ (Real): 2.067**

**GPM IC5+ (Real): 0.441**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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**GAS ANALYSIS REPORT**

Analysis No.: 540340  
 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         | 2.1774        | 0.000                        | 0.021                       |                             |  |
| Methane          | 78.1910       | 787.257                      | 0.433                       |                             |  |
| CO2              | 1.0660        | 0.000                        | 0.016                       |                             |  |
| Ethane           | 10.8369       | 191.180                      | 0.113                       | 2.891                       |  |
| H2S              | 0.0010        | 0.000                        | 0.000                       |                             |  |
| Propane          | 4.8760        | 122.301                      | 0.074                       | 1.340                       |  |
| Iso-Butane       | 0.5819        | 18.864                       | 0.012                       | 0.190                       |  |
| Butane           | 1.3279        | 43.184                       | 0.027                       | 0.418                       |  |
| Iso-Pentane      | 0.2743        | 10.940                       | 0.007                       | 0.100                       |  |
| Pentane          | 0.2678        | 10.702                       | 0.007                       | 0.097                       |  |
| Hexanes C6+      | 0.3998        | 20.442                       | 0.013                       | 0.174                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1204.871                     | 0.722                       | 5.210                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Tostada 7 State Com 601H  
**Sta. No.:** 59515  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002549586

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/14/24  
 Date to Lab: 11/14/24  
 Date Analyzed: 11/18/24  
 Effective Date:

Sample Press. (PSIG): 181  
 Line Press. (PSIG): 181  
 Sample Temp. (F): 74  
 Fl. Gas Temp. (F): 74  
 Amb. Temp. (F): 43

Del. To:  
 Sampled By: JL  
 Cylinder No.: 819

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

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

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

Z Factor (Dry): 0.9966188  
 Z Factor (Act.): 0.9966188

Dry BTU w/ H2S: 1208.96

Sat BTU w/ H2S: 1188.26

As Del. BTU w/ H2S: 1208.96

**Dry BTU W/O H2S (Real): 1208.96**

**Sat. BTU W/O H2S (Real): 1188.25**

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

**AS DEL. BTU W/O H2S (Real): 1208.96**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7240**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 5.210**

**GPM Propane+ (Real): 2.319**

**GPM IC5+ (Real): 0.371**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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**GAS ANALYSIS REPORT**

Analysis No.: 540339  
 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         | 4.0554        | 0.000                        | 0.039                       |                             |  |
| Methane          | 68.9794       | 694.511                      | 0.382                       |                             |  |
| CO2              | 6.9900        | 0.000                        | 0.106                       |                             |  |
| Ethane           | 10.5625       | 186.339                      | 0.110                       | 2.819                       |  |
| H2S              | 0.0003        | 0.000                        | 0.000                       |                             |  |
| Propane          | 5.6199        | 140.960                      | 0.086                       | 1.545                       |  |
| Iso-Butane       | 0.6919        | 22.429                       | 0.014                       | 0.226                       |  |
| Butane           | 1.6563        | 53.864                       | 0.033                       | 0.521                       |  |
| Iso-Pentane      | 0.3918        | 15.626                       | 0.010                       | 0.143                       |  |
| Pentane          | 0.4097        | 16.372                       | 0.010                       | 0.148                       |  |
| Hexanes C6+      | 0.6428        | 32.867                       | 0.021                       | 0.280                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1162.970                     | 0.811                       | 5.682                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Cheddar Fed Com 401H (FKA 701H)  
**Sta. No.:** 59525  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002546298

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/11/24  
 Date to Lab: 11/12/24  
 Date Analyzed: 11/18/24  
 Effective Date:

Sample Press. (PSIG): 155  
 Line Press. (PSIG): 155  
 Sample Temp. (F): 89  
 Fl. Gas Temp. (F): 89  
 Amb. Temp. (F): 53

Del. To:  
 Sampled By: JL  
 Cylinder No.: 739

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

Field H2S (PPM): 3.0  
 Field H2S (Grains): 0.19

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

Z Factor (Dry): 0.9961927  
 Z Factor (Act.): 0.9961927

Dry BTU w/ H2S: 1167.42

Sat BTU w/ H2S: 1147.44

As Del. BTU w/ H2S: 1167.42

**Dry BTU W/O H2S (Real): 1167.42**

**Sat. BTU W/O H2S (Real): 1147.44**

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

**AS DEL. BTU W/O H2S (Real): 1167.42**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.8133**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 5.682**

**GPM Propane+ (Real): 2.863**

**GPM IC5+ (Real): 0.571**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks: CP @ LAB 124 PSIG**

**ARMSTRONG GAS LABS, INC.**

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**GAS ANALYSIS REPORT**

Analysis No.: 540338  
 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         | 1.6410        | 0.000                        | 0.016                       |                             |  |
| Methane          | 70.8972       | 713.820                      | 0.393                       |                             |  |
| CO2              | 0.1266        | 0.000                        | 0.002                       |                             |  |
| Ethane           | 15.1826       | 267.845                      | 0.158                       | 4.055                       |  |
| H2S              | 0.0001        | 0.000                        | 0.000                       |                             |  |
| Propane          | 7.4473        | 186.795                      | 0.113                       | 2.049                       |  |
| Iso-Butane       | 0.8560        | 27.749                       | 0.017                       | 0.280                       |  |
| Butane           | 2.2101        | 71.874                       | 0.044                       | 0.696                       |  |
| Iso-Pentane      | 0.4414        | 17.605                       | 0.011                       | 0.161                       |  |
| Pentane          | 0.5036        | 20.125                       | 0.013                       | 0.182                       |  |
| Hexanes C6+      | 0.6941        | 35.490                       | 0.022                       | 0.302                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1341.304                     | 0.789                       | 7.725                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** CHEDDAR 3BS FEDERAL COM 1H  
**Sta. No.:** 2893  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002544692

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/11/24  
 Date to Lab: 11/12/24  
 Date Analyzed: 11/18/24  
 Effective Date:

Sample Press. (PSIG): 145  
 Line Press. (PSIG): 145  
 Sample Temp. (F): 79  
 Fl. Gas Temp. (F): 79  
 Amb. Temp. (F): 53

Del. To:  
 Sampled By: JL  
 Cylinder No.: 756

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

Field H2S (PPM): 1.0  
 Field H2S (Grains): 0.06

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

Z Factor (Dry): 0.9957190  
 Z Factor (Act.): 0.9957190

Dry BTU w/ H2S: 1347.07

Sat BTU w/ H2S: 1324.04

As Del. BTU w/ H2S: 1347.07

**Dry BTU W/O H2S (Real): 1347.07**

**Sat. BTU W/O H2S (Real): 1324.04**

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

**AS DEL. BTU W/O H2S (Real): 1347.07**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7920**

Field Gravity:  
 Lab Gravitometer:

**GPM Ethane+ (Real): 7.725**

**GPM Propane+ (Real): 3.670**

**GPM IC5+ (Real): 0.645**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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**GAS ANALYSIS REPORT**

Analysis No.: 344106  
 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         | 3.4499        | 0.000                        | 0.033                       |                             |  |
| Methane          | 70.9765       | 714.619                      | 0.393                       |                             |  |
| CO2              | 7.8913        | 0.000                        | 0.120                       |                             |  |
| Ethane           | 9.4266        | 166.300                      | 0.098                       | 2.516                       |  |
| H2S              | 0.2000        | 0.000                        | 0.002                       |                             |  |
| Propane          | 4.6170        | 115.805                      | 0.070                       | 1.269                       |  |
| Iso-Butane       | 0.5417        | 17.560                       | 0.011                       | 0.177                       |  |
| Butane           | 1.4364        | 46.713                       | 0.029                       | 0.452                       |  |
| Iso-Pentane      | 0.3924        | 15.650                       | 0.010                       | 0.143                       |  |
| Pentane          | 0.4045        | 16.164                       | 0.010                       | 0.146                       |  |
| Hexanes C6+      | 0.6637        | 33.936                       | 0.021                       | 0.289                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1126.748                     | 0.798                       | 4.992                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** ERIC CARTMAN 6 STATE COM 303H  
**Sta. No.:** N/L  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002552228

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/13/24  
 Date to Lab: 11/14/24  
 Date Analyzed: 11/19/24  
 Effective Date:

Sample Press. (PSIG): 211  
 Line Press. (PSIG): 211  
 Sample Temp. (F): 105  
 Fl. Gas Temp. (F): 105  
 Amb. Temp. (F): 53

Del. To:  
 Sampled By: EL  
 Cylinder No.: 814

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

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

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

Z Factor (Dry): 0.9963536

Z Factor (Act.): 0.9963536

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): 1130.87****Sat. BTU W/O H2S (Real): 1111.51****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1130.87***BTU Calc: Dry***Sp. Gravity (Real): 0.8004**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 4.992****GPM Propane+ (Real): 2.476****GPM IC5+ (Real): 0.578**

GPA 2145 / 2172

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

**ARMSTRONG GAS LABS, INC.**

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 (432) 943-8844 (FAX) 943-8855

**GAS ANALYSIS REPORT**

Analysis No.: 344105  
 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         | 2.3413        | 0.000                        | 0.023                       |                             |  |
| Methane          | 78.3656       | 789.015                      | 0.434                       |                             |  |
| CO2              | 1.3750        | 0.000                        | 0.021                       |                             |  |
| Ethane           | 10.5238       | 185.657                      | 0.109                       | 2.808                       |  |
| H2S              | 0.0100        | 0.000                        | 0.000                       |                             |  |
| Propane          | 4.8477        | 121.591                      | 0.074                       | 1.332                       |  |
| Iso-Butane       | 0.5093        | 16.510                       | 0.010                       | 0.166                       |  |
| Butane           | 1.1757        | 38.235                       | 0.024                       | 0.370                       |  |
| Iso-Pentane      | 0.2738        | 10.920                       | 0.007                       | 0.100                       |  |
| Pentane          | 0.2587        | 10.338                       | 0.006                       | 0.094                       |  |
| Hexanes C6+      | 0.3191        | 16.316                       | 0.010                       | 0.139                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1188.582                     | 0.718                       | 5.009                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Eric Cartman 6 State Com 604H  
**Sta. No.:** 67651  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002549779

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/13/24  
 Date to Lab: 11/14/24  
 Date Analyzed: 11/19/24  
 Effective Date:

Sample Press. (PSIG): 206  
 Line Press. (PSIG): 206  
 Sample Temp. (F): 78  
 Fl. Gas Temp. (F): 78  
 Amb. Temp. (F): 53

Del. To:  
 Sampled By: EL  
 Cylinder No.: 863

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

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

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

Z Factor (Dry): 0.9966956  
 Z Factor (Act.): 0.9966956

Dry BTU w/ H2S: 1192.59

Sat BTU w/ H2S: 1172.16

As Del. BTU w/ H2S: 1192.59

**Dry BTU W/O H2S (Real): 1192.52**

**Sat. BTU W/O H2S (Real): 1172.10**

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

**AS DEL. BTU W/O H2S (Real): 1192.52**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7202**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 5.009**

**GPM Propane+ (Real): 2.201**

**GPM IC5+ (Real): 0.333**

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.: 344104  
 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         | 2.2623        | 0.000                        | 0.022                       |                             |  |
| Methane          | 78.3760       | 789.120                      | 0.434                       |                             |  |
| CO2              | 1.1936        | 0.000                        | 0.018                       |                             |  |
| Ethane           | 10.7099       | 188.940                      | 0.111                       | 2.857                       |  |
| H2S              | 0.0100        | 0.000                        | 0.000                       |                             |  |
| Propane          | 4.8638        | 121.995                      | 0.074                       | 1.337                       |  |
| Iso-Butane       | 0.5354        | 17.356                       | 0.011                       | 0.175                       |  |
| Butane           | 1.2308        | 40.027                       | 0.025                       | 0.387                       |  |
| Iso-Pentane      | 0.2526        | 10.075                       | 0.006                       | 0.092                       |  |
| Pentane          | 0.2405        | 9.611                        | 0.006                       | 0.087                       |  |
| Hexanes C6+      | 0.3251        | 16.623                       | 0.010                       | 0.142                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1193.746                     | 0.718                       | 5.077                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Eric Cartman 6 State Com 602H  
**Sta. No.:** 68203  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002549777

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/13/24  
 Date to Lab: 11/14/24  
 Date Analyzed: 11/19/24  
 Effective Date:

Sample Press. (PSIG): 199  
 Line Press. (PSIG): 199  
 Sample Temp. (F): 73  
 Fl. Gas Temp. (F): 73  
 Amb. Temp. (F): 53

Del. To:  
 Sampled By: EL  
 Cylinder No.: 832

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

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

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

Z Factor (Dry): 0.9966817  
 Z Factor (Act.): 0.9966817

Dry BTU w/ H2S: 1197.78  
 Sat BTU w/ H2S: 1177.27  
 As Del. BTU w/ H2S: 1197.78

**Dry BTU W/O H2S (Real): 1197.72**

**Sat. BTU W/O H2S (Real): 1177.20**

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

**AS DEL. BTU W/O H2S (Real): 1197.72**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7198**

Field Gravity:  
 Lab Gravitometer:

**GPM Ethane+ (Real): 5.077**  
**GPM Propane+ (Real): 2.220**  
**GPM IC5+ (Real): 0.321**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 344103  
 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         | 2.1111        | 0.000                        | 0.020                       |                             |  |
| Methane          | 77.8653       | 783.978                      | 0.431                       |                             |  |
| CO2              | 1.1165        | 0.000                        | 0.017                       |                             |  |
| Ethane           | 10.9010       | 192.311                      | 0.113                       | 2.909                       |  |
| H2S              | 0.0005        | 0.000                        | 0.000                       |                             |  |
| Propane          | 5.1233        | 128.504                      | 0.078                       | 1.408                       |  |
| Iso-Butane       | 0.5899        | 19.123                       | 0.012                       | 0.193                       |  |
| Butane           | 1.3692        | 44.528                       | 0.027                       | 0.431                       |  |
| Iso-Pentane      | 0.2799        | 11.163                       | 0.007                       | 0.102                       |  |
| Pentane          | 0.2728        | 10.902                       | 0.007                       | 0.099                       |  |
| Hexanes C6+      | 0.3705        | 18.944                       | 0.012                       | 0.161                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1209.453                     | 0.725                       | 5.303                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Gordita 6 State Com 602H  
**Sta. No.:** 59535  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002549035

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/13/24  
 Date to Lab: 11/14/24  
 Date Analyzed: 11/19/24  
 Effective Date:

Sample Press. (PSIG): 194  
 Line Press. (PSIG): 194  
 Sample Temp. (F): 84  
 Fl. Gas Temp. (F): 84  
 Amb. Temp. (F): 86

Del. To:  
 Sampled By: RO  
 Cylinder No.: AGL-407

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

Field H2S (PPM): 5.0  
 Field H2S (Grains): 0.31

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

Z Factor (Dry): 0.9965858  
 Z Factor (Act.): 0.9965858

Dry BTU w/ H2S: 1213.60

Sat BTU w/ H2S: 1192.82

As Del. BTU w/ H2S: 1213.60

**Dry BTU W/O H2S (Real): 1213.60**

**Sat. BTU W/O H2S (Real): 1192.81**

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

**AS DEL. BTU W/O H2S (Real): 1213.60**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7271**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 5.303**

**GPM Propane+ (Real): 2.394**

**GPM IC5+ (Real): 0.362**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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**GAS ANALYSIS REPORT**

Analysis No.: 344102  
 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         | 2.1098        | 0.000                        | 0.020                       |                             |  |
| Methane          | 78.2508       | 787.859                      | 0.433                       |                             |  |
| CO2              | 2.0947        | 0.000                        | 0.032                       |                             |  |
| Ethane           | 9.9642        | 175.784                      | 0.103                       | 2.659                       |  |
| H2S              | 0.0040        | 0.000                        | 0.000                       |                             |  |
| Propane          | 4.7007        | 117.904                      | 0.072                       | 1.292                       |  |
| Iso-Butane       | 0.5687        | 18.436                       | 0.011                       | 0.186                       |  |
| Butane           | 1.3317        | 43.308                       | 0.027                       | 0.419                       |  |
| Iso-Pentane      | 0.3130        | 12.484                       | 0.008                       | 0.114                       |  |
| Pentane          | 0.2839        | 11.345                       | 0.007                       | 0.103                       |  |
| Hexanes C6+      | 0.3785        | 19.353                       | 0.012                       | 0.165                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1186.474                     | 0.726                       | 4.938                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Gordita 6 State Com #503H  
**Sta. No.:** 70004  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002550704

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/13/24  
 Date to Lab: 11/14/24  
 Date Analyzed: 11/19/24  
 Effective Date:

Sample Press. (PSIG): 191  
 Line Press. (PSIG): 191  
 Sample Temp. (F): 80  
 Fl. Gas Temp. (F): 80  
 Amb. Temp. (F): 74

Del. To:  
 Sampled By: RO  
 Cylinder No.: AGL-415

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

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

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

Z Factor (Dry): 0.9966426  
 Z Factor (Act.): 0.9966426

Dry BTU w/ H2S: 1190.50  
 Sat BTU w/ H2S: 1170.10  
 As Del. BTU w/ H2S: 1190.50

**Dry BTU W/O H2S (Real): 1190.47**  
**Sat. BTU W/O H2S (Real): 1170.08**  
**H2O (# / mmcf): 0.0**  
**AS DEL. BTU W/O H2S (Real): 1190.47**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7281**  
 Field Gravity:  
 Lab Gravitometer:

**GPM Ethane+ (Real): 4.938**  
**GPM Propane+ (Real): 2.279**  
**GPM IC5+ (Real): 0.382**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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 Monahans, Texas 79756  
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**GAS ANALYSIS REPORT**

Analysis No.: 344101  
 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         | 2.0033        | 0.000                        | 0.019                       |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Methane          | 74.4305       | 749.395                      | 0.412                       |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| CO2              | 3.3734        | 0.000                        | 0.051                       |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Ethane           | 10.8469       | 191.357                      | 0.113                       | 2.895                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| H2S              | 0.0200        | 0.000                        | 0.000                       |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Propane          | 5.5649        | 139.580                      | 0.085                       | 1.530                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Iso-Butane       | 0.6896        | 22.355                       | 0.014                       | 0.225                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Butane           | 1.6218        | 52.742                       | 0.033                       | 0.510                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Iso-Pentane      | 0.4077        | 16.261                       | 0.010                       | 0.149                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Pentane          | 0.3785        | 15.125                       | 0.009                       | 0.137                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Hexanes C6+      | 0.6634        | 33.921                       | 0.021                       | 0.289                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Hydrogen         | N/A           |                              |                             |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Helium           | N/A           |                              |                             |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Oxygen           | N/A           |                              |                             |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| CO               | N/A           |                              |                             |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Totals           | 100.0000      | 1220.736                     | 0.768                       | 5.735                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                  |               |                              |                             |                             | <b>Producer: Centennial</b><br><b>Well / Sta. Name: ERIC CARTMAN 6 STATE COM 502H</b><br><b>Sta. No.: N/L</b><br><b>Formation:</b><br><b>Field: New Mexico</b><br><b>County:</b><br><b>API Number: 3002550933</b><br><br><b>Spot / Composite: SP</b><br>Date / Time On:<br>Date / Time Off: 11/13/24<br>Date to Lab: 11/13/24<br>Date Analyzed: 11/19/24<br>Effective Date:<br><br>Sample Press. (PSIG): 171<br>Line Press. (PSIG): 171<br>Sample Temp. (F): 97<br>Fl. Gas Temp. (F): 97<br>Amb. Temp. (F): 56<br><br>Del. To:<br>Sampled By: JL<br>Cylinder No.: 741 |

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

Field H2S (PPM): 200.0

Field H2S (Grains): 12.59

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

Z Factor (Dry): 0.9962489

Z Factor (Act.): 0.9962489

Dry BTU w/ H2S: 1225.46

Sat BTU w/ H2S: 1204.49

As Del. BTU w/ H2S: 1225.46

**Dry BTU W/O H2S (Real): 1225.33****Sat. BTU W/O H2S (Real): 1204.36****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1225.33***BTU Calc: Dry***Sp. Gravity (Real): 0.7704**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 5.735****GPM Propane+ (Real): 2.840****GPM IC5+ (Real): 0.575**

GPA 2145 / 2172

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

**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 344100  
 Customer: Centennial

| <u>Component</u> | <u>Mol. %</u> | (Ideal)<br><u>BTU</u> | (Ideal)<br><u>SG</u> | (Real)<br><u>GPM</u> |  |
|------------------|---------------|-----------------------|----------------------|----------------------|--|
| Nitrogen         | 2.8058        | 0.000                 | 0.027                |                      |  |
| Methane          | 74.3167       | 748.249               | 0.412                |                      |  |
| CO2              | 0.7007        | 0.000                 | 0.011                |                      |  |
| Ethane           | 12.1505       | 214.354               | 0.126                | 3.243                |  |
| H2S              | 0.0000        | 0.000                 | 0.000                |                      |  |
| Propane          | 6.1301        | 153.757               | 0.093                | 1.686                |  |
| Iso-Butane       | 0.7098        | 23.010                | 0.014                | 0.232                |  |
| Butane           | 1.7729        | 57.656                | 0.036                | 0.558                |  |
| Iso-Pentane      | 0.3806        | 15.180                | 0.009                | 0.139                |  |
| Pentane          | 0.4007        | 16.013                | 0.010                | 0.145                |  |
| Hexanes C6+      | 0.6322        | 32.325                | 0.020                | 0.275                |  |
| Hydrogen         | N/A           |                       |                      |                      |  |
| Helium           | N/A           |                       |                      |                      |  |
| Oxygen           | N/A           |                       |                      |                      |  |
| CO               | N/A           |                       |                      |                      |  |
| Totals           | 100.0000      | 1260.544              | 0.759                | 6.278                |  |

**Producer:** Centennial  
**Well / Sta. Name:** Cheddar Fed Com 501H  
**Sta. No.:** N/L  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002544861

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/11/24  
 Date to Lab: 11/12/24  
 Date Analyzed: 11/19/24  
 Effective Date:

Sample Press. (PSIG): 169  
 Line Press. (PSIG): 169  
 Sample Temp. (F): 89  
 Fl. Gas Temp. (F): 89  
 Amb. Temp. (F): 53

Del. To:  
 Sampled By: JL  
 Cylinder No.: 468

**Field H2O (#/mm):****Field H2S (PPM):** 0.0

Field H2S (Grains): 0.0

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

Z Factor (Dry): 0.9962238

Z Factor (Act.): 0.9962238

Dry BTU w/ H2S: 1265.32

Sat BTU w/ H2S: 1243.67

As Del. BTU w/ H2S: 1265.32

**Dry BTU W/O H2S (Real):** 1265.32**Sat. BTU W/O H2S (Real):** 1243.67**H2O (# / mmcf):** 0.0**AS DEL. BTU W/O H2S (Real):** 1265.32*BTU Calc: Dry***Sp. Gravity (Real):** 0.7611

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real):** 6.278**GPM Propane+ (Real):** 3.035**GPM IC5+ (Real):** 0.559

GPA 2145 / 2172

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

**ARMSTRONG GAS LABS, INC.**

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 (432) 943-8844 (FAX) 943-8855

**GAS ANALYSIS REPORT**

Analysis No.: 344099  
 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         | 2.0519        | 0.000                        | 0.020                       |                             |  |
| Methane          | 75.1170       | 756.307                      | 0.416                       |                             |  |
| CO2              | 0.1318        | 0.000                        | 0.002                       |                             |  |
| Ethane           | 12.7338       | 224.645                      | 0.132                       | 3.399                       |  |
| H2S              | 0.0000        | 0.000                        | 0.000                       |                             |  |
| Propane          | 6.1073        | 153.185                      | 0.093                       | 1.679                       |  |
| Iso-Butane       | 0.6772        | 21.953                       | 0.014                       | 0.221                       |  |
| Butane           | 1.8003        | 58.547                       | 0.036                       | 0.566                       |  |
| Iso-Pentane      | 0.3703        | 14.769                       | 0.009                       | 0.135                       |  |
| Pentane          | 0.4277        | 17.092                       | 0.011                       | 0.155                       |  |
| Hexanes C6+      | 0.5827        | 29.794                       | 0.019                       | 0.254                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1276.292                     | 0.751                       | 6.409                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Cheddar Fed Com 651H (FKA 602H)  
**Sta. No.:** 48112  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002546297

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/11/24  
 Date to Lab: 11/12/24  
 Date Analyzed: 11/19/24  
 Effective Date:

Sample Press. (PSIG): 166  
 Line Press. (PSIG): 166  
 Sample Temp. (F): 88  
 Fl. Gas Temp. (F): 88  
 Amb. Temp. (F): 53

Del. To:  
 Sampled By: JL  
 Cylinder No.: 736

**Field H2O (#/mm):****Field H2S (PPM):** 0.0

Field H2S (Grains): 0.0

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

Z Factor (Dry): 0.9962023

Z Factor (Act.): 0.9962023

Dry BTU w/ H2S: 1281.16

Sat BTU w/ H2S: 1259.23

As Del. BTU w/ H2S: 1281.16

**Dry BTU W/O H2S (Real):** 1281.16**Sat. BTU W/O H2S (Real):** 1259.23**H2O (# / mmcf):** 0.0**AS DEL. BTU W/O H2S (Real):** 1281.16*BTU Calc: Dry***Sp. Gravity (Real):** 0.7540

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real):** 6.409**GPM Propane+ (Real):** 3.010**GPM IC5+ (Real):** 0.544

GPA 2145 / 2172

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

**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 344098  
 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         | 3.4146        | 0.000                        | 0.033                       |                             |  |
| Methane          | 70.1139       | 705.934                      | 0.388                       |                             |  |
| CO2              | 7.8815        | 0.000                        | 0.120                       |                             |  |
| Ethane           | 9.6691        | 170.578                      | 0.100                       | 2.581                       |  |
| H2S              | 0.2400        | 0.000                        | 0.003                       |                             |  |
| Propane          | 4.9413        | 123.939                      | 0.075                       | 1.359                       |  |
| Iso-Butane       | 0.5898        | 19.120                       | 0.012                       | 0.193                       |  |
| Butane           | 1.5739        | 51.185                       | 0.032                       | 0.495                       |  |
| Iso-Pentane      | 0.4263        | 17.002                       | 0.011                       | 0.156                       |  |
| Pentane          | 0.4394        | 17.559                       | 0.011                       | 0.159                       |  |
| Hexanes C6+      | 0.7102        | 36.314                       | 0.023                       | 0.309                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1141.631                     | 0.807                       | 5.252                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** ERIC CARTMAN 6 STATE COM 302H  
**Sta. No.:** N/L  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002551987

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/13/24  
 Date to Lab: 11/14/24  
 Date Analyzed: 11/19/24  
 Effective Date:

Sample Press. (PSIG): 146  
 Line Press. (PSIG): 146  
 Sample Temp. (F): 102  
 Fl. Gas Temp. (F): 102  
 Amb. Temp. (F): 53

Del. To:  
 Sampled By: EL  
 Cylinder No.: 151

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

Field H2S (PPM): 2,400.0  
 Field H2S (Grains): 151.04

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

Z Factor (Dry): 0.9962404

Z Factor (Act.): 0.9962404

Dry BTU w/ H2S: 1147.47

Sat BTU w/ H2S: 1127.83

As Del. BTU w/ H2S: 1147.47

**Dry BTU W/O H2S (Real): 1145.94****Sat. BTU W/O H2S (Real): 1126.33****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1145.94***BTU Calc: Dry***Sp. Gravity (Real): 0.8101**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 5.252****GPM Propane+ (Real): 2.671****GPM IC5+ (Real): 0.624**

GPA 2145 / 2172

**Fld. Remarks:****Lab Remarks: CP @ LAB 180 PSIG**

**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 344097  
 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         | 3.3781        | 0.000                        | 0.033                       |                             |  |
| Methane          | 70.4406       | 709.223                      | 0.390                       |                             |  |
| CO2              | 0.5873        | 0.000                        | 0.009                       |                             |  |
| Ethane           | 13.3113       | 234.833                      | 0.138                       | 3.555                       |  |
| H2S              | 0.0003        | 0.000                        | 0.000                       |                             |  |
| Propane          | 7.3053        | 183.233                      | 0.111                       | 2.010                       |  |
| Iso-Butane       | 0.8528        | 27.645                       | 0.017                       | 0.279                       |  |
| Butane           | 2.1612        | 70.284                       | 0.043                       | 0.680                       |  |
| Iso-Pentane      | 0.5260        | 20.979                       | 0.013                       | 0.192                       |  |
| Pentane          | 0.4948        | 19.773                       | 0.012                       | 0.179                       |  |
| Hexanes C6+      | 0.9423        | 48.181                       | 0.030                       | 0.411                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1314.152                     | 0.797                       | 7.306                       |  |

|                          |                                  |
|--------------------------|----------------------------------|
| <b>Producer:</b>         | <b>Centennial</b>                |
| <b>Well / Sta. Name:</b> | <b>WOODY 22 FEDERAL COM 502H</b> |
| <b>Sta. No.:</b>         | <b>230599648</b>                 |
| <b>Formation:</b>        |                                  |
| <b>Field:</b>            | <b>New Mexico</b>                |
| <b>County:</b>           |                                  |
| <b>API Number:</b>       | <b>3002551395</b>                |
| <b>Spot / Composite:</b> | <b>SP</b>                        |
| Date / Time On:          |                                  |
| Date / Time Off:         | 11/11/24                         |
| Date to Lab:             | 11/12/24                         |
| Date Analyzed:           | 11/19/24                         |
| Effective Date:          |                                  |
| Sample Press. (PSIG):    | 107                              |
| Line Press. (PSIG):      | 107                              |
| Sample Temp. (F):        | 93                               |
| Fl. Gas Temp. (F):       | 93                               |
| Amb. Temp. (F):          | 64                               |
| Del. To:                 |                                  |
| Sampled By:              | RO                               |
| Cylinder No.:            | AGL-843                          |

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

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

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

Z Factor (Dry): 0.9957926

Z Factor (Act.): 0.9957926

Dry BTU w/ H2S: 1319.71

Sat BTU w/ H2S: 1297.14

As Del. BTU w/ H2S: 1319.71

**Dry BTU W/O H2S (Real): 1319.71****Sat. BTU W/O H2S (Real): 1297.14****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1319.70***BTU Calc: Dry***Sp. Gravity (Real): 0.8005**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 7.306****GPM Propane+ (Real): 3.751****GPM IC5+ (Real): 0.782**

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.: 142277  
 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         | 2.3179        | 0.000                        | 0.022                       |                             |  |
| Methane          | 76.6370       | 771.611                      | 0.424                       |                             |  |
| CO2              | 0.3607        | 0.000                        | 0.005                       |                             |  |
| Ethane           | 11.5162       | 203.164                      | 0.120                       | 3.074                       |  |
| H2S              | 0.0010        | 0.000                        | 0.000                       |                             |  |
| Propane          | 5.3803        | 134.950                      | 0.082                       | 1.479                       |  |
| Iso-Butane       | 0.6752        | 21.888                       | 0.014                       | 0.221                       |  |
| Butane           | 1.7543        | 57.051                       | 0.035                       | 0.552                       |  |
| Iso-Pentane      | 0.4029        | 16.069                       | 0.010                       | 0.147                       |  |
| Pentane          | 0.4049        | 16.180                       | 0.010                       | 0.146                       |  |
| Hexanes C6+      | 0.5496        | 28.102                       | 0.018                       | 0.239                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1249.016                     | 0.740                       | 5.858                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Chorizo 12 State Com 601H  
**Sta. No.:** 9796  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002545353

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/18/24  
 Date to Lab: 11/13/24  
 Date Analyzed: 11/19/24  
 Effective Date:

Sample Press. (PSIG): 152  
 Line Press. (PSIG): 152  
 Sample Temp. (F): 83  
 Fl. Gas Temp. (F): 83  
 Amb. Temp. (F): 62

Del. To:  
 Sampled By: IF  
 Cylinder No.: 818

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

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

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

Z Factor (Dry): 0.9963680  
 Z Factor (Act.): 0.9963680

Dry BTU w/ H2S: 1253.58

Sat BTU w/ H2S: 1232.12

As Del. BTU w/ H2S: 1253.58

**Dry BTU W/O H2S (Real): 1253.57**

**Sat. BTU W/O H2S (Real): 1232.11**

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

**AS DEL. BTU W/O H2S (Real): 1253.57**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7428**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 5.858**

**GPM Propane+ (Real): 2.784**

**GPM IC5+ (Real): 0.532**

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.: 142276  
 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         | 1.4635        | 0.000                        | 0.014                       |                             |  |
| Methane          | 73.7364       | 742.407                      | 0.408                       |                             |  |
| CO2              | 6.3480        | 0.000                        | 0.096                       |                             |  |
| Ethane           | 9.7240        | 171.547                      | 0.101                       | 2.595                       |  |
| H2S              | 0.0005        | 0.000                        | 0.000                       |                             |  |
| Propane          | 5.1321        | 128.725                      | 0.078                       | 1.411                       |  |
| Iso-Butane       | 0.7267        | 23.558                       | 0.015                       | 0.237                       |  |
| Butane           | 1.6118        | 52.417                       | 0.032                       | 0.507                       |  |
| Iso-Pentane      | 0.4050        | 16.153                       | 0.010                       | 0.148                       |  |
| Pentane          | 0.3659        | 14.622                       | 0.009                       | 0.132                       |  |
| Hexanes C6+      | 0.4861        | 24.855                       | 0.016                       | 0.212                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1174.283                     | 0.780                       | 5.242                       |  |

**Producer:**  
**Well / Sta. Name:** CATTLEMAN FED COM CHECK METER  
**Sta. No.:** Sales  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** N/L

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/09/24  
 Date to Lab: 11/13/24  
 Date Analyzed: 11/19/24  
 Effective Date:

Sample Press. (PSIG): 149  
 Line Press. (PSIG): 149  
 Sample Temp. (F): 70  
 Fl. Gas Temp. (F): 70  
 Amb. Temp. (F): 29

Del. To:  
 Sampled By: JL  
 Cylinder No.: 717

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

Field H2S (PPM): 5.0  
 Field H2S (Grains): 0.31

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

Z Factor (Dry): 0.9962943  
 Z Factor (Act.): 0.9962943

Dry BTU w/ H2S: 1178.65

Sat BTU w/ H2S: 1158.48

As Del. BTU w/ H2S: 1178.65

**Dry BTU W/O H2S (Real): 1178.65**

**Sat. BTU W/O H2S (Real): 1158.48**

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

**AS DEL. BTU W/O H2S (Real): 1178.65**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7825**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 5.242**

**GPM Propane+ (Real): 2.647**

**GPM IC5+ (Real): 0.492**

GPA 2145 / 2172

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

**Lab Remarks: CP @ LAB 168 PSIG**

**ARMSTRONG GAS LABS, INC.**

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**GAS ANALYSIS REPORT**

Analysis No.: 142275  
 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         | 2.8504        | 0.000                        | 0.028                       |                             |  |
| Methane          | 74.5873       | 750.974                      | 0.413                       |                             |  |
| CO2              | 0.4781        | 0.000                        | 0.007                       |                             |  |
| Ethane           | 11.8145       | 208.427                      | 0.123                       | 3.154                       |  |
| H2S              | 0.0000        | 0.000                        | 0.000                       |                             |  |
| Propane          | 6.0182        | 150.950                      | 0.092                       | 1.655                       |  |
| Iso-Butane       | 0.7362        | 23.866                       | 0.015                       | 0.240                       |  |
| Butane           | 1.8963        | 61.669                       | 0.038                       | 0.597                       |  |
| Iso-Pentane      | 0.4329        | 17.266                       | 0.011                       | 0.158                       |  |
| Pentane          | 0.4670        | 18.662                       | 0.012                       | 0.169                       |  |
| Hexanes C6+      | 0.7191        | 36.769                       | 0.023                       | 0.313                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1268.582                     | 0.761                       | 6.286                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** Cheddar Fed Com 502H  
**Sta. No.:** 48118  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002549737

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/11/24  
 Date to Lab: 11/12/24  
 Date Analyzed: 11/19/24  
 Effective Date:

Sample Press. (PSIG): 147  
 Line Press. (PSIG): 147  
 Sample Temp. (F): 93  
 Fl. Gas Temp. (F): 93  
 Amb. Temp. (F): 53

Del. To:  
 Sampled By: JL  
 Cylinder No.: 662

**Field H2O (#/mm):****Field H2S (PPM):** 0.0

Field H2S (Grains): 0.0

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

Z Factor (Dry): 0.9961832

Z Factor (Act.): 0.9961832

Dry BTU w/ H2S: 1273.44

Sat BTU w/ H2S: 1251.65

As Del. BTU w/ H2S: 1273.44

**Dry BTU W/O H2S (Real):** 1273.44**Sat. BTU W/O H2S (Real):** 1251.65**H2O (# / mmcf):** 0.0**AS DEL. BTU W/O H2S (Real):** 1273.44*BTU Calc: Dry***Sp. Gravity (Real):** 0.7633

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real):** 6.286**GPM Propane+ (Real):** 3.132**GPM IC5+ (Real):** 0.640

GPA 2145 / 2172

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

**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 142274  
 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         | 3.7174        | 0.000                        | 0.036                       |                             |  |
| Methane          | 73.9259       | 744.314                      | 0.409                       |                             |  |
| CO2              | 0.5170        | 0.000                        | 0.008                       |                             |  |
| Ethane           | 12.0287       | 212.206                      | 0.125                       | 3.210                       |  |
| H2S              | 0.0060        | 0.000                        | 0.000                       |                             |  |
| Propane          | 6.0675        | 152.187                      | 0.092                       | 1.668                       |  |
| Iso-Butane       | 0.6435        | 20.860                       | 0.013                       | 0.210                       |  |
| Butane           | 1.7177        | 55.861                       | 0.034                       | 0.540                       |  |
| Iso-Pentane      | 0.3885        | 15.495                       | 0.010                       | 0.142                       |  |
| Pentane          | 0.3975        | 15.885                       | 0.010                       | 0.144                       |  |
| Hexanes C6+      | 0.5903        | 30.183                       | 0.019                       | 0.257                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1246.991                     | 0.757                       | 6.171                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** WOODY 22 FEDERAL COM 501H  
**Sta. No.:** 230599654  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002551394

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/12/24  
 Date to Lab: 11/12/24  
 Date Analyzed: 11/19/24  
 Effective Date:

Sample Press. (PSIG): 110  
 Line Press. (PSIG): 110  
 Sample Temp. (F): 86  
 Fl. Gas Temp. (F): 86  
 Amb. Temp. (F): 67

Del. To:  
 Sampled By: RO  
 Cylinder No.: AGL-852

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

Field H2S (PPM): 60.0  
 Field H2S (Grains): 3.78

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

Z Factor (Dry): 0.9963075  
 Z Factor (Act.): 0.9963075

Dry BTU w/ H2S: 1251.65

Sat BTU w/ H2S: 1230.23

As Del. BTU w/ H2S: 1251.65

**Dry BTU W/O H2S (Real): 1251.61**

**Sat. BTU W/O H2S (Real): 1230.19**

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

**AS DEL. BTU W/O H2S (Real): 1251.61**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7591**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 6.171**

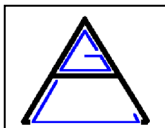
**GPM Propane+ (Real): 2.961**

**GPM IC5+ (Real): 0.543**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 142273  
 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         | 3.0206        | 0.000                        | 0.029                       |                             |  |
| Methane          | 69.2249       | 696.983                      | 0.383                       |                             |  |
| CO2              | 0.9543        | 0.000                        | 0.015                       |                             |  |
| Ethane           | 13.6603       | 240.990                      | 0.142                       | 3.649                       |  |
| H2S              | 0.0020        | 0.000                        | 0.000                       |                             |  |
| Propane          | 7.6875        | 192.820                      | 0.117                       | 2.115                       |  |
| Iso-Butane       | 0.9432        | 30.576                       | 0.019                       | 0.308                       |  |
| Butane           | 2.3335        | 75.887                       | 0.047                       | 0.735                       |  |
| Iso-Pentane      | 0.5866        | 23.396                       | 0.015                       | 0.214                       |  |
| Pentane          | 0.5444        | 21.755                       | 0.014                       | 0.197                       |  |
| Hexanes C6+      | 1.0427        | 53.315                       | 0.034                       | 0.454                       |  |
| Hydrogen         | N/A           |                              |                             |                             |  |
| Helium           | N/A           |                              |                             |                             |  |
| Oxygen           | N/A           |                              |                             |                             |  |
| CO               | N/A           |                              |                             |                             |  |
| Totals           | 100.0000      | 1335.722                     | 0.814                       | 7.672                       |  |

**Producer:** Centennial  
**Well / Sta. Name:** WOODY 22 FEDERAL COM 504H  
**Sta. No.:** 231105838  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002551397

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/11/24  
 Date to Lab: 11/12/24  
 Date Analyzed: 11/19/24  
 Effective Date:

Sample Press. (PSIG): 105  
 Line Press. (PSIG): 105  
 Sample Temp. (F): 94  
 Fl. Gas Temp. (F): 94  
 Amb. Temp. (F): 74

Del. To:  
 Sampled By: RO  
 Cylinder No.: AGL-790

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

Field H2S (PPM): 20.0  
 Field H2S (Grains): 1.26

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

Z Factor (Dry): 0.9955899  
 Z Factor (Act.): 0.9955899

Dry BTU w/ H2S: 1341.65  
 Sat BTU w/ H2S: 1318.72  
 As Del. BTU w/ H2S: 1341.65

**Dry BTU W/O H2S (Real): 1341.64**

**Sat. BTU W/O H2S (Real): 1318.70**

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

**AS DEL. BTU W/O H2S (Real): 1341.64**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.8168**

Field Gravity:  
 Lab Gravitometer:

**GPM Ethane+ (Real): 7.672**  
**GPM Propane+ (Real): 4.023**  
**GPM IC5+ (Real): 0.865**

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.

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

DEFINITIONS

Action 495632

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>495632                               |
|                                                                                                         | 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> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 495632

**QUESTIONS**

|                                                                                                     |                                                        |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>Permian Resources Operating, LLC<br>300 N. Marienfeld St Ste 1000<br>Midland, TX 79701 | OGRID:<br>372165                                       |
|                                                                                                     | Action Number:<br>495632                               |
|                                                                                                     | 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                                                                                                                                                                                 | [fAPP2220946441] Chorizo 36 CTB 1 |

|                                                                                                                                                                                                                                                                                            |                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <b>Determination of Reporting Requirements</b><br><i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>                                                                                               |                                                   |
| Was this vent or flare caused by an emergency or malfunction                                                                                                                                                                                                                               | Yes                                               |
| Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event                                                                                                                                                                                 | 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                                                                                                                                           | 73            |
| Nitrogen (N2) percentage, if greater than one percent                                                                                                              | 3             |
| Hydrogen Sulfide (H2S) PPM, rounded up                                                                                                                             | 0             |
| Carbon Dioxide (CO2) percentage, if greater than one percent                                                                                                       | 6             |
| Oxygen (O2) percentage, if greater than one percent                                                                                                                | 0             |
| <i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>                               |               |
| Methane (CH4) percentage quality requirement                                                                                                                       | Not answered. |
| Nitrogen (N2) percentage quality requirement                                                                                                                       | Not answered. |
| Hydrogen Sulfide (H2S) PPM quality requirement                                                                                                                     | Not answered. |
| Carbon Dioxide (CO2) percentage quality requirement                                                                                                                | Not answered. |
| Oxygen (O2) percentage quality requirement                                                                                                                         | Not answered. |

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
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QUESTIONS, Page 2

Action 495632

**QUESTIONS (continued)**

|                                                                                                     |                                                        |
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|                                                                                                     | 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 | 08/01/2025 |
| Time vent or flare was discovered or commenced | 12:00 AM   |
| Time vent or flare was terminated              | 11:00 PM   |
| Cumulative hours during this event             | 23         |

| Measured or Estimated Volume of Vented or Flared Natural Gas              |                                                                                                                                  |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Natural Gas Vented (Mcf) Details                                          | Not answered.                                                                                                                    |
| Natural Gas Flared (Mcf) Details                                          | Cause: Midstream Emergency Maintenance   Tank (Any)   Natural Gas Flared   Released: 188 Mcf   Recovered: 0 Mcf   Lost: 188 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                                                      | VRUs dripping on high discharge from northwind back up                                   |
| 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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ACKNOWLEDGMENTS

Action 495632

**ACKNOWLEDGMENTS**

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|                                                                                                     | Action Number:<br>495632                               |
|                                                                                                     | 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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CONDITIONS

Action 495632

CONDITIONS

|                                                                                                     |                                                        |
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|                                                                                                     | Action Number:<br>495632                               |
|                                                                                                     | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

CONDITIONS

| Created By | Condition                                                                                                                                                                          | Condition Date |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| jdoolingpr | 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. | 8/13/2025      |