

**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		
Methane	70.4550	709.368	0.390		
CO2	7.6116	0.000	0.116		
Ethane	9.3379	164.736	0.097	2.492	
H2S	0.0900	0.000	0.001		
Propane	4.9602	124.413	0.076	1.364	
Iso-Butane	0.6180	20.034	0.012	0.202	
Butane	1.6266	52.898	0.033	0.512	
Iso-Pentane	0.4303	17.162	0.011	0.157	
Pentane	0.4527	18.091	0.011	0.164	
Hexanes C6+	0.6807	34.805	0.022	0.297	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1141.507	0.805	5.188	

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

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

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

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

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

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

Dry BTU w/ H2S: 1146.34

Sat BTU w/ H2S: 1126.72

As Del. BTU w/ H2S: 1146.34

Dry BTU W/O H2S (Real): 1145.77

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

H2O (# / mmcf): 0.0

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

BTU Calc: Dry

Sp. Gravity (Real): 0.8072

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 5.188

GPM Propane+ (Real): 2.696

GPM IC5+ (Real): 0.618

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks:

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GAS ANALYSIS REPORT

Analysis No.: 540395
 Customer: Centennial

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

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

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

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

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

Field H2O (#/mm):

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

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

Z Factor (Dry): 0.9963314

Z Factor (Act.): 0.9963314

Dry BTU w/ H2S: 1192.10

Sat BTU w/ H2S: 1171.70

As Del. BTU w/ H2S: 1192.10

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

Field Gravity:

Lab Gravitometer:

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

GPA 2145 / 2172

Fld. Remarks:**Lab Remarks:**

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GAS ANALYSIS REPORT

Analysis No.: 540394
 Customer: Centennial

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

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

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

Field H2S (Grains): 0.03

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

Z Factor (Dry): 0.9964888

Z Factor (Act.): 0.9964888

Dry BTU w/ H2S: 1184.60

Sat BTU w/ H2S: 1164.32

As Del. BTU w/ H2S: 1184.60

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

Field Gravity:

Lab Gravitometer:

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

GPA 2145 / 2172

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

**ARMSTRONG GAS LABS, INC.**

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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		
Methane	71.0290	715.147	0.393		
CO2	9.2805	0.000	0.141		
Ethane	8.6061	151.825	0.089	2.296	
H2S	0.1800	0.000	0.002		
Propane	4.0604	101.844	0.062	1.116	
Iso-Butane	0.4673	15.149	0.009	0.153	
Butane	1.2437	40.446	0.025	0.391	
Iso-Pentane	0.3362	13.409	0.008	0.123	
Pentane	0.3502	13.995	0.009	0.127	
Hexanes C6+	0.5473	27.984	0.018	0.238	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1079.799	0.794	4.444	

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

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

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

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

Field H2O (#/mm):

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

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

Z Factor (Dry): 0.9965297

Z Factor (Act.): 0.9965297

Dry BTU w/ H2S: 1084.71

Sat BTU w/ H2S: 1066.13

As Del. BTU w/ H2S: 1084.71

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

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 4.444**GPM Propane+ (Real): 2.148****GPM IC5+ (Real): 0.488****Fld. Remarks:****Lab Remarks:**

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GAS ANALYSIS REPORT

Analysis No.: 344159
 Customer: Centennial

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

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

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

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

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

Field H2O (#/mm):

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

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

Z Factor (Dry): 0.9964010

Z Factor (Act.): 0.9964010

Dry BTU w/ H2S: 1106.89

Sat BTU w/ H2S: 1087.94

As Del. BTU w/ H2S: 1106.89

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

Field Gravity:

Lab Gravitometer:

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

GPA 2145 / 2172

Fld. Remarks:**Lab Remarks:**

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GAS ANALYSIS REPORT

Analysis No.: 344158
 Customer: Centennial

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

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

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

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

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

Field H2O (#/mm):

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

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

Z Factor (Dry): 0.9967828

Z Factor (Act.): 0.9967828

Dry BTU w/ H2S: 1155.26

Sat BTU w/ H2S: 1135.46

As Del. BTU w/ H2S: 1155.26

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

Field Gravity:

Lab Gravitometer:

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

GPA 2145 / 2172

Fld. Remarks:**Lab Remarks:**

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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		
Methane	77.0994	776.267	0.427		
CO2	4.9667	0.000	0.075		
Ethane	8.3009	146.441	0.086	2.215	
H2S	0.0300	0.000	0.000		
Propane	4.1179	103.286	0.063	1.132	
Iso-Butane	0.5475	17.748	0.011	0.179	
Butane	1.3112	42.641	0.026	0.412	
Iso-Pentane	0.3393	13.533	0.008	0.124	
Pentane	0.3233	12.920	0.008	0.117	
Hexanes C6+	0.4694	24.001	0.015	0.204	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1136.837	0.745	4.383	

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

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

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

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

Field H2O (#/mm):

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

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

Z Factor (Dry): 0.9966647

Z Factor (Act.): 0.9966647

Dry BTU w/ H2S: 1140.83

Sat BTU w/ H2S: 1121.29

As Del. BTU w/ H2S: 1140.83

Dry BTU W/O H2S (Real): 1140.64**Sat. BTU W/O H2S (Real): 1121.10****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1140.64***BTU Calc: Dry***Sp. Gravity (Real): 0.7470**

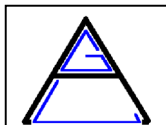
Field Gravity:

Lab Gravitometer:

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

GPA 2145 / 2172

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

**ARMSTRONG GAS LABS, INC.**

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GAS ANALYSIS REPORT

Analysis No.: 344156
 Customer: Centennial

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

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

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

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

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

Field H2O (#/mm):

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

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

Z Factor (Dry): 0.9967332

Z Factor (Act.): 0.9967332

Dry BTU w/ H2S: 1173.03

Sat BTU w/ H2S: 1152.93

As Del. BTU w/ H2S: 1173.03

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

Field Gravity:

Lab Gravitometer:

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

GPA 2145 / 2172

Fld. Remarks:**Lab Remarks:**

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GAS ANALYSIS REPORT

Analysis No.: 344155
 Customer: Centennial

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

Field H2O (#/mm):

Field H2S (PPM): 700.0

Field H2S (Grains): 44.05

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

Z Factor (Dry): 0.9865833

Z Factor (Act.): 0.9865832

Dry BTU w/ H2S: 2186.45

Sat BTU w/ H2S: 2149.28

As Del. BTU w/ H2S: 2186.45

Dry BTU W/O H2S (Real): 2186.00**Sat. BTU W/O H2S (Real): 2148.84****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 2186.00***BTU Calc: Dry***Sp. Gravity (Real): 1.3674**

Field Gravity:

Lab Gravitometer:

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

GPA 2145 / 2172

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

**ARMSTRONG GAS LABS, INC.**

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GAS ANALYSIS REPORT

Analysis No.: 344154
 Customer: Centennial

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

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

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

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

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

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

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

Dry BTU w/ H2S: 1152.41

Sat BTU w/ H2S: 1132.66

As Del. BTU w/ H2S: 1152.41

Dry BTU W/O H2S (Real): 1152.28

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

H2O (# / mmcf): 0.0

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

BTU Calc: Dry

Sp. Gravity (Real): 0.6963

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 4.113

GPM Propane+ (Real): 1.743

GPM IC5+ (Real): 0.281

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks:

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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:

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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:

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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		
Methane	80.7934	813.459	0.448		
CO2	0.8139	0.000	0.012		
Ethane	9.5372	168.252	0.099	2.544	
H2S	0.0040	0.000	0.000		
Propane	4.4678	112.062	0.068	1.228	
Iso-Butane	0.5656	18.335	0.011	0.185	
Butane	1.1773	38.287	0.024	0.370	
Iso-Pentane	0.2943	11.738	0.007	0.107	
Pentane	0.2463	9.843	0.006	0.089	
Hexanes C6+	0.2883	14.741	0.009	0.126	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1186.717	0.702	4.649	

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

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

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

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

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

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

Dry BTU w/ H2S: 1190.56

Sat BTU w/ H2S: 1170.17

As Del. BTU w/ H2S: 1190.56

Dry BTU W/O H2S (Real): 1190.54

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

H2O (# / mmcf): 0.0

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

BTU Calc: Dry

Sp. Gravity (Real): 0.7042

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 4.649

GPM Propane+ (Real): 2.105

GPM IC5+ (Real): 0.322

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks:

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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:

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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		
Methane	70.2277	707.080	0.389		
CO2	8.1110	0.000	0.123		
Ethane	9.1785	161.923	0.095	2.450	
H2S	0.1000	0.000	0.001		
Propane	4.8147	120.763	0.073	1.324	
Iso-Butane	0.5711	18.513	0.011	0.186	
Butane	1.5254	49.607	0.031	0.480	
Iso-Pentane	0.4124	16.448	0.010	0.151	
Pentane	0.4316	17.247	0.011	0.156	
Hexanes C6+	0.6995	35.767	0.023	0.305	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1127.349	0.806	5.052	

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

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

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

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

Field H2O (#/mm):

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

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

Z Factor (Dry): 0.9963182

Z Factor (Act.): 0.9963182

Dry BTU w/ H2S: 1132.15

Sat BTU w/ H2S: 1112.77

As Del. BTU w/ H2S: 1132.15

Dry BTU W/O H2S (Real): 1131.52**Sat. BTU W/O H2S (Real): 1112.15****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1131.52***BTU Calc: Dry***Sp. Gravity (Real): 0.8083**

Field Gravity:

Lab Gravitometer:

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

GPA 2145 / 2172

Fld. Remarks:**Lab Remarks:**

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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		
Methane	78.1546	786.891	0.433		
CO2	1.2768	0.000	0.019		
Ethane	10.1338	178.777	0.105	2.704	
H2S	0.0070	0.000	0.000		
Propane	4.9255	123.543	0.075	1.354	
Iso-Butane	0.6051	19.616	0.012	0.198	
Butane	1.4647	47.633	0.029	0.461	
Iso-Pentane	0.3273	13.054	0.008	0.119	
Pentane	0.3091	12.352	0.008	0.112	
Hexanes C6+	0.5253	26.859	0.017	0.229	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1208.724	0.729	5.177	

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

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

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

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

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

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

Dry BTU w/ H2S: 1212.94

Sat BTU w/ H2S: 1192.17

As Del. BTU w/ H2S: 1212.94

Dry BTU W/O H2S (Real): 1212.90

Sat. BTU W/O H2S (Real): 1192.13

H2O (# / mmcf): 0.0

AS DEL. BTU W/O H2S (Real): 1212.90

BTU Calc: Dry

Sp. Gravity (Real): 0.7311

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 5.177

GPM Propane+ (Real): 2.473

GPM IC5+ (Real): 0.460

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks:

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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		
Methane	80.6726	812.243	0.447		
CO2	2.4495	0.000	0.037		
Ethane	7.7620	136.934	0.081	2.071	
H2S	0.0100	0.000	0.000		
Propane	3.9234	98.408	0.060	1.078	
Iso-Butane	0.5791	18.773	0.012	0.189	
Butane	1.3085	42.554	0.026	0.412	
Iso-Pentane	0.3945	15.734	0.010	0.144	
Pentane	0.3450	13.787	0.009	0.125	
Hexanes C6+	0.6386	32.653	0.021	0.278	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1171.085	0.720	4.297	

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

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

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

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

Field H2O (#/mm):

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

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

Z Factor (Dry): 0.9967081

Z Factor (Act.): 0.9967081

Dry BTU w/ H2S: 1175.02

Sat BTU w/ H2S: 1154.89

As Del. BTU w/ H2S: 1175.02

Dry BTU W/O H2S (Real): 1174.95**Sat. BTU W/O H2S (Real): 1154.83****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1174.95***BTU Calc: Dry***Sp. Gravity (Real): 0.7220**

Field Gravity:

Lab Gravitometer:

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

GPA 2145 / 2172

Fld. Remarks:**Lab Remarks:**

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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		
Methane	80.6275	811.789	0.447		
CO2	2.4661	0.000	0.037		
Ethane	7.8327	138.181	0.081	2.090	
H2S	0.0100	0.000	0.000		
Propane	3.9426	98.889	0.060	1.084	
Iso-Butane	0.5827	18.890	0.012	0.190	
Butane	1.3583	44.173	0.027	0.427	
Iso-Pentane	0.4110	16.392	0.010	0.150	
Pentane	0.3605	14.406	0.009	0.130	
Hexanes C6+	0.4959	25.356	0.016	0.216	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1168.077	0.718	4.287	

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

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

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

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

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

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

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

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

BTU Calc: Dry

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

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

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks:

**ARMSTRONG GAS LABS, INC.**

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		
Methane	71.7829	722.738	0.398		
CO2	8.5024	0.000	0.129		
Ethane	8.8515	156.155	0.092	2.362	
H2S	0.2000	0.000	0.002		
Propane	4.1977	105.288	0.064	1.154	
Iso-Butane	0.4973	16.121	0.010	0.162	
Butane	1.2882	41.893	0.026	0.405	
Iso-Pentane	0.3783	15.088	0.009	0.138	
Pentane	0.3844	15.361	0.010	0.139	
Hexanes C6+	0.6053	30.950	0.019	0.264	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1103.594	0.791	4.624	

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

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

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

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

Field H2O (#/mm):

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

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

Z Factor (Dry): 0.9964618

Z Factor (Act.): 0.9964618

Dry BTU w/ H2S: 1108.79

Sat BTU w/ H2S: 1089.80

As Del. BTU w/ H2S: 1108.79

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

Field Gravity:

Lab Gravitometer:

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

GPA 2145 / 2172

Fld. Remarks:**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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 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		
Methane	79.9245	804.711	0.443		
CO2	1.0848	0.000	0.016		
Ethane	9.5818	169.038	0.099	2.556	
H2S	0.0200	0.000	0.000		
Propane	4.4273	111.047	0.067	1.217	
Iso-Butane	0.6747	21.872	0.014	0.220	
Butane	1.4990	48.749	0.030	0.471	
Iso-Pentane	0.3455	13.780	0.009	0.126	
Pentane	0.2717	10.858	0.007	0.098	
Hexanes C6+	0.3364	17.201	0.011	0.146	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1197.254	0.714	4.834	

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

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

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

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

Field H2O (#/mm):

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

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

Z Factor (Dry): 0.9966854

Z Factor (Act.): 0.9966854

Dry BTU w/ H2S: 1201.36

Sat BTU w/ H2S: 1180.78

As Del. BTU w/ H2S: 1201.36

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

Field Gravity:

Lab Gravitometer:

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

GPA 2145 / 2172

Fld. Remarks:**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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GAS ANALYSIS REPORT

Analysis No.: 344143
 Customer: Centennial

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

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

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

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

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

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

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

Dry BTU w/ H2S: 1208.76

Sat BTU w/ H2S: 1188.06

As Del. BTU w/ H2S: 1208.76

Dry BTU W/O H2S (Real): 1208.73

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

H2O (# / mmcf): 0.0

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

BTU Calc: Dry

Sp. Gravity (Real): 0.7151

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 5.057

GPM Propane+ (Real): 2.258

GPM IC5+ (Real): 0.291

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks: CP @ LAB 144 PSIG

**ARMSTRONG GAS LABS, INC.**

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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		
Methane	74.3536	748.621	0.412		
CO2	3.8488	0.000	0.058		
Ethane	10.7385	189.444	0.111	2.866	
H2S	0.0100	0.000	0.000		
Propane	5.6592	141.945	0.086	1.556	
Iso-Butane	0.6818	22.102	0.014	0.223	
Butane	1.5028	48.872	0.030	0.473	
Iso-Pentane	0.3227	12.870	0.008	0.118	
Pentane	0.3006	12.012	0.007	0.109	
Hexanes C6+	0.5204	26.609	0.017	0.227	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1202.477	0.764	5.572	

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

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

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

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

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

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

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

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

BTU Calc: Dry

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

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

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks: CP @ LAB 153 PSIG

**ARMSTRONG GAS LABS, INC.**

P.O. Box 988
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 (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		
Methane	72.2906	727.850	0.400		
CO2	0.2681	0.000	0.004		
Ethane	14.6711	258.822	0.152	3.917	
H2S	0.0100	0.000	0.000		
Propane	7.2355	181.483	0.110	1.990	
Iso-Butane	0.7374	23.904	0.015	0.241	
Butane	1.8677	60.739	0.037	0.588	
Iso-Pentane	0.4012	16.001	0.010	0.147	
Pentane	0.3929	15.701	0.010	0.142	
Hexanes C6+	0.6384	32.642	0.021	0.278	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1317.142	0.774	7.303	

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

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

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

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

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

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

Dry BTU w/ H2S: 1322.63

Sat BTU w/ H2S: 1300.01

As Del. BTU w/ H2S: 1322.63

Dry BTU W/O H2S (Real): 1322.57

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

H2O (# / mmcf): 0.0

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

BTU Calc: Dry

Sp. Gravity (Real): 0.7769

Field Gravity:
 Lab Gravitometer:

GPM Ethane+ (Real): 7.303

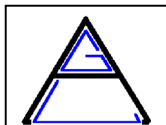
GPM Propane+ (Real): 3.386

GPM IC5+ (Real): 0.567

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks: CP @ LAB 37 PSIG

**ARMSTRONG GAS LABS, INC.**

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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		
Methane	78.7736	793.123	0.436		
CO2	0.5447	0.000	0.008		
Ethane	10.5009	185.253	0.109	2.802	
H2S	0.0003	0.000	0.000		
Propane	5.0826	127.483	0.077	1.397	
Iso-Butane	0.6786	21.998	0.014	0.222	
Butane	1.5448	50.238	0.031	0.486	
Iso-Pentane	0.3753	14.968	0.009	0.137	
Pentane	0.3317	13.255	0.008	0.120	
Hexanes C6+	0.5426	27.744	0.017	0.236	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1234.063	0.726	5.400	

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

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

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

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

Field H2O (#/mm):

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

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

Z Factor (Dry): 0.9964849

Z Factor (Act.): 0.9964849

Dry BTU w/ H2S: 1238.42

Sat BTU w/ H2S: 1217.21

As Del. BTU w/ H2S: 1238.42

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

Field Gravity:

Lab Gravitometer:

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

GPA 2145 / 2172

Fld. Remarks:**Lab Remarks:**

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

For inquiries regarding this filing, please contact the operator.

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 421123

DEFINITIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 421123
	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.

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

QUESTIONS

Action 421123

QUESTIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 421123
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Prerequisites <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

Determination of Reporting Requirements <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 at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this vent or flare result in the release of ANY liquids (not fully and/or completely flared) that reached (or has a chance of reaching) the ground, a surface, a watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water	No
Was the vent or flare within an incorporated municipal boundary or withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

Equipment Involved	
Primary Equipment Involved	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

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

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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 421123

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 421123
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	01/06/2025
Time vent or flare was discovered or commenced	06:00 AM
Time vent or flare was terminated	10:00 PM
Cumulative hours during this event	16

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 Separator Natural Gas Flared Released: 84 Mcf Recovered: 0 Mcf Lost: 84 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	Targa bluehound/greyhound down
Steps taken to limit the duration and magnitude of vent or flare	Open valves to divert gas to a second midstream company to relive 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 421123

ACKNOWLEDGMENTS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 421123
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☒	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 complete C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
☒	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.
☒	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.
☒	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.
☒	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 421123

CONDITIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 421123
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
cdowning	If the information provided in this report requires an amendment, submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	1/15/2025