

**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 540421  
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	3.7370	0.000	0.036		<b>Producer: Centennial</b> <b>Well / Sta. Name: CHIMICHANGAS 12 STATE 302H</b> <b>Sta. No.: N/L</b> <b>Formation:</b> <b>Field: New Mexico</b> <b>County:</b> <b>API Number: 3002552449</b>  <b>Spot / Composite: SP</b> Date / Time On: Date / Time Off: 11/18/24 Date to Lab: 11/19/24 Date Analyzed: 11/25/24 Effective Date:  Sample Press. (PSIG): 182 Line Press. (PSIG): 182 Sample Temp. (F): 110 Fl. Gas Temp. (F): 110 Amb. Temp. (F): 51  Del. To: Sampled By: JT Cylinder No.: 851
Methane	70.4550	709.368	0.390		
CO2	7.6116	0.000	0.116		
Ethane	9.3379	164.736	0.097	2.492	
H2S	0.0900	0.000	0.001		
Propane	4.9602	124.413	0.076	1.364	
Iso-Butane	0.6180	20.034	0.012	0.202	
Butane	1.6266	52.898	0.033	0.512	
Iso-Pentane	0.4303	17.162	0.011	0.157	
Pentane	0.4527	18.091	0.011	0.164	
Hexanes C6+	0.6807	34.805	0.022	0.297	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
<b>Totals</b>	<b>100.0000</b>	<b>1141.507</b>	<b>0.805</b>	<b>5.188</b>	

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

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

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

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

Dry BTU w/ H2S: 1146.34
Sat BTU w/ H2S: 1126.72
As Del. BTU w/ H2S: 1146.34

**Dry BTU W/O H2S (Real): 1145.77**  
**Sat. BTU W/O H2S (Real): 1126.16**  
**H2O (# / mmcf): 0.0**  
**AS DEL. BTU W/O H2S (Real): 1145.77**

*BTU Calc: Dry*

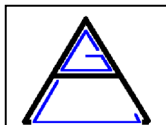
**Sp. Gravity (Real): 0.8072**  
 Field Gravity:  
 Lab Gravitometer:

**GPM Ethane+ (Real): 5.188**  
**GPM Propane+ (Real): 2.696**  
**GPM IC5+ (Real): 0.618**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**



**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 540395  
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	1.6821	0.000	0.016		<b>Producer: Centennial</b> <b>Well / Sta. Name: Butters Stotch 8 State Com 124H</b> <b>Sta. No.: N/L</b> <b>Formation:</b> <b>Field: New Mexico</b> <b>County:</b> <b>API Number: 3002552485</b>  <b>Spot / Composite: SP</b> Date / Time On: Date / Time Off: 11/18/24 Date to Lab: 11/18/24 Date Analyzed: 11/22/24 Effective Date:  Sample Press. (PSIG): 163 Line Press. (PSIG): 163 Sample Temp. (F): 103 Fl. Gas Temp. (F): 103 Amb. Temp. (F): 42  Del. To: Sampled By: JL Cylinder No.: 664
Methane	76.0110	765.308	0.421		
CO2	4.8445	0.000	0.074		
Ethane	8.7645	154.620	0.091	2.339	
H2S	0.0800	0.000	0.001		
Propane	4.6157	115.772	0.070	1.269	
Iso-Butane	0.7017	22.747	0.014	0.229	
Butane	1.6038	52.157	0.032	0.505	
Iso-Pentane	0.4768	19.017	0.012	0.174	
Pentane	0.4276	17.088	0.011	0.155	
Hexanes C6+	0.7923	40.512	0.025	0.345	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
<b>Totals</b>	<b>100.0000</b>	<b>1187.220</b>	<b>0.767</b>	<b>5.016</b>	

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

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

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

Z Factor (Dry): 0.9963314  
 Z Factor (Act.): 0.9963314

Dry BTU w/ H2S: 1192.10
Sat BTU w/ H2S: 1171.70
As Del. BTU w/ H2S: 1192.10

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

*BTU Calc: Dry*

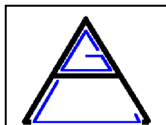
**Sp. Gravity (Real): 0.7699**  
 Field Gravity:  
 Lab Gravitometer:

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

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**



**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 540394  
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	1.9629	0.000	0.019		<b>Producer:</b> <b>Well / Sta. Name:</b> CASA BONITA/BUTTER SCOTCH CONTACT #2 <b>Sta. No.:</b> T20598285 <b>Formation:</b> <b>Field:</b> New Mexico <b>County:</b> <b>API Number:</b> N/L  <b>Spot / Composite:</b> SP Date / Time On: Date / Time Off: 11/18/24 Date to Lab: 11/18/24 Date Analyzed: 11/22/24 Effective Date:  Sample Press. (PSIG): 148 Line Press. (PSIG): 148 Sample Temp. (F): 58 Fl. Gas Temp. (F): 58 Amb. Temp. (F): 42  Del. To: Sampled By: JL Cylinder No.: 73
Methane	76.4020	769.245	0.423		
CO2	3.9250	0.000	0.060		
Ethane	9.6603	170.423	0.100	2.578	
H2S	0.0001	0.000	0.000		
Propane	4.8659	122.048	0.074	1.338	
Iso-Butane	0.6155	19.953	0.012	0.201	
Butane	1.3824	44.957	0.028	0.435	
Iso-Pentane	0.3277	13.070	0.008	0.120	
Pentane	0.2809	11.225	0.007	0.102	
Hexanes C6+	0.5773	29.518	0.019	0.251	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1180.439	0.750	5.025	

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

**Field H2S (PPM):** 0.5  
 Field H2S (Grains): 0.03

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

Z Factor (Dry): 0.9964888  
 Z Factor (Act.): 0.9964888

Dry BTU w/ H2S: 1184.60
Sat BTU w/ H2S: 1164.32
As Del. BTU w/ H2S: 1184.60

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

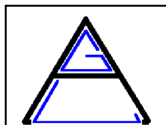
*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7524**  
 Field Gravity:  
 Lab Gravimeter:

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

GPA 2145 / 2172

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



**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 344160  
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	3.8993	0.000	0.038		<b>Producer: Centennial</b> <b>Well / Sta. Name: MARGARITA 12 STATE COM 301H</b> <b>Sta. No.: N/L</b> <b>Formation:</b> <b>Field: New Mexico</b> <b>County:</b> <b>API Number: 3002551988</b>  <b>Spot / Composite: SP</b> Date / Time On: Date / Time Off: 11/18/24 Date to Lab: 11/19/24 Date Analyzed: 11/22/24 Effective Date:  Sample Press. (PSIG): 180 Line Press. (PSIG): 180 Sample Temp. (F): 89 Fl. Gas Temp. (F): 89 Amb. Temp. (F): 74  Del. To: Sampled By: JT Cylinder No.: 859
Methane	71.0290	715.147	0.393		
CO2	9.2805	0.000	0.141		
Ethane	8.6061	151.825	0.089	2.296	
H2S	0.1800	0.000	0.002		
Propane	4.0604	101.844	0.062	1.116	
Iso-Butane	0.4673	15.149	0.009	0.153	
Butane	1.2437	40.446	0.025	0.391	
Iso-Pentane	0.3362	13.409	0.008	0.123	
Pentane	0.3502	13.995	0.009	0.127	
Hexanes C6+	0.5473	27.984	0.018	0.238	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
<b>Totals</b>	<b>100.0000</b>	<b>1079.799</b>	<b>0.794</b>	<b>4.444</b>	

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

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

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

Z Factor (Dry): 0.9965297  
 Z Factor (Act.): 0.9965297

Dry BTU w/ H2S: 1084.71
Sat BTU w/ H2S: 1066.13
As Del. BTU w/ H2S: 1084.71

**Dry BTU W/O H2S (Real): 1083.56**

**Sat. BTU W/O H2S (Real): 1065.00**

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

**AS DEL. BTU W/O H2S (Real): 1083.56**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7969**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 4.444**

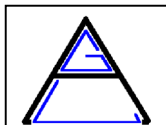
**GPM Propane+ (Real): 2.148**

**GPM IC5+ (Real): 0.488**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**



**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 344159  
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	3.6948	0.000	0.036		<b>Producer: Centennial</b> <b>Well / Sta. Name: MARGARITA 12 STATE COM 302H</b> <b>Sta. No.: N/L</b> <b>Formation:</b> <b>Field: New Mexico</b> <b>County:</b> <b>API Number: 3002551989</b>  <b>Spot / Composite: SP</b> Date / Time On: Date / Time Off: 11/18/24 Date to Lab: 11/18/24 Date Analyzed: 11/22/24 Effective Date:  Sample Press. (PSIG): 178 Line Press. (PSIG): 178 Sample Temp. (F): 94 Fl. Gas Temp. (F): 94 Amb. Temp. (F): 46  Del. To: Sampled By: IF Cylinder No.: 715
Methane	70.3348	708.158	0.390		
CO2	9.0479	0.000	0.137		
Ethane	9.0579	159.796	0.094	2.417	
H2S	0.2000	0.000	0.002		
Propane	4.4019	110.410	0.067	1.210	
Iso-Butane	0.5131	16.633	0.010	0.168	
Butane	1.3653	44.401	0.027	0.430	
Iso-Pentane	0.3731	14.881	0.009	0.136	
Pentane	0.3891	15.549	0.010	0.141	
Hexanes C6+	0.6221	31.809	0.020	0.271	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
<b>Totals</b>	<b>100.0000</b>	<b>1101.636</b>	<b>0.803</b>	<b>4.773</b>	

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

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

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

Z Factor (Dry): 0.9964010  
 Z Factor (Act.): 0.9964010

Dry BTU w/ H2S: 1106.89
Sat BTU w/ H2S: 1087.94
As Del. BTU w/ H2S: 1106.89

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

*BTU Calc: Dry*

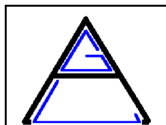
**Sp. Gravity (Real): 0.8055**  
 Field Gravity:  
 Lab Gravitometer:

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

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**



**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 344158  
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	1.9828	0.000	0.019		<b>Producer: Centennial</b> <b>Well / Sta. Name: Duck Hunt 1 State Com 501H</b> <b>Sta. No.: 3758</b> <b>Formation:</b> <b>Field: New Mexico</b> <b>County:</b> <b>API Number: 3002545265</b>  <b>Spot / Composite: SP</b> Date / Time On: Date / Time Off: 11/20/24 Date to Lab: 11/21/24 Date Analyzed: 11/22/24 Effective Date:  Sample Press. (PSIG): 150 Line Press. (PSIG): 150 Sample Temp. (F): 70 Fl. Gas Temp. (F): 70 Amb. Temp. (F): 61  Del. To: Sampled By: RO Cylinder No.: AGL-183
Methane	80.3075	808.567	0.445		
CO2	3.0542	0.000	0.046		
Ethane	7.9310	139.916	0.082	2.116	
H2S	0.0100	0.000	0.000		
Propane	3.9315	98.611	0.060	1.080	
Iso-Butane	0.5392	17.479	0.011	0.176	
Butane	1.1444	37.217	0.023	0.360	
Iso-Pentane	0.3151	12.567	0.008	0.115	
Pentane	0.2671	10.674	0.007	0.097	
Hexanes C6+	0.5172	26.445	0.017	0.225	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
<b>Totals</b>	<b>100.0000</b>	<b>1151.476</b>	<b>0.718</b>	<b>4.169</b>	

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

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

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

Z Factor (Dry): 0.9967828  
 Z Factor (Act.): 0.9967828

Dry BTU w/ H2S: 1155.26
Sat BTU w/ H2S: 1135.46
As Del. BTU w/ H2S: 1155.26

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

*BTU Calc: Dry*

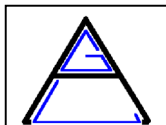
**Sp. Gravity (Real): 0.7197**  
 Field Gravity:  
 Lab Gravitometer:

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

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**



**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 344157  
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	2.4944	0.000	0.024		<b>Producer: Centennial</b> <b>Well / Sta. Name: Duck Hunt 1 State Com 302H</b> <b>Sta. No.: 09609</b> <b>Formation:</b> <b>Field: New Mexico</b> <b>County:</b> <b>API Number: 3002546344</b>  <b>Spot / Composite: SP</b> Date / Time On: Date / Time Off: 11/19/24 Date to Lab: 11/19/24 Date Analyzed: 11/22/24 Effective Date:  Sample Press. (PSIG): 148 Line Press. (PSIG): 148 Sample Temp. (F): 75 Fl. Gas Temp. (F): 75 Amb. Temp. (F): 73  Del. To: Sampled By: RO Cylinder No.: AGL-175
Methane	77.0994	776.267	0.427		
CO2	4.9667	0.000	0.075		
Ethane	8.3009	146.441	0.086	2.215	
H2S	0.0300	0.000	0.000		
Propane	4.1179	103.286	0.063	1.132	
Iso-Butane	0.5475	17.748	0.011	0.179	
Butane	1.3112	42.641	0.026	0.412	
Iso-Pentane	0.3393	13.533	0.008	0.124	
Pentane	0.3233	12.920	0.008	0.117	
Hexanes C6+	0.4694	24.001	0.015	0.204	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
<b>Totals</b>	<b>100.0000</b>	<b>1136.837</b>	<b>0.745</b>	<b>4.383</b>	

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

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

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

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

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

**Dry BTU W/O H2S (Real): 1140.64**  
**Sat. BTU W/O H2S (Real): 1121.10**  
**H2O (# / mmcf): 0.0**  
**AS DEL. BTU W/O H2S (Real): 1140.64**

*BTU Calc: Dry*

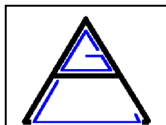
**Sp. Gravity (Real): 0.7470**  
 Field Gravity:  
 Lab Gravitometer:

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

GPA 2145 / 2172

**Fld. Remarks:**

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



**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 344156  
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	2.3193	0.000	0.022		<b>Producer: Centennial</b> <b>Well / Sta. Name: Chimichangas 12 State 502H</b> <b>Sta. No.: 50909</b> <b>Formation:</b> <b>Field: New Mexico</b> <b>County:</b> <b>API Number: 3002549581</b>  <b>Spot / Composite: SP</b> Date / Time On: Date / Time Off: 11/18/24 Date to Lab: 11/19/24 Date Analyzed: 11/22/24 Effective Date:  Sample Press. (PSIG): 146 Line Press. (PSIG): 146 Sample Temp. (F): 80 Fl. Gas Temp. (F): 80 Amb. Temp. (F): 49  Del. To: Sampled By: EL Cylinder No.: 184
Methane	79.4947	800.383	0.440		
CO2	2.2482	0.000	0.034		
Ethane	8.8710	156.499	0.092	2.367	
H2S	0.0100	0.000	0.000		
Propane	4.1395	103.828	0.063	1.138	
Iso-Butane	0.5191	16.828	0.010	0.169	
Butane	1.2741	41.435	0.026	0.401	
Iso-Pentane	0.3320	13.241	0.008	0.121	
Pentane	0.3210	12.828	0.008	0.116	
Hexanes C6+	0.4711	24.088	0.015	0.205	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
<b>Totals</b>	<b>100.0000</b>	<b>1169.130</b>	<b>0.720</b>	<b>4.517</b>	

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

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

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

Z Factor (Dry): 0.9967332  
 Z Factor (Act.): 0.9967332

Dry BTU w/ H2S: 1173.03
Sat BTU w/ H2S: 1152.93
As Del. BTU w/ H2S: 1173.03

**Dry BTU W/O H2S (Real): 1172.96**

**Sat. BTU W/O H2S (Real): 1152.87**

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

**AS DEL. BTU W/O H2S (Real): 1172.96**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7216**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 4.517**

**GPM Propane+ (Real): 2.150**

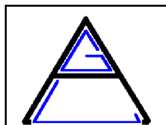
**GPM IC5+ (Real): 0.442**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**





**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 344155  
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	0.2100	0.000	0.002		<b>Producer:</b> <b>Well / Sta. Name:</b> WINEBAGO 501/501 VRU <b>Sta. No.:</b> 9357 <b>Formation:</b> <b>Field:</b> New Mexico <b>County:</b> <b>API Number:</b> N/L  <b>Spot / Composite:</b> SP Date / Time On: Date / Time Off: 11/20/24 Date to Lab: 11/20/24 Date Analyzed: 11/22/24 Effective Date:  Sample Press. (PSIG): 146 Line Press. (PSIG): 146 Sample Temp. (F): 96 Fl. Gas Temp. (F): 96 Amb. Temp. (F): 40  Del. To: Sampled By: JT Cylinder No.: 842
Methane	24.9408	251.114	0.138		
CO2	3.0671	0.000	0.047		
Ethane	17.3870	306.735	0.181	4.686	
H2S	0.0700	0.000	0.001		
Propane	28.1351	705.691	0.428	7.812	
Iso-Butane	6.3126	204.637	0.127	2.082	
Butane	14.9253	485.384	0.300	4.742	
Iso-Pentane	2.6935	107.427	0.067	0.993	
Pentane	1.7726	70.836	0.044	0.648	
Hexanes C6+	0.4860	24.850	0.016	0.214	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
<b>Totals</b>	<b>100.0000</b>	<b>2156.673</b>	<b>1.350</b>	<b>21.177</b>	

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

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

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

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

Dry BTU w/ H2S: 2186.45
Sat BTU w/ H2S: 2149.28
As Del. BTU w/ H2S: 2186.45

**Dry BTU W/O H2S (Real): 2186.00**  
**Sat. BTU W/O H2S (Real): 2148.84**  
**H2O (# / mmcf): 0.0**  
**AS DEL. BTU W/O H2S (Real): 2186.00**

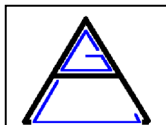
*BTU Calc: Dry*

**Sp. Gravity (Real): 1.3674**  
 Field Gravity:  
 Lab Gravimeter:

**GPM Ethane+ (Real): 21.177**  
**GPM Propane+ (Real): 16.491**  
**GPM IC5+ (Real): 1.855**

GPA 2145 / 2172

**Fld. Remarks: TAG: NO API PER WHITNEY**  
**Lab Remarks: CP @ LAB 101 PSIG**



**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 344154  
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	1.8438	0.000	0.018		<b>Producer: Centennial</b> <b>Well / Sta. Name: Winnebago 30 State Com 602H</b> <b>Sta. No.: 69871</b> <b>Formation:</b> <b>Field: New Mexico</b> <b>County:</b> <b>API Number: 3002550273</b>  <b>Spot / Composite: SP</b> Date / Time On: Date / Time Off: 11/20/24 Date to Lab: 11/20/24 Date Analyzed: 11/22/24 Effective Date:  Sample Press. (PSIG): 144 Line Press. (PSIG): 144 Sample Temp. (F): 34 Fl. Gas Temp. (F): 34 Amb. Temp. (F): 31  Del. To: Sampled By: JL Cylinder No.: 845
Methane	81.6200	821.782	0.452		
CO2	1.8168	0.000	0.028		
Ethane	8.8850	156.746	0.092	2.370	
H2S	0.0200	0.000	0.000		
Propane	3.6286	91.013	0.055	0.997	
Iso-Butane	0.4619	14.974	0.009	0.151	
Butane	0.9989	32.485	0.020	0.314	
Iso-Pentane	0.2570	10.250	0.006	0.094	
Pentane	0.2170	8.672	0.005	0.078	
Hexanes C6+	0.2510	12.834	0.008	0.109	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
<b>Totals</b>	<b>100.0000</b>	<b>1148.755</b>	<b>0.694</b>	<b>4.113</b>	

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

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

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

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

Dry BTU w/ H2S: 1152.41
Sat BTU w/ H2S: 1132.66
As Del. BTU w/ H2S: 1152.41

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

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

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

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

*BTU Calc: Dry*

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

Field Gravity:

Lab Gravitometer:

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

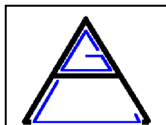
**GPM Propane+ (Real): 1.743**

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

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**



**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 344153  
 Customer: Centennial

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

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

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

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

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

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

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

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

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

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

**Dry BTU W/O H2S (Real): 1208.80**  
**Sat. BTU W/O H2S (Real): 1188.10**  
**H2O (# / mmcf): 0.0**  
**AS DEL. BTU W/O H2S (Real): 1208.79**

*BTU Calc: Dry*

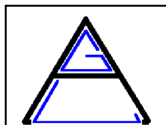
**Sp. Gravity (Real): 0.7303**  
 Field Gravity:  
 Lab Gravitometer:

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

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.: 344152  
 Customer: Centennial

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

**Producer:** Centennial  
**Well / Sta. Name:** Margarita 12 State Com 601H  
**Sta. No.:** 67510  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002549821  
**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/18/24  
 Date to Lab: 11/19/24  
 Date Analyzed: 11/22/24  
 Effective Date:  
 Sample Press. (PSIG): 137  
 Line Press. (PSIG): 137  
 Sample Temp. (F): 72  
 Fl. Gas Temp. (F): 72  
 Amb. Temp. (F): 49  
 Del. To:  
 Sampled By: EL  
 Cylinder No.: 731

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

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

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

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

Dry BTU w/ H2S: 1216.32
Sat BTU w/ H2S: 1195.49
As Del. BTU w/ H2S: 1216.32

**Dry BTU W/O H2S (Real): 1216.26**  
**Sat. BTU W/O H2S (Real): 1195.43**  
**H2O (# / mmcf): 0.0**  
**AS DEL. BTU W/O H2S (Real): 1216.26**

*BTU Calc: Dry*

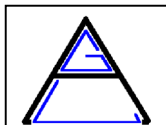
**Sp. Gravity (Real): 0.7310**  
 Field Gravity:  
 Lab Gravitometer:

**GPM Ethane+ (Real): 5.302**  
**GPM Propane+ (Real): 2.484**  
**GPM IC5+ (Real): 0.417**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**



**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 344151  
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	1.8119	0.000	0.018		<b>Producer: Centennial</b> <b>Well / Sta. Name: Winnebago 30 State Com 603H</b> <b>Sta. No.: 69885</b> <b>Formation:</b> <b>Field: New Mexico</b> <b>County:</b> <b>API Number: 3002550274</b>  <b>Spot / Composite: SP</b> Date / Time On: Date / Time Off: 11/20/24 Date to Lab: 11/20/24 Date Analyzed: 11/22/24 Effective Date:  Sample Press. (PSIG): 134 Line Press. (PSIG): 134 Sample Temp. (F): 37 Fl. Gas Temp. (F): 37 Amb. Temp. (F): 31  Del. To: Sampled By: JL Cylinder No.: 865
Methane	80.7934	813.459	0.448		
CO2	0.8139	0.000	0.012		
Ethane	9.5372	168.252	0.099	2.544	
H2S	0.0040	0.000	0.000		
Propane	4.4678	112.062	0.068	1.228	
Iso-Butane	0.5656	18.335	0.011	0.185	
Butane	1.1773	38.287	0.024	0.370	
Iso-Pentane	0.2943	11.738	0.007	0.107	
Pentane	0.2463	9.843	0.006	0.089	
Hexanes C6+	0.2883	14.741	0.009	0.126	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
<b>Totals</b>	<b>100.0000</b>	<b>1186.717</b>	<b>0.702</b>	<b>4.649</b>	

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

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

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

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

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

**Dry BTU W/O H2S (Real): 1190.54**

**Sat. BTU W/O H2S (Real): 1170.14**

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

**AS DEL. BTU W/O H2S (Real): 1190.54**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7042**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 4.649**

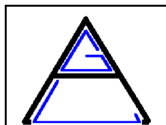
**GPM Propane+ (Real): 2.105**

**GPM IC5+ (Real): 0.322**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**



**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 344150  
 Customer: Centennial

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

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

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

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

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

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

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

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

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

Dry BTU w/ H2S: 1146.96
Sat BTU w/ H2S: 1127.32
As Del. BTU w/ H2S: 1146.96

**Dry BTU W/O H2S (Real): 1146.96**  
**Sat. BTU W/O H2S (Real): 1127.32**  
**H2O (# / mmcf): 0.0**  
**AS DEL. BTU W/O H2S (Real): 1146.96**

*BTU Calc: Dry*

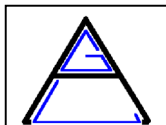
**Sp. Gravity (Real): 0.7658**  
 Field Gravity:  
 Lab Gravitometer:

**GPM Ethane+ (Real): 4.745**  
**GPM Propane+ (Real): 2.370**  
**GPM IC5+ (Real): 0.424**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**



**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 344149  
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	3.9281	0.000	0.038		<b>Producer: Centennial</b> <b>Well / Sta. Name: CHIMICHANGAS 12 STATE 301H</b> <b>Sta. No.: N/L</b> <b>Formation:</b> <b>Field: New Mexico</b> <b>County:</b> <b>API Number: 3002552448</b>  <b>Spot / Composite: SP</b> Date / Time On: Date / Time Off: 11/18/24 Date to Lab: 11/19/24 Date Analyzed: 11/22/24 Effective Date:  Sample Press. (PSIG): 179 Line Press. (PSIG): 179 Sample Temp. (F): 74 Fl. Gas Temp. (F): 74 Amb. Temp. (F): 59  Del. To: Sampled By: JT Cylinder No.: 430
Methane	70.2277	707.080	0.389		
CO2	8.1110	0.000	0.123		
Ethane	9.1785	161.923	0.095	2.450	
H2S	0.1000	0.000	0.001		
Propane	4.8147	120.763	0.073	1.324	
Iso-Butane	0.5711	18.513	0.011	0.186	
Butane	1.5254	49.607	0.031	0.480	
Iso-Pentane	0.4124	16.448	0.010	0.151	
Pentane	0.4316	17.247	0.011	0.156	
Hexanes C6+	0.6995	35.767	0.023	0.305	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
<b>Totals</b>	<b>100.0000</b>	<b>1127.349</b>	<b>0.806</b>	<b>5.052</b>	

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

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

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

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

Dry BTU w/ H2S: 1132.15
Sat BTU w/ H2S: 1112.77
As Del. BTU w/ H2S: 1132.15

**Dry BTU W/O H2S (Real): 1131.52**  
**Sat. BTU W/O H2S (Real): 1112.15**  
**H2O (# / mmcf): 0.0**  
**AS DEL. BTU W/O H2S (Real): 1131.52**

*BTU Calc: Dry*

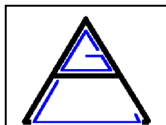
**Sp. Gravity (Real): 0.8083**  
 Field Gravity:  
 Lab Gravitometer:

**GPM Ethane+ (Real): 5.052**  
**GPM Propane+ (Real): 2.602**  
**GPM IC5+ (Real): 0.612**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**



**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 344148  
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	2.2708	0.000	0.022		<b>Producer: Centennial</b> <b>Well / Sta. Name: CHIMICHANGAS 12 STATE COM 602H</b> <b>Sta. No.: 84083</b> <b>Formation:</b> <b>Field: New Mexico</b> <b>County:</b> <b>API Number: 3002546615</b>  <b>Spot / Composite: SP</b> Date / Time On: Date / Time Off: 11/18/24 Date to Lab: 11/18/24 Date Analyzed: 11/22/24 Effective Date:  Sample Press. (PSIG): 150 Line Press. (PSIG): 150 Sample Temp. (F): 76 Fl. Gas Temp. (F): 76 Amb. Temp. (F): 46  Del. To: Sampled By: IF Cylinder No.: 187
Methane	78.1546	786.891	0.433		
CO2	1.2768	0.000	0.019		
Ethane	10.1338	178.777	0.105	2.704	
H2S	0.0070	0.000	0.000		
Propane	4.9255	123.543	0.075	1.354	
Iso-Butane	0.6051	19.616	0.012	0.198	
Butane	1.4647	47.633	0.029	0.461	
Iso-Pentane	0.3273	13.054	0.008	0.119	
Pentane	0.3091	12.352	0.008	0.112	
Hexanes C6+	0.5253	26.859	0.017	0.229	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
<b>Totals</b>	<b>100.0000</b>	<b>1208.724</b>	<b>0.729</b>	<b>5.177</b>	

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

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

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

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

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

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

*BTU Calc: Dry*

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

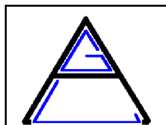
**GPM Ethane+ (Real): 5.177**  
**GPM Propane+ (Real): 2.473**  
**GPM IC5+ (Real): 0.460**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**





**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 344147  
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	1.9168	0.000	0.019		<b>Producer: Centennial</b> <b>Well / Sta. Name: Donkey Kong 1 Fed Com 502H</b> <b>Sta. No.: 48172</b> <b>Formation:</b> <b>Field: New Mexico</b> <b>County:</b> <b>API Number: 3002545679</b>  <b>Spot / Composite: SP</b> Date / Time On: Date / Time Off: 11/20/24 Date to Lab: 11/21/24 Date Analyzed: 11/22/24 Effective Date:  Sample Press. (PSIG): 142 Line Press. (PSIG): 142 Sample Temp. (F): 86 Fl. Gas Temp. (F): 86 Amb. Temp. (F): 67  Del. To: Sampled By: RO Cylinder No.: AGL-755
Methane	80.6726	812.243	0.447		
CO2	2.4495	0.000	0.037		
Ethane	7.7620	136.934	0.081	2.071	
H2S	0.0100	0.000	0.000		
Propane	3.9234	98.408	0.060	1.078	
Iso-Butane	0.5791	18.773	0.012	0.189	
Butane	1.3085	42.554	0.026	0.412	
Iso-Pentane	0.3945	15.734	0.010	0.144	
Pentane	0.3450	13.787	0.009	0.125	
Hexanes C6+	0.6386	32.653	0.021	0.278	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
<b>Totals</b>	<b>100.0000</b>	<b>1171.085</b>	<b>0.720</b>	<b>4.297</b>	

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

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

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

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

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

**Dry BTU W/O H2S (Real): 1174.95**  
**Sat. BTU W/O H2S (Real): 1154.83**  
**H2O (# / mmcf): 0.0**  
**AS DEL. BTU W/O H2S (Real): 1174.95**

*BTU Calc: Dry*

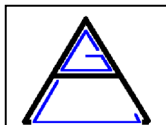
**Sp. Gravity (Real): 0.7220**  
 Field Gravity:  
 Lab Gravitometer:

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

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**



**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 344146  
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	1.9127	0.000	0.018		<b>Producer: Centennial</b> <b>Well / Sta. Name: Donkey Kong 1 Fed Com 501H</b> <b>Sta. No.: 47408</b> <b>Formation:</b> <b>Field: New Mexico</b> <b>County:</b> <b>API Number: 3002545678</b>  <b>Spot / Composite: SP</b> Date / Time On: Date / Time Off: 11/20/24 Date to Lab: 11/21/24 Date Analyzed: 11/22/24 Effective Date:  Sample Press. (PSIG): 141 Line Press. (PSIG): 141 Sample Temp. (F): 82 Fl. Gas Temp. (F): 82 Amb. Temp. (F): 67  Del. To: Sampled By: RO Cylinder No.: AGL-450
Methane	80.6275	811.789	0.447		
CO2	2.4661	0.000	0.037		
Ethane	7.8327	138.181	0.081	2.090	
H2S	0.0100	0.000	0.000		
Propane	3.9426	98.889	0.060	1.084	
Iso-Butane	0.5827	18.890	0.012	0.190	
Butane	1.3583	44.173	0.027	0.427	
Iso-Pentane	0.4110	16.392	0.010	0.150	
Pentane	0.3605	14.406	0.009	0.130	
Hexanes C6+	0.4959	25.356	0.016	0.216	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
<b>Totals</b>	<b>100.0000</b>	<b>1168.077</b>	<b>0.718</b>	<b>4.287</b>	

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

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

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

Z Factor (Dry): 0.9967336  
 Z Factor (Act.): 0.9967336

Dry BTU w/ H2S: 1171.97
Sat BTU w/ H2S: 1151.89
As Del. BTU w/ H2S: 1171.97

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

*BTU Calc: Dry*

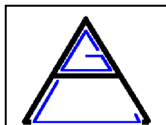
**Sp. Gravity (Real): 0.7202**  
 Field Gravity:  
 Lab Gravitometer:

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

GPA 2145 / 2172

**Fid. 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.: 344145  
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	3.3120	0.000	0.032		<b>Producer: Centennial</b> <b>Well / Sta. Name: Donkey Kong 1 Fed Com 302H</b> <b>Sta. No.: N/L</b> <b>Formation:</b> <b>Field: New Mexico</b> <b>County:</b> <b>API Number: 3002545676</b>  <b>Spot / Composite: SP</b> Date / Time On: Date / Time Off: 11/20/24 Date to Lab: 11/21/24 Date Analyzed: 11/22/24 Effective Date:  Sample Press. (PSIG): 137 Line Press. (PSIG): 137 Sample Temp. (F): 88 Fl. Gas Temp. (F): 88 Amb. Temp. (F): 67  Del. To: Sampled By: RO Cylinder No.: AGL-439
Methane	71.7829	722.738	0.398		
CO2	8.5024	0.000	0.129		
Ethane	8.8515	156.155	0.092	2.362	
H2S	0.2000	0.000	0.002		
Propane	4.1977	105.288	0.064	1.154	
Iso-Butane	0.4973	16.121	0.010	0.162	
Butane	1.2882	41.893	0.026	0.405	
Iso-Pentane	0.3783	15.088	0.009	0.138	
Pentane	0.3844	15.361	0.010	0.139	
Hexanes C6+	0.6053	30.950	0.019	0.264	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
<b>Totals</b>	<b>100.0000</b>	<b>1103.594</b>	<b>0.791</b>	<b>4.624</b>	

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

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

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

Z Factor (Dry): 0.9964618  
 Z Factor (Act.): 0.9964618

Dry BTU w/ H2S: 1108.79
Sat BTU w/ H2S: 1089.80
As Del. BTU w/ H2S: 1108.79

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

*BTU Calc: Dry*

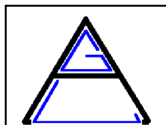
**Sp. Gravity (Real): 0.7938**  
 Field Gravity:  
 Lab Gravitometer:

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

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**



**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 344144  
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	1.8343	0.000	0.018		<b>Producer: Centennial</b> <b>Well / Sta. Name: Winnebago 30 State Com 604H</b> <b>Sta. No.: 9883</b> <b>Formation:</b> <b>Field: New Mexico</b> <b>County:</b> <b>API Number: 3002550275</b>  <b>Spot / Composite: SP</b> Date / Time On: Date / Time Off: 11/20/24 Date to Lab: 11/20/24 Date Analyzed: 11/22/24 Effective Date:  Sample Press. (PSIG): 134 Line Press. (PSIG): 134 Sample Temp. (F): 41 Fl. Gas Temp. (F): 41 Amb. Temp. (F): 31  Del. To: Sampled By: JL Cylinder No.: 618
Methane	79.9245	804.711	0.443		
CO2	1.0848	0.000	0.016		
Ethane	9.5818	169.038	0.099	2.556	
H2S	0.0200	0.000	0.000		
Propane	4.4273	111.047	0.067	1.217	
Iso-Butane	0.6747	21.872	0.014	0.220	
Butane	1.4990	48.749	0.030	0.471	
Iso-Pentane	0.3455	13.780	0.009	0.126	
Pentane	0.2717	10.858	0.007	0.098	
Hexanes C6+	0.3364	17.201	0.011	0.146	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
<b>Totals</b>	<b>100.0000</b>	<b>1197.254</b>	<b>0.714</b>	<b>4.834</b>	

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

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

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

Z Factor (Dry): 0.9966854  
 Z Factor (Act.): 0.9966854

Dry BTU w/ H2S: 1201.36
Sat BTU w/ H2S: 1180.78
As Del. BTU w/ H2S: 1201.36

**Dry BTU W/O H2S (Real): 1201.24**

**Sat. BTU W/O H2S (Real): 1180.66**

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

**AS DEL. BTU W/O H2S (Real): 1201.24**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7160**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 4.834**

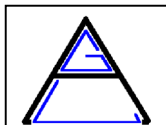
**GPM Propane+ (Real): 2.278**

**GPM IC5+ (Real): 0.370**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**



**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 344143  
 Customer: Centennial

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

**Producer:**  
**Well / Sta. Name:** WINNEBAGO NORTH WINDS SC  
**Sta. No.:** T231308196  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** N/L  
**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 11/20/24  
 Date to Lab: 11/21/24  
 Date Analyzed: 11/22/24  
 Effective Date:  
 Sample Press. (PSIG): 129  
 Line Press. (PSIG): 129  
 Sample Temp. (F): 69  
 Fl. Gas Temp. (F): 69  
 Amb. Temp. (F): 37  
 Del. To:  
 Sampled By: EL  
 Cylinder No.: 743

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

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

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

Z Factor (Dry): 0.9965016  
 Z Factor (Act.): 0.9965016

Dry BTU w/ H2S: 1172.97
Sat BTU w/ H2S: 1152.89
As Del. BTU w/ H2S: 1172.97

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

*BTU Calc: Dry*

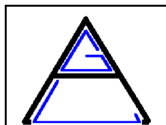
**Sp. Gravity (Real): 0.7542**  
 Field Gravity:  
 Lab Gravitometer:

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

GPA 2145 / 2172

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

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



**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 344142  
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	1.4187	0.000	0.014		<b>Producer: Centennial</b> <b>Well / Sta. Name: Winnebago 30 State Com 601H</b> <b>Sta. No.: 69881</b> <b>Formation:</b> <b>Field: New Mexico</b> <b>County:</b> <b>API Number: 3002550272</b>  <b>Spot / Composite: SP</b> Date / Time On: Date / Time Off: 11/20/24 Date to Lab: 11/20/24 Date Analyzed: 11/22/24 Effective Date:  Sample Press. (PSIG): 123 Line Press. (PSIG): 123 Sample Temp. (F): 31 Fl. Gas Temp. (F): 31 Amb. Temp. (F): 31  Del. To: Sampled By: JL Cylinder No.: 809
Methane	79.4743	800.178	0.440		
CO2	1.0235	0.000	0.016		
Ethane	10.4907	185.073	0.109	2.799	
H2S	0.0050	0.000	0.000		
Propane	4.7775	119.830	0.073	1.313	
Iso-Butane	0.6443	20.886	0.013	0.210	
Butane	1.4107	45.877	0.028	0.444	
Iso-Pentane	0.2864	11.423	0.007	0.104	
Pentane	0.2279	9.107	0.006	0.082	
Hexanes C6+	0.2410	12.323	0.008	0.105	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
<b>Totals</b>	<b>100.0000</b>	<b>1204.697</b>	<b>0.713</b>	<b>5.057</b>	

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

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

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

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

Dry BTU w/ H2S: 1208.76
Sat BTU w/ H2S: 1188.06
As Del. BTU w/ H2S: 1208.76

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

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

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

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

*BTU Calc: Dry*

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

Field Gravity:

Lab Gravimeter:

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

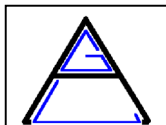
**GPM Propane+ (Real): 2.258**

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

GPA 2145 / 2172

**Fld. Remarks:**

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



**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 344141  
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	2.0616	0.000	0.020		<b>Producer: Centennial</b> <b>Well / Sta. Name: Carne Asada State Com 501H</b> <b>Sta. No.: 9608</b> <b>Formation:</b> <b>Field: New Mexico</b> <b>County:</b> <b>API Number: 3002546021</b>  <b>Spot / Composite: SP</b> Date / Time On: Date / Time Off: 11/18/24 Date to Lab: 11/19/24 Date Analyzed: 11/22/24 Effective Date:  Sample Press. (PSIG): 113 Line Press. (PSIG): 113 Sample Temp. (F): 72 Fl. Gas Temp. (F): 72 Amb. Temp. (F): 45  Del. To: Sampled By: JT Cylinder No.: 800
Methane	74.3536	748.621	0.412		
CO2	3.8488	0.000	0.058		
Ethane	10.7385	189.444	0.111	2.866	
H2S	0.0100	0.000	0.000		
Propane	5.6592	141.945	0.086	1.556	
Iso-Butane	0.6818	22.102	0.014	0.223	
Butane	1.5028	48.872	0.030	0.473	
Iso-Pentane	0.3227	12.870	0.008	0.118	
Pentane	0.3006	12.012	0.007	0.109	
Hexanes C6+	0.5204	26.609	0.017	0.227	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
<b>Totals</b>	<b>100.0000</b>	<b>1202.477</b>	<b>0.764</b>	<b>5.572</b>	

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

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

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

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

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

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

*BTU Calc: Dry*

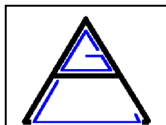
**Sp. Gravity (Real): 0.7666**  
 Field Gravity:  
 Lab Gravimeter:

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

GPA 2145 / 2172

**Fld. Remarks:**

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



**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 344140  
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	1.4871	0.000	0.014		<b>Producer: Centennial</b> <b>Well / Sta. Name: MERCHANT LIVESTOCK 24-2H</b> <b>Sta. No.: 22414-1</b> <b>Formation:</b> <b>Field: New Mexico</b> <b>County:</b> <b>API Number: 3002541347</b>  <b>Spot / Composite: SP</b> Date / Time On: Date / Time Off: 11/19/24 Date to Lab: 11/21/24 Date Analyzed: 11/22/24 Effective Date:  Sample Press. (PSIG): 62 Line Press. (PSIG): 62 Sample Temp. (F): 71 Fl. Gas Temp. (F): 71 Amb. Temp. (F): 44  Del. To: Sampled By: EL Cylinder No.: 799
Methane	72.2906	727.850	0.400		
CO2	0.2681	0.000	0.004		
Ethane	14.6711	258.822	0.152	3.917	
H2S	0.0100	0.000	0.000		
Propane	7.2355	181.483	0.110	1.990	
Iso-Butane	0.7374	23.904	0.015	0.241	
Butane	1.8677	60.739	0.037	0.588	
Iso-Pentane	0.4012	16.001	0.010	0.147	
Pentane	0.3929	15.701	0.010	0.142	
Hexanes C6+	0.6384	32.642	0.021	0.278	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
<b>Totals</b>	<b>100.0000</b>	<b>1317.142</b>	<b>0.774</b>	<b>7.303</b>	

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

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

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

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

Dry BTU w/ H2S: 1322.63
Sat BTU w/ H2S: 1300.01
As Del. BTU w/ H2S: 1322.63

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

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

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

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

*BTU Calc: Dry*

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

Field Gravity:

Lab Gravitometer:

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

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

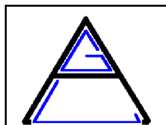
**GPM IC5+ (Real): 0.567**

GPA 2145 / 2172

**Fld. Remarks:**

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





**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 344139  
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	1.6249	0.000	0.016		<b>Producer: Centennial</b> <b>Well / Sta. Name: MERCHANT GAP 36 STATE COM 1H</b> <b>Sta. No.: 50714-1</b> <b>Formation:</b> <b>Field: New Mexico</b> <b>County:</b> <b>API Number: 3002541352</b>  <b>Spot / Composite: SP</b> Date / Time On: Date / Time Off: 11/19/24 Date to Lab: 11/21/24 Date Analyzed: 11/22/24 Effective Date:  Sample Press. (PSIG): 56 Line Press. (PSIG): 56 Sample Temp. (F): 79 Fl. Gas Temp. (F): 79 Amb. Temp. (F): 61  Del. To: Sampled By: EL Cylinder No.: 768
Methane	78.7736	793.123	0.436		
CO2	0.5447	0.000	0.008		
Ethane	10.5009	185.253	0.109	2.802	
H2S	0.0003	0.000	0.000		
Propane	5.0826	127.483	0.077	1.397	
Iso-Butane	0.6786	21.998	0.014	0.222	
Butane	1.5448	50.238	0.031	0.486	
Iso-Pentane	0.3753	14.968	0.009	0.137	
Pentane	0.3317	13.255	0.008	0.120	
Hexanes C6+	0.5426	27.744	0.017	0.236	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
<b>Totals</b>	<b>100.0000</b>	<b>1234.063</b>	<b>0.726</b>	<b>5.400</b>	

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

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

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

Z Factor (Dry): 0.9964849  
 Z Factor (Act.): 0.9964849

Dry BTU w/ H2S: 1238.42
Sat BTU w/ H2S: 1217.21
As Del. BTU w/ H2S: 1238.42

**Dry BTU W/O H2S (Real): 1238.42**

**Sat. BTU W/O H2S (Real): 1217.21**

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

**AS DEL. BTU W/O H2S (Real): 1238.42**

*BTU Calc: Dry*

**Sp. Gravity (Real): 0.7287**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 5.400**

**GPM Propane+ (Real): 2.598**

**GPM IC5+ (Real): 0.493**

GPA 2145 / 2172

**Fld. Remarks:**

**Lab Remarks:**

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

For inquiries regarding this filing, please contact the operator.

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 465525

**DEFINITIONS**

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 465525
	Action Type: [C-129] Venting and/or Flaring (C-129)

**DEFINITIONS**

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application:

- this application's operator, hereinafter "this operator";
- venting and/or flaring, hereinafter "vent or flare";
- any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";
- the statements in (and/or attached to) this, hereinafter "the statements in this";
- and the past tense will be used in lieu of mixed past/present tense questions and statements.

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 465525

**QUESTIONS**

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 465525
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

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

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

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

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

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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS, Page 2

Action 465525

**QUESTIONS (continued)**

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 465525
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	05/12/2025
Time vent or flare was discovered or commenced	06:00 AM
Time vent or flare was terminated	06:00 PM
Cumulative hours during this event	12

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Repair and Maintenance   Tank (Any)   Natural Gas Flared   Released: 51 Mcf   Recovered: 0 Mcf   Lost: 51 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	VRU down due high condensate levels, platinum is working to make necessary repairs
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



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

General Information  
Phone: (505) 629-6116

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

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

ACKNOWLEDGMENTS

Action 465525

**ACKNOWLEDGMENTS**

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 465525
	Action Type: [C-129] Venting and/or Flaring (C-129)

**ACKNOWLEDGMENTS**

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

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

General Information  
Phone: (505) 629-6116

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

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

CONDITIONS

Action 465525

**CONDITIONS**

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 465525
	Action Type: [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.	5/21/2025