

**ARMSTRONG GAS LABS, INC.**

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

GAS ANALYSIS REPORT

Analysis No.: 540370
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	3.0033	0.000	0.029		
Methane	73.4768	739.793	0.407		
CO2	6.0491	0.000	0.092		
Ethane	9.9739	175.956	0.104	2.661	
H2S	0.0003	0.000	0.000		
Propane	4.7047	118.004	0.072	1.293	
Iso-Butane	0.5784	18.750	0.012	0.189	
Butane	1.3467	43.796	0.027	0.424	
Iso-Pentane	0.2933	11.698	0.007	0.107	
Pentane	0.2807	11.217	0.007	0.102	
Hexanes C6+	0.2928	14.971	0.009	0.127	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1134.185	0.765	4.903	

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

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

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

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

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

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

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

Dry BTU W/O H2S (Real): 1138.10

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

H2O (# / mmcf): 0.0

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

BTU Calc: Dry

Sp. Gravity (Real): 0.7678

Field Gravity:
 Lab Gravitometer:

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

Fld. Remarks: TAG: NO API PER WHITNEY

Lab Remarks:

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GAS ANALYSIS REPORT

Analysis No.: 540369
 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	2.2820	0.000	0.022		
Methane	79.1951	797.367	0.439		
CO2	1.6926	0.000	0.026		
Ethane	9.6579	170.381	0.100	2.577	
H2S	0.0008	0.000	0.000		
Propane	4.4636	111.957	0.068	1.227	
Iso-Butane	0.5518	17.888	0.011	0.180	
Butane	1.2932	42.056	0.026	0.407	
Iso-Pentane	0.2869	11.443	0.007	0.105	
Pentane	0.2657	10.618	0.007	0.096	
Hexanes C6+	0.3104	15.871	0.010	0.135	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1177.580	0.715	4.727	
					Producer: Well / Sta. Name: CHIMICHANGA 12 SR COM 601H INJ Sta. No.: 99635 Formation: Field: New Mexico County: API Number: N/L Spot / Composite: SP Date / Time On: Date / Time Off: 11/18/24 Date to Lab: 11/18/24 Date Analyzed: 11/20/24 Effective Date: Sample Press. (PSIG): 1084 Line Press. (PSIG): 1084 Sample Temp. (F): 121 Fl. Gas Temp. (F): 121 Amb. Temp. (F): 65 Del. To: Sampled By: IF Cylinder No.: 846

Field H2O (#/mm):

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

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

Z Factor (Dry): 0.9967428

Z Factor (Act.): 0.9967428

Dry BTU w/ H2S: 1181.43

Sat BTU w/ H2S: 1161.19

As Del. BTU w/ H2S: 1181.43

Dry BTU W/O H2S (Real): 1181.43**Sat. BTU W/O H2S (Real): 1161.19****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1181.43***BTU Calc: Dry***Sp. Gravity (Real): 0.7175**

Field Gravity:

Lab Gravitometer:

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

GPA 2145 / 2172

Fld. Remarks: TAG: NO API PER WHITNEY**Lab Remarks: HIGH TEMP**

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GAS ANALYSIS REPORT

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

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

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

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

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

Field H2O (#/mm):

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

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

Z Factor (Dry): 0.9966697

Z Factor (Act.): 0.9966697

Dry BTU w/ H2S: 1184.48

Sat BTU w/ H2S: 1164.19

As Del. BTU w/ H2S: 1184.48

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

Field Gravity:

Lab Gravitometer:

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

GPA 2145 / 2172

Fld. Remarks:**Lab Remarks:**

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GAS ANALYSIS REPORT

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

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

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

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

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

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

Z Factor (Dry): 0.9965911
 Z Factor (Act.): 0.9965911

Dry BTU w/ H2S: 1213.73

Sat BTU w/ H2S: 1192.94

As Del. BTU w/ H2S: 1213.73

Dry BTU W/O H2S (Real): 1213.73

Sat. BTU W/O H2S (Real): 1192.94

H2O (# / mmcf): 0.0

AS DEL. BTU W/O H2S (Real): 1213.73

BTU Calc: Dry

Sp. Gravity (Real): 0.7258

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 5.287

GPM Propane+ (Real): 2.349

GPM IC5+ (Real): 0.397

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks:

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GAS ANALYSIS REPORT

Analysis No.: 540366
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	2.1251	0.000	0.021		
Methane	78.0559	785.897	0.432		
CO2	0.9768	0.000	0.015		
Ethane	11.3104	199.534	0.117	3.018	
H2S	0.0100	0.000	0.000		
Propane	4.8127	120.713	0.073	1.323	
Iso-Butane	0.5402	17.512	0.011	0.176	
Butane	1.2635	41.090	0.025	0.397	
Iso-Pentane	0.2700	10.769	0.007	0.099	
Pentane	0.2602	10.398	0.006	0.094	
Hexanes C6+	0.3752	19.185	0.012	0.163	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1205.097	0.720	5.270	

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

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

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

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

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

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

Dry BTU w/ H2S: 1209.24

Sat BTU w/ H2S: 1188.53

As Del. BTU w/ H2S: 1209.24

Dry BTU W/O H2S (Real): 1209.17

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

H2O (# / mmcf): 0.0

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

BTU Calc: Dry

Sp. Gravity (Real): 0.7222

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 5.270

GPM Propane+ (Real): 2.252

GPM IC5+ (Real): 0.356

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks:

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GAS ANALYSIS REPORT

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

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

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

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

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

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

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

Dry BTU w/ H2S: 1195.07
 Sat BTU w/ H2S: 1174.60
 As Del. BTU w/ H2S: 1195.07

Dry BTU W/O H2S (Real): 1195.04

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

H2O (# / mmcf): 0.0

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

BTU Calc: Dry

Sp. Gravity (Real): 0.7300

Field Gravity:
 Lab Gravitometer:

GPM Ethane+ (Real): 4.912
GPM Propane+ (Real): 2.323
GPM IC5+ (Real): 0.478

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks:

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GAS ANALYSIS REPORT

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

Producer: Centennial
Well / Sta. Name: ERIC CARTMAN 6 STATE COM 501H
Sta. No.: T230193868
Formation:
Field: New Mexico
County:
API Number: 3002550932
Spot / Composite: SP
 Date / Time On:
 Date / Time Off: 11/14/24
 Date to Lab: 11/18/24
 Date Analyzed: 11/20/24
 Effective Date:

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

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

Field H2O (#/mm):

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

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

Z Factor (Dry): 0.9965736

Z Factor (Act.): 0.9965736

Dry BTU w/ H2S: 1198.75

Sat BTU w/ H2S: 1178.22

As Del. BTU w/ H2S: 1198.75

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

Field Gravity:

Lab Gravitometer:

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

GPA 2145 / 2172

Fld. Remarks:**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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GAS ANALYSIS REPORT

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

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

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

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

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

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

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

Dry BTU w/ H2S: 1317.19

Sat BTU w/ H2S: 1294.67

As Del. BTU w/ H2S: 1317.19

Dry BTU W/O H2S (Real): 1317.07

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

H2O (# / mmcf): 0.0

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

BTU Calc: Dry

Sp. Gravity (Real): 0.8148

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 7.994

GPM Propane+ (Real): 3.544

GPM IC5+ (Real): 0.563

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks: CP @ LAB 150 PSIG

**ARMSTRONG GAS LABS, INC.**

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GAS ANALYSIS REPORT

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

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

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

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

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

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

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

Dry BTU w/ H2S: 1184.27

Sat BTU w/ H2S: 1163.98

As Del. BTU w/ H2S: 1184.27

Dry BTU W/O H2S (Real): 1184.21

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

H2O (# / mmcf): 0.0

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

BTU Calc: Dry

Sp. Gravity (Real): 0.7213

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 4.882

GPM Propane+ (Real): 2.125

GPM IC5+ (Real): 0.337

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks:

**ARMSTRONG GAS LABS, INC.**

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

GAS ANALYSIS REPORT

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

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

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

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

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

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

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

Dry BTU w/ H2S: 1178.25

Sat BTU w/ H2S: 1158.07

As Del. BTU w/ H2S: 1178.25

Dry BTU W/O H2S (Real): 1178.23

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

H2O (# / mmcf): 0.0

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

BTU Calc: Dry

Sp. Gravity (Real): 0.7225

Field Gravity:
 Lab Gravitometer:

GPM Ethane+ (Real): 4.666
GPM Propane+ (Real): 2.154
GPM IC5+ (Real): 0.400

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks:

**ARMSTRONG GAS LABS, INC.**

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GAS ANALYSIS REPORT

Analysis No.: 540346
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	3.2790	0.000	0.032		
Methane	69.6549	701.312	0.386		
CO2	7.8856	0.000	0.120		
Ethane	9.8595	173.937	0.102	2.632	
H2S	0.3200	0.000	0.004		
Propane	5.0654	127.052	0.077	1.393	
Iso-Butane	0.6344	20.565	0.013	0.207	
Butane	1.6536	53.777	0.033	0.520	
Iso-Pentane	0.4441	17.712	0.011	0.162	
Pentane	0.4534	18.119	0.011	0.164	
Hexanes C6+	0.7501	38.354	0.024	0.327	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1150.828	0.813	5.405	

Producer: Centennial
Well / Sta. Name: ERIC CARTMAN 6 STATE COM 304H
Sta. No.: N/L
Formation:
Field: New Mexico
County:
API Number: 3002552304

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

Sample Press. (PSIG): 193
 Line Press. (PSIG): 193
 Sample Temp. (F): 113
 Fl. Gas Temp. (F): 113
 Amb. Temp. (F): 53

Del. To:
 Sampled By: EL
 Cylinder No.: 716

Field H2O (#/mm):

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

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

Z Factor (Dry): 0.9961653

Z Factor (Act.): 0.9961652

Dry BTU w/ H2S: 1157.30

Sat BTU w/ H2S: 1137.49

As Del. BTU w/ H2S: 1157.30

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

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 5.405**GPM Propane+ (Real): 2.773****GPM IC5+ (Real): 0.653**

GPA 2145 / 2172

Fld. Remarks:**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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GAS ANALYSIS REPORT

Analysis No.: 540345
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	2.2272	0.000	0.022		
Methane	78.2058	787.406	0.433		
CO2	0.9866	0.000	0.015		
Ethane	10.7570	189.771	0.112	2.870	
H2S	0.0010	0.000	0.000		
Propane	4.9268	123.575	0.075	1.354	
Iso-Butane	0.5951	19.291	0.012	0.194	
Butane	1.3618	44.287	0.027	0.428	
Iso-Pentane	0.2755	10.988	0.007	0.101	
Pentane	0.2650	10.590	0.007	0.096	
Hexanes C6+	0.3982	20.361	0.013	0.173	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1206.269	0.722	5.216	

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

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

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

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

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

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

Dry BTU w/ H2S: 1210.37

Sat BTU w/ H2S: 1189.64

As Del. BTU w/ H2S: 1210.37

Dry BTU W/O H2S (Real): 1210.36

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

H2O (# / mmcf): 0.0

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

BTU Calc: Dry

Sp. Gravity (Real): 0.7241

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 5.216

GPM Propane+ (Real): 2.346

GPM IC5+ (Real): 0.370

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks:

**ARMSTRONG GAS LABS, INC.**

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GAS ANALYSIS REPORT

Analysis No.: 540344
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	3.3598	0.000	0.032		
Methane	68.5724	690.413	0.380		
CO2	9.1225	0.000	0.139		
Ethane	9.8433	173.652	0.102	2.628	
H2S	0.2800	0.000	0.003		
Propane	5.0725	127.230	0.077	1.395	
Iso-Butane	0.6156	19.956	0.012	0.201	
Butane	1.6048	52.190	0.032	0.505	
Iso-Pentane	0.4142	16.520	0.010	0.151	
Pentane	0.4271	17.068	0.011	0.154	
Hexanes C6+	0.6878	35.168	0.022	0.300	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1132.196	0.821	5.334	

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

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

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

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

Field H2O (#/mm):

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

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

Z Factor (Dry): 0.9961700

Z Factor (Act.): 0.9961700

Dry BTU w/ H2S: 1138.33

Sat BTU w/ H2S: 1118.85

As Del. BTU w/ H2S: 1138.33

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

Field Gravity:

Lab Gravitometer:

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

GPA 2145 / 2172

Fld. Remarks:**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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GAS ANALYSIS REPORT

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

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

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

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

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

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

Z Factor (Dry): 0.9965717
 Z Factor (Act.): 0.9965717

Dry BTU w/ H2S: 1213.75

Sat BTU w/ H2S: 1192.97

As Del. BTU w/ H2S: 1213.75

Dry BTU W/O H2S (Real): 1213.69

Sat. BTU W/O H2S (Real): 1192.91

H2O (# / mmcf): 0.0

AS DEL. BTU W/O H2S (Real): 1213.69

BTU Calc: Dry

Sp. Gravity (Real): 0.7302

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 5.375

GPM Propane+ (Real): 2.423

GPM IC5+ (Real): 0.358

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks:

**ARMSTRONG GAS LABS, INC.**

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GAS ANALYSIS REPORT

Analysis No.: 540342
 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	2.1019	0.000	0.020		
Methane	77.8671	783.996	0.431		
CO2	1.0674	0.000	0.016		
Ethane	10.7932	190.409	0.112	2.880	
H2S	0.0020	0.000	0.000		
Propane	5.0629	126.989	0.077	1.392	
Iso-Butane	0.6305	20.439	0.013	0.206	
Butane	1.4435	46.944	0.029	0.454	
Iso-Pentane	0.2981	11.889	0.007	0.109	
Pentane	0.2878	11.501	0.007	0.104	
Hexanes C6+	0.4456	22.784	0.014	0.194	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1214.952	0.728	5.339	

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

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

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

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

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

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

Dry BTU w/ H2S: 1219.17

Sat BTU w/ H2S: 1198.29

As Del. BTU w/ H2S: 1219.17

Dry BTU W/O H2S (Real): 1219.16

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

H2O (# / mmcf): 0.0

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

BTU Calc: Dry

Sp. Gravity (Real): 0.7298

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 5.339

GPM Propane+ (Real): 2.459

GPM IC5+ (Real): 0.407

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks:

**ARMSTRONG GAS LABS, INC.**

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GAS ANALYSIS REPORT

Analysis No.: 540341
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	2.1581	0.000	0.021		
Methane	79.7754	803.210	0.442		
CO2	2.2268	0.000	0.034		
Ethane	9.0677	159.969	0.094	2.419	
H2S	0.0030	0.000	0.000		
Propane	4.0371	101.260	0.061	1.110	
Iso-Butane	0.4882	15.826	0.010	0.159	
Butane	1.1338	36.872	0.023	0.357	
Iso-Pentane	0.2968	11.838	0.007	0.108	
Pentane	0.2876	11.493	0.007	0.104	
Hexanes C6+	0.5255	26.870	0.017	0.229	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1167.336	0.716	4.486	

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

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

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

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

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

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

Dry BTU w/ H2S: 1171.16

Sat BTU w/ H2S: 1151.10

As Del. BTU w/ H2S: 1171.16

Dry BTU W/O H2S (Real): 1171.14

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

H2O (# / mmcf): 0.0

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

BTU Calc: Dry

Sp. Gravity (Real): 0.7183

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 4.486

GPM Propane+ (Real): 2.067

GPM IC5+ (Real): 0.441

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks:

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GAS ANALYSIS REPORT

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

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

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

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

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

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

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

Dry BTU w/ H2S: 1208.96

Sat BTU w/ H2S: 1188.26

As Del. BTU w/ H2S: 1208.96

Dry BTU W/O H2S (Real): 1208.96

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

H2O (# / mmcf): 0.0

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

BTU Calc: Dry

Sp. Gravity (Real): 0.7240

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 5.210

GPM Propane+ (Real): 2.319

GPM IC5+ (Real): 0.371

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks:

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GAS ANALYSIS REPORT

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

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

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

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

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

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

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

Dry BTU w/ H2S: 1167.42
 Sat BTU w/ H2S: 1147.44
 As Del. BTU w/ H2S: 1167.42

Dry BTU W/O H2S (Real): 1167.42

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

H2O (# / mmcf): 0.0

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

BTU Calc: Dry

Sp. Gravity (Real): 0.8133

Field Gravity:
 Lab Gravitometer:

GPM Ethane+ (Real): 5.682
GPM Propane+ (Real): 2.863
GPM IC5+ (Real): 0.571

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks: CP @ LAB 124 PSIG

**ARMSTRONG GAS LABS, INC.**

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

GAS ANALYSIS REPORT

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

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

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

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

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

Field H2O (#/mm):

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

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

Z Factor (Dry): 0.9957190

Z Factor (Act.): 0.9957190

Dry BTU w/ H2S: 1347.07

Sat BTU w/ H2S: 1324.04

As Del. BTU w/ H2S: 1347.07

Dry BTU W/O H2S (Real): 1347.07**Sat. BTU W/O H2S (Real): 1324.04****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1347.07***BTU Calc: Dry***Sp. Gravity (Real): 0.7920**

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 7.725**GPM Propane+ (Real): 3.670****GPM IC5+ (Real): 0.645**

GPA 2145 / 2172

Fld. Remarks:**Lab Remarks:**

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GAS ANALYSIS REPORT

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

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

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

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

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

Field H2O (#/mm):

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

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

Z Factor (Dry): 0.9963536

Z Factor (Act.): 0.9963536

Dry BTU w/ H2S: 1132.15

Sat BTU w/ H2S: 1112.77

As Del. BTU w/ H2S: 1132.15

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

Field Gravity:

Lab Gravitometer:

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

GPA 2145 / 2172

Fld. Remarks:**Lab Remarks:**

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GAS ANALYSIS REPORT

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

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

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

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

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

Field H2O (#/mm):

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

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

Z Factor (Dry): 0.9966956

Z Factor (Act.): 0.9966956

Dry BTU w/ H2S: 1192.59

Sat BTU w/ H2S: 1172.16

As Del. BTU w/ H2S: 1192.59

Dry BTU W/O H2S (Real): 1192.52**Sat. BTU W/O H2S (Real): 1172.10****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1192.52***BTU Calc: Dry***Sp. Gravity (Real): 0.7202**

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 5.009**GPM Propane+ (Real): 2.201****GPM IC5+ (Real): 0.333**

GPA 2145 / 2172

Fld. Remarks:**Lab Remarks:**

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GAS ANALYSIS REPORT

Analysis No.: 344104
 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	2.2623	0.000	0.022		
Methane	78.3760	789.120	0.434		
CO2	1.1936	0.000	0.018		
Ethane	10.7099	188.940	0.111	2.857	
H2S	0.0100	0.000	0.000		
Propane	4.8638	121.995	0.074	1.337	
Iso-Butane	0.5354	17.356	0.011	0.175	
Butane	1.2308	40.027	0.025	0.387	
Iso-Pentane	0.2526	10.075	0.006	0.092	
Pentane	0.2405	9.611	0.006	0.087	
Hexanes C6+	0.3251	16.623	0.010	0.142	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1193.746	0.718	5.077	

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

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

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

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

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

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

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

Dry BTU W/O H2S (Real): 1197.72
Sat. BTU W/O H2S (Real): 1177.20
H2O (# / mmcf): 0.0
AS DEL. BTU W/O H2S (Real): 1197.72

BTU Calc: Dry

Sp. Gravity (Real): 0.7198
 Field Gravity:
 Lab Gravitometer:

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

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks:

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GAS ANALYSIS REPORT

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

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

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

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

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

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

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

Dry BTU w/ H2S: 1213.60

Sat BTU w/ H2S: 1192.82

As Del. BTU w/ H2S: 1213.60

Dry BTU W/O H2S (Real): 1213.60

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

H2O (# / mmcf): 0.0

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

BTU Calc: Dry

Sp. Gravity (Real): 0.7271

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 5.303

GPM Propane+ (Real): 2.394

GPM IC5+ (Real): 0.362

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks:

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GAS ANALYSIS REPORT

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

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

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

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

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

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

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

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

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

BTU Calc: Dry

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

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

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks:

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GAS ANALYSIS REPORT

Analysis No.: 344101
 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	2.0033	0.000	0.019		
Methane	74.4305	749.395	0.412		
CO2	3.3734	0.000	0.051		
Ethane	10.8469	191.357	0.113	2.895	
H2S	0.0200	0.000	0.000		
Propane	5.5649	139.580	0.085	1.530	
Iso-Butane	0.6896	22.355	0.014	0.225	
Butane	1.6218	52.742	0.033	0.510	
Iso-Pentane	0.4077	16.261	0.010	0.149	
Pentane	0.3785	15.125	0.009	0.137	
Hexanes C6+	0.6634	33.921	0.021	0.289	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1220.736	0.768	5.735	

Producer: Centennial
Well / Sta. Name: ERIC CARTMAN 6 STATE COM 502H
Sta. No.: N/L
Formation:
Field: New Mexico
County:
API Number: 3002550933

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

Sample Press. (PSIG): 171
 Line Press. (PSIG): 171
 Sample Temp. (F): 97
 Fl. Gas Temp. (F): 97
 Amb. Temp. (F): 56

Del. To:
 Sampled By: JL
 Cylinder No.: 741

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

Z Factor (Dry): 0.9962489
 Z Factor (Act.): 0.9962489

Dry BTU w/ H2S: 1225.46
 Sat BTU w/ H2S: 1204.49
 As Del. BTU w/ H2S: 1225.46

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

BTU Calc: Dry

Sp. Gravity (Real): 0.7704
 Field Gravity:
 Lab Gravitometer:

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

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks:

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GAS ANALYSIS REPORT

Analysis No.: 344100
 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	2.8058	0.000	0.027		
Methane	74.3167	748.249	0.412		
CO2	0.7007	0.000	0.011		
Ethane	12.1505	214.354	0.126	3.243	
H2S	0.0000	0.000	0.000		
Propane	6.1301	153.757	0.093	1.686	
Iso-Butane	0.7098	23.010	0.014	0.232	
Butane	1.7729	57.656	0.036	0.558	
Iso-Pentane	0.3806	15.180	0.009	0.139	
Pentane	0.4007	16.013	0.010	0.145	
Hexanes C6+	0.6322	32.325	0.020	0.275	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1260.544	0.759	6.278	

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

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

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

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

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

Field H2S (Grains): 0.0

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

Z Factor (Dry): 0.9962238

Z Factor (Act.): 0.9962238

Dry BTU w/ H2S: 1265.32

Sat BTU w/ H2S: 1243.67

As Del. BTU w/ H2S: 1265.32

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

Field Gravity:

Lab Gravitometer:

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

GPA 2145 / 2172

Fld. Remarks:**Lab Remarks:**

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GAS ANALYSIS REPORT

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

Producer:	Centennial
Well / Sta. Name:	Cheddar Fed Com 651H (FKA 602H)
Sta. No.:	48112
Formation:	
Field:	New Mexico
County:	
API Number:	3002546297
Spot / Composite:	SP
Date / Time On:	
Date / Time Off:	11/11/24
Date to Lab:	11/12/24
Date Analyzed:	11/19/24
Effective Date:	
Sample Press. (PSIG):	166
Line Press. (PSIG):	166
Sample Temp. (F):	88
Fl. Gas Temp. (F):	88
Amb. Temp. (F):	53
Del. To:	
Sampled By:	JL
Cylinder No.:	736

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

Field H2S (Grains): 0.0

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

Z Factor (Dry): 0.9962023

Z Factor (Act.): 0.9962023

Dry BTU w/ H2S: 1281.16

Sat BTU w/ H2S: 1259.23

As Del. BTU w/ H2S: 1281.16

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

Field Gravity:

Lab Gravitometer:

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

GPA 2145 / 2172

Fld. Remarks:**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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

GAS ANALYSIS REPORT

Analysis No.: 344098
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	3.4146	0.000	0.033		
Methane	70.1139	705.934	0.388		
CO2	7.8815	0.000	0.120		
Ethane	9.6691	170.578	0.100	2.581	
H2S	0.2400	0.000	0.003		
Propane	4.9413	123.939	0.075	1.359	
Iso-Butane	0.5898	19.120	0.012	0.193	
Butane	1.5739	51.185	0.032	0.495	
Iso-Pentane	0.4263	17.002	0.011	0.156	
Pentane	0.4394	17.559	0.011	0.159	
Hexanes C6+	0.7102	36.314	0.023	0.309	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1141.631	0.807	5.252	

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

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

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

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

Field H2O (#/mm):

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

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

Z Factor (Dry): 0.9962404

Z Factor (Act.): 0.9962404

Dry BTU w/ H2S: 1147.47

Sat BTU w/ H2S: 1127.83

As Del. BTU w/ H2S: 1147.47

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

Field Gravity:

Lab Gravitometer:

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

GPA 2145 / 2172

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

**ARMSTRONG GAS LABS, INC.**

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

GAS ANALYSIS REPORT

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

Producer: Centennial
Well / Sta. Name: WOODY 22 FEDERAL COM 502H
Sta. No.: 230599648
Formation:
Field: New Mexico
County:
API Number: 3002551395

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

Sample Press. (PSIG): 107
 Line Press. (PSIG): 107
 Sample Temp. (F): 93
 Fl. Gas Temp. (F): 93
 Amb. Temp. (F): 64

Del. To:
 Sampled By: RO
 Cylinder No.: AGL-843

Field H2O (#/mm):

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

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

Z Factor (Dry): 0.9957926

Z Factor (Act.): 0.9957926

Dry BTU w/ H2S: 1319.71

Sat BTU w/ H2S: 1297.14

As Del. BTU w/ H2S: 1319.71

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

Field Gravity:

Lab Gravitometer:

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

GPA 2145 / 2172

Fld. Remarks:**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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GAS ANALYSIS REPORT

Analysis No.: 142277
 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	2.3179	0.000	0.022		
Methane	76.6370	771.611	0.424		
CO2	0.3607	0.000	0.005		
Ethane	11.5162	203.164	0.120	3.074	
H2S	0.0010	0.000	0.000		
Propane	5.3803	134.950	0.082	1.479	
Iso-Butane	0.6752	21.888	0.014	0.221	
Butane	1.7543	57.051	0.035	0.552	
Iso-Pentane	0.4029	16.069	0.010	0.147	
Pentane	0.4049	16.180	0.010	0.146	
Hexanes C6+	0.5496	28.102	0.018	0.239	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1249.016	0.740	5.858	

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

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

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

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

Field H2O (#/mm):

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

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

Z Factor (Dry): 0.9963680

Z Factor (Act.): 0.9963680

Dry BTU w/ H2S: 1253.58

Sat BTU w/ H2S: 1232.12

As Del. BTU w/ H2S: 1253.58

Dry BTU W/O H2S (Real): 1253.57**Sat. BTU W/O H2S (Real): 1232.11****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1253.57***BTU Calc: Dry***Sp. Gravity (Real): 0.7428**

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 5.858**GPM Propane+ (Real): 2.784****GPM IC5+ (Real): 0.532**

GPA 2145 / 2172

Fld. Remarks:**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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

GAS ANALYSIS REPORT

Analysis No.: 142276
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	(Ideal) <u>BTU</u>	(Ideal) <u>SG</u>	(Real) <u>GPM</u>	
Nitrogen	1.4635	0.000	0.014		Producer:
Methane	73.7364	742.407	0.408		Well / Sta. Name: CATTLEMAN FED COM CHECK METER
CO2	6.3480	0.000	0.096		Sta. No.: Sales
Ethane	9.7240	171.547	0.101	2.595	Formation:
H2S	0.0005	0.000	0.000		Field: New Mexico
Propane	5.1321	128.725	0.078	1.411	County:
Iso-Butane	0.7267	23.558	0.015	0.237	API Number: N/L
Butane	1.6118	52.417	0.032	0.507	Spot / Composite: SP
Iso-Pentane	0.4050	16.153	0.010	0.148	Date / Time On:
Pentane	0.3659	14.622	0.009	0.132	Date / Time Off: 11/09/24
Hexanes C6+	0.4861	24.855	0.016	0.212	Date to Lab: 11/13/24
					Date Analyzed: 11/19/24
					Effective Date:
Hydrogen	N/A				Sample Press. (PSIG): 149
Helium	N/A				Line Press. (PSIG): 149
Oxygen	N/A				Sample Temp. (F): 70
CO	N/A				Fl. Gas Temp. (F): 70
					Amb. Temp. (F): 29
Totals	100.0000	1174.283	0.780	5.242	Del. To:
					Sampled By: JL
					Cylinder No.: 717

Field H2O (#/mm):

Field H2S (PPM): 5.0

Field H2S (Grains): 0.31

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

Z Factor (Dry): 0.9962943

Z Factor (Act.): 0.9962943

Dry BTU w/ H2S: 1178.65

Sat BTU w/ H2S: 1158.48

As Del. BTU w/ H2S: 1178.65

Dry BTU W/O H2S (Real): 1178.65**Sat. BTU W/O H2S (Real): 1158.48****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1178.65***BTU Calc: Dry***Sp. Gravity (Real): 0.7825**

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 5.242**GPM Propane+ (Real): 2.647****GPM IC5+ (Real): 0.492**

GPA 2145 / 2172

Fld. Remarks: TAG: NO API PER WHITNEY**Lab Remarks: CP @ LAB 168 PSIG**

**ARMSTRONG GAS LABS, INC.**

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GAS ANALYSIS REPORT

Analysis No.: 142275
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	2.8504	0.000	0.028		
Methane	74.5873	750.974	0.413		
CO2	0.4781	0.000	0.007		
Ethane	11.8145	208.427	0.123	3.154	
H2S	0.0000	0.000	0.000		
Propane	6.0182	150.950	0.092	1.655	
Iso-Butane	0.7362	23.866	0.015	0.240	
Butane	1.8963	61.669	0.038	0.597	
Iso-Pentane	0.4329	17.266	0.011	0.158	
Pentane	0.4670	18.662	0.012	0.169	
Hexanes C6+	0.7191	36.769	0.023	0.313	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1268.582	0.761	6.286	

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

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

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

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

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

Field H2S (Grains): 0.0

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

Z Factor (Dry): 0.9961832

Z Factor (Act.): 0.9961832

Dry BTU w/ H2S: 1273.44

Sat BTU w/ H2S: 1251.65

As Del. BTU w/ H2S: 1273.44

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

Field Gravity:

Lab Gravitometer:

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

GPA 2145 / 2172

Fld. Remarks:**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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

GAS ANALYSIS REPORT

Analysis No.: 142274
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	3.7174	0.000	0.036		
Methane	73.9259	744.314	0.409		
CO2	0.5170	0.000	0.008		
Ethane	12.0287	212.206	0.125	3.210	
H2S	0.0060	0.000	0.000		
Propane	6.0675	152.187	0.092	1.668	
Iso-Butane	0.6435	20.860	0.013	0.210	
Butane	1.7177	55.861	0.034	0.540	
Iso-Pentane	0.3885	15.495	0.010	0.142	
Pentane	0.3975	15.885	0.010	0.144	
Hexanes C6+	0.5903	30.183	0.019	0.257	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1246.991	0.757	6.171	

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

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

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

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

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

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

Dry BTU w/ H2S: 1251.65

Sat BTU w/ H2S: 1230.23

As Del. BTU w/ H2S: 1251.65

Dry BTU W/O H2S (Real): 1251.61

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

H2O (# / mmcf): 0.0

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

BTU Calc: Dry

Sp. Gravity (Real): 0.7591

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 6.171

GPM Propane+ (Real): 2.961

GPM IC5+ (Real): 0.543

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks:

**ARMSTRONG GAS LABS, INC.**

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

GAS ANALYSIS REPORT

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

Producer:	Centennial
Well / Sta. Name:	WOODY 22 FEDERAL COM 504H
Sta. No.:	231105838
Formation:	
Field:	New Mexico
County:	
API Number:	3002551397
Spot / Composite:	SP
Date / Time On:	
Date / Time Off:	11/11/24
Date to Lab:	11/12/24
Date Analyzed:	11/19/24
Effective Date:	
Sample Press. (PSIG):	105
Line Press. (PSIG):	105
Sample Temp. (F):	94
Fl. Gas Temp. (F):	94
Amb. Temp. (F):	74
Del. To:	
Sampled By:	RO
Cylinder No.:	AGL-790

Field H2O (#/mm):

Field H2S (PPM): 20.0

Field H2S (Grains): 1.26

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

Z Factor (Dry): 0.9955899

Z Factor (Act.): 0.9955899

Dry BTU w/ H2S: 1341.65

Sat BTU w/ H2S: 1318.72

As Del. BTU w/ H2S: 1341.65

Dry BTU W/O H2S (Real): 1341.64**Sat. BTU W/O H2S (Real): 1318.70****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1341.64***BTU Calc: Dry***Sp. Gravity (Real): 0.8168**

Field Gravity:

Lab Gravitometer:

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

GPA 2145 / 2172

Fld. Remarks:**Lab Remarks:**

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

For inquiries regarding this filing, please contact the operator.

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

General Information
Phone: (505) 629-6116

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

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

DEFINITIONS

Action 449662

DEFINITIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 449662
	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 449662

QUESTIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 449662
	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	[fAPP2220946441] Chorizo 36 CTB 1

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	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 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	73
Nitrogen (N2) percentage, if greater than one percent	3
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	6
Oxygen (O2) percentage, if greater than one percent	0
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
Methane (CH4) percentage quality requirement	Not answered.
Nitrogen (N2) percentage quality requirement	Not answered.
Hydrogen Sulfide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (CO2) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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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 449662

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 449662
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	03/30/2025
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	18

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 Separator Natural Gas Flared Released: 83 Mcf Recovered: 0 Mcf Lost: 83 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	Lowered heater pressure because recirculation pump was dead heading. Lower heater pressure was unable to sell to Northwind. Once tanks levels were brought down pressure was heater pressure increased and flare has been managed. We began selling to NWM over DKL which has a much higher line pressure.
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 449662

ACKNOWLEDGMENTS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 449662
	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 449662

CONDITIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 449662
	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.	4/8/2025