**ARMSTRONG GAS LABS, INC.**

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

GAS ANALYSIS REPORT

Analysis No.: 441437
 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	1.6284	0.000	0.016		
Methane	75.8166	763.351	0.420		
CO2	0.1620	0.000	0.002		
Ethane	12.3127	217.216	0.128	3.287	
H2S	0.0002	0.000	0.000		
Propane	6.2385	156.476	0.095	1.715	
Iso-Butane	0.7830	25.383	0.016	0.256	
Butane	1.7888	58.173	0.036	0.563	
Iso-Pentane	0.3755	14.976	0.009	0.137	
Pentane	0.3590	14.346	0.009	0.130	
Hexanes C6+	0.5353	27.371	0.017	0.233	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1277.292	0.748	6.321	
					Producer: Centennial Well / Sta. Name: Crunch Berry 7 Federal Com 601H Sta. No.: N/L Formation: Field: New Mexico County: API Number: 3002547118 Spot / Composite: SP Date / Time On: Date / Time Off: 06/11/24 Date to Lab: 06/25/24 Date Analyzed: 06/26/24 Effective Date: Sample Press. (PSIG): 124 Line Press. (PSIG): 124 Sample Temp. (F): 92 Fl. Gas Temp. (F): 92 Amb. Temp. (F): 76 Del. To: Sampled By: EL Cylinder No.: 710

Field H2O (#/mm):

Field H2S (PPM): 2.0
 Field H2S (Grains): 0.13

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

Z Factor (Dry): 0.9962139

Z Factor (Act.): 0.9962139

Dry BTU w/ H2S: 1282.15

Sat BTU w/ H2S: 1260.20

As Del. BTU w/ H2S: 1282.15

Dry BTU W/O H2S (Real): 1282.15**Sat. BTU W/O H2S (Real): 1260.20****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1282.15***BTU Calc: Dry***Sp. Gravity (Real): 0.7506**

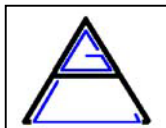
Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 6.321**GPM Propane+ (Real): 3.034****GPM IC5+ (Real): 0.500**

GPA 2145 / 2172

Fld. Remarks:**Lab Remarks:**

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GAS ANALYSIS REPORT

Analysis No.: 441438
 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	1.7274	0.000	0.017		
Methane	76.0802	766.005	0.421		
CO2	0.1553	0.000	0.002		
Ethane	11.6756	205.976	0.121	3.116	
H2S	0.0026	0.000	0.000		
Propane	6.4301	161.281	0.098	1.768	
Iso-Butane	0.8537	27.675	0.017	0.279	
Butane	1.8909	61.494	0.038	0.595	
Iso-Pentane	0.3483	13.892	0.009	0.127	
Pentane	0.3287	13.135	0.008	0.119	
Hexanes C6+	0.5072	25.934	0.016	0.221	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1275.392	0.748	6.225	

Producer: Centennial
Well / Sta. Name: Crunch Berry 7 Federal Com 602H
Sta. No.: N/L
Formation:
Field: New Mexico
County:
API Number: 3002547119

Spot / Composite: SP
 Date / Time On:
 Date / Time Off: 06/11/24
 Date to Lab: 06/25/24
 Date Analyzed: 06/26/24
 Effective Date:

Sample Press. (PSIG): 135
 Line Press. (PSIG): 135
 Sample Temp. (F): 94
 Fl. Gas Temp. (F): 94
 Amb. Temp. (F): 76

Del. To:
 Sampled By: EL
 Cylinder No.: 856

Field H2O (#/mm):

Field H2S (PPM): 26.0
 Field H2S (Grains): 1.64

Pressure Base: 14.65
Temp. Base: 60

Z Factor (Dry): 0.9962281
 Z Factor (Act.): 0.9962281

Dry BTU w/ H2S: 1280.24

Sat BTU w/ H2S: 1258.33

As Del. BTU w/ H2S: 1280.24

Dry BTU W/O H2S (Real): 1280.22

Sat. BTU W/O H2S (Real): 1258.31

H2O (# / mmcf): 0.0

AS DEL. BTU W/O H2S (Real): 1280.22

BTU Calc: Dry

Sp. Gravity (Real): 0.7504

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 6.225

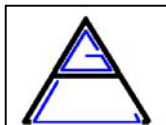
GPM Propane+ (Real): 3.109

GPM IC5+ (Real): 0.467

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks:

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GAS ANALYSIS REPORT

Analysis No.: 441439
 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	4.6999	0.000	0.045		
Methane	68.0159	684.810	0.377		
CO2	11.4331	0.000	0.174		
Ethane	8.4153	148.459	0.087	2.246	
H2S	0.0060	0.000	0.000		
Propane	4.4282	111.069	0.067	1.217	
Iso-Butane	0.5089	16.497	0.010	0.166	
Butane	1.2887	41.910	0.026	0.405	
Iso-Pentane	0.3586	14.302	0.009	0.131	
Pentane	0.3576	14.290	0.009	0.129	
Hexanes C6+	0.4878	24.942	0.016	0.212	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1056.280	0.820	4.506	

Producer: Centennial
Well / Sta. Name: Raider Fed Com 102H
Sta. No.: T231511721
Formation:
Field: New Mexico
County:
API Number: 3002551621

Spot / Composite: SP
 Date / Time On:
 Date / Time Off: 06/21/24
 Date to Lab: 06/25/24
 Date Analyzed: 06/26/24
 Effective Date:

Sample Press. (PSIG): 153
 Line Press. (PSIG): 153
 Sample Temp. (F): 81
 Fl. Gas Temp. (F): 81
 Amb. Temp. (F): 71

Del. To:
 Sampled By: IF
 Cylinder No.: 864

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

Z Factor (Dry): 0.9964609
 Z Factor (Act.): 0.9964609

Dry BTU w/ H2S: 1060.07
 Sat BTU w/ H2S: 1041.92
 As Del. BTU w/ H2S: 1060.07

Dry BTU W/O H2S (Real): 1060.03

Sat. BTU W/O H2S (Real): 1041.88

H2O (# / mmcf): 0.0

AS DEL. BTU W/O H2S (Real): 1060.03

BTU Calc: Dry

Sp. Gravity (Real): 0.8230

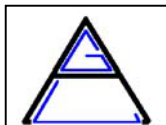
Field Gravity:
 Lab Gravitometer:

GPM Ethane+ (Real): 4.506
GPM Propane+ (Real): 2.260
GPM IC5+ (Real): 0.472

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks: CP @ LAB 60 PSIG

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GAS ANALYSIS REPORT

Analysis No.: 441440
 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	2.2262	0.000	0.022		
Methane	80.6241	811.755	0.447		
CO2	2.2700	0.000	0.034		
Ethane	7.9278	139.859	0.082	2.115	
H2S	0.0100	0.000	0.000		
Propane	3.9455	98.962	0.060	1.084	
Iso-Butane	0.5439	17.632	0.011	0.178	
Butane	1.2576	40.898	0.025	0.395	
Iso-Pentane	0.3486	13.903	0.009	0.127	
Pentane	0.3242	12.956	0.008	0.117	
Hexanes C6+	0.5221	26.696	0.017	0.227	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1162.661	0.715	4.243	

Producer: Centennial
Well / Sta. Name: Pac-Man 36 Fed Com 503H
Sta. No.: 48191
Formation:
Field: New Mexico
County:
API Number: 3002547070

Spot / Composite: SP
 Date / Time On:
 Date / Time Off: 06/24/24
 Date to Lab: 06/25/24
 Date Analyzed: 06/26/24
 Effective Date:

Sample Press. (PSIG): 172
 Line Press. (PSIG): 172
 Sample Temp. (F): 93
 Fl. Gas Temp. (F): 93
 Amb. Temp. (F): 82

Del. To:
 Sampled By: EL
 Cylinder No.: 110

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

Z Factor (Dry): 0.9967776
 Z Factor (Act.): 0.9967776

Dry BTU w/ H2S: 1166.48

Sat BTU w/ H2S: 1146.50

As Del. BTU w/ H2S: 1166.48

Dry BTU W/O H2S (Real): 1166.42

Sat. BTU W/O H2S (Real): 1146.43

H2O (# / mmcf): 0.0

AS DEL. BTU W/O H2S (Real): 1166.42

BTU Calc: Dry

Sp. Gravity (Real): 0.7168

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 4.243

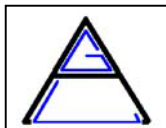
GPM Propane+ (Real): 2.128

GPM IC5+ (Real): 0.471

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks:

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GAS ANALYSIS REPORT

Analysis No.: 441441
 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	1.5311	0.000	0.015		
Methane	71.7032	721.935	0.397		
CO2	0.2200	0.000	0.003		
Ethane	13.5439	238.936	0.141	3.618	
H2S	0.0000	0.000	0.000		
Propane	7.5834	190.209	0.115	2.086	
Iso-Butane	0.8698	28.196	0.017	0.284	
Butane	2.4329	79.120	0.049	0.766	
Iso-Pentane	0.5335	21.278	0.013	0.195	
Pentane	0.6130	24.496	0.015	0.222	
Hexanes C6+	0.9692	49.557	0.031	0.422	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1353.728	0.797	7.593	

Producer: Centennial
Well / Sta. Name: EL CAMPEON FEDERAL COM 512H
Sta. No.: N/L
Formation:
Field: New Mexico
County:
API Number: 3002548138

Spot / Composite: SP
 Date / Time On:
 Date / Time Off: 06/21/24
 Date to Lab: 06/24/24
 Date Analyzed: 06/26/24
 Effective Date:

Sample Press. (PSIG): 174
 Line Press. (PSIG): 174
 Sample Temp. (F): 111
 Fl. Gas Temp. (F): 111
 Amb. Temp. (F): 72

Del. To:
 Sampled By: JL
 Cylinder No.: 773

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

Field H2S (Grains): 0.0

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

Z Factor (Dry): 0.9956021

Z Factor (Act.): 0.9956021

Dry BTU w/ H2S: 1359.71

Sat BTU w/ H2S: 1336.46

As Del. BTU w/ H2S: 1359.71

Dry BTU W/O H2S (Real): 1359.71**Sat. BTU W/O H2S (Real):** 1336.46**H2O (# / mmcf):** 0.0**AS DEL. BTU W/O H2S (Real):** 1359.71*BTU Calc: Dry***Sp. Gravity (Real):** 0.8006

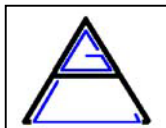
Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 7.593**GPM Propane+ (Real):** 3.975**GPM IC5+ (Real):** 0.839

GPA 2145 / 2172

Fld. Remarks:**Lab Remarks:**

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GAS ANALYSIS REPORT

Analysis No.: 441442
 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	1.4579	0.000	0.014		
Methane	71.5156	720.047	0.396		
CO2	0.9059	0.000	0.014		
Ethane	13.8649	244.599	0.144	3.703	
H2S	0.0001	0.000	0.000		
Propane	7.7132	193.464	0.117	2.122	
Iso-Butane	0.7980	25.869	0.016	0.261	
Butane	2.1493	69.897	0.043	0.677	
Iso-Pentane	0.4118	16.424	0.010	0.150	
Pentane	0.4737	18.930	0.012	0.171	
Hexanes C6+	0.7096	36.283	0.023	0.309	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1325.513	0.789	7.393	

Producer: Centennial
Well / Sta. Name: EL CAMPEON FEDERAL COM 412H
Sta. No.: N/L
Formation:
Field: New Mexico
County:
API Number: 3002548136

Spot / Composite: SP
 Date / Time On:
 Date / Time Off: 06/21/24
 Date to Lab: 06/24/24
 Date Analyzed: 06/26/24
 Effective Date:

Sample Press. (PSIG): 174
 Line Press. (PSIG): 174
 Sample Temp. (F): 106
 Fl. Gas Temp. (F): 106
 Amb. Temp. (F): 72

Del. To:
 Sampled By: JL
 Cylinder No.: 663

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

Z Factor (Dry): 0.9957598
 Z Factor (Act.): 0.9957598

Dry BTU w/ H2S: 1331.16

Sat BTU w/ H2S: 1308.40

As Del. BTU w/ H2S: 1331.16

Dry BTU W/O H2S (Real): 1331.16

Sat. BTU W/O H2S (Real): 1308.39

H2O (# / mmcf): 0.0

AS DEL. BTU W/O H2S (Real): 1331.16

BTU Calc: Dry

Sp. Gravity (Real): 0.7925

Field Gravity:
 Lab Gravitometer:

GPM Ethane+ (Real): 7.393

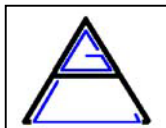
GPM Propane+ (Real): 3.690

GPM IC5+ (Real): 0.630

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks:

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GAS ANALYSIS REPORT

Analysis No.: 441443
 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	1.4543	0.000	0.014		
Methane	71.6258	721.156	0.397		
CO2	0.2889	0.000	0.004		
Ethane	14.0592	248.027	0.146	3.755	
H2S	0.0001	0.000	0.000		
Propane	7.6311	191.405	0.116	2.099	
Iso-Butane	0.8118	26.316	0.016	0.265	
Butane	2.3087	75.081	0.046	0.727	
Iso-Pentane	0.4691	18.709	0.012	0.171	
Pentane	0.5523	22.071	0.014	0.200	
Hexanes C6+	0.7987	40.839	0.026	0.348	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1343.605	0.791	7.565	

Producer: Centennial
Well / Sta. Name: EL CAMPEON SOUTH FEDERAL COM 431H
Sta. No.: N/L
Formation:
Field: New Mexico
County:
API Number: 3002547828

Spot / Composite: SP
 Date / Time On:
 Date / Time Off: 06/21/24
 Date to Lab: 06/24/24
 Date Analyzed: 06/26/24
 Effective Date:

Sample Press. (PSIG): 176
 Line Press. (PSIG): 176
 Sample Temp. (F): 113
 Fl. Gas Temp. (F): 113
 Amb. Temp. (F): 96

Del. To:
 Sampled By: RO
 Cylinder No.: AGL-836

Field H2O (#/mm):

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

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

Z Factor (Dry): 0.9956854

Z Factor (Act.): 0.9956854

Dry BTU w/ H2S: 1349.43

Sat BTU w/ H2S: 1326.36

As Del. BTU w/ H2S: 1349.43

Dry BTU W/O H2S (Real): 1349.43**Sat. BTU W/O H2S (Real): 1326.35****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1349.43***BTU Calc: Dry***Sp. Gravity (Real): 0.7942**

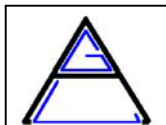
Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 7.565**GPM Propane+ (Real): 3.810****GPM IC5+ (Real): 0.719**

GPA 2145 / 2172

Fld. Remarks:**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

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GAS ANALYSIS REPORT

Analysis No.: 441444
 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	1.4345	0.000	0.014		
Methane	72.2809	727.752	0.400		
CO2	0.4786	0.000	0.007		
Ethane	13.6044	240.003	0.141	3.633	
H2S	0.0004	0.000	0.000		
Propane	7.3472	184.284	0.112	2.021	
Iso-Butane	0.8087	26.216	0.016	0.264	
Butane	2.2419	72.909	0.045	0.706	
Iso-Pentane	0.4710	18.785	0.012	0.172	
Pentane	0.5386	21.523	0.013	0.195	
Hexanes C6+	0.7938	40.588	0.026	0.346	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1332.061	0.787	7.337	

Producer: Centennial
Well / Sta. Name: EL CAMPEON FEDERAL COM #401H
Sta. No.: N/L
Formation:
Field: New Mexico
County:
API Number: 3002548143

Spot / Composite: SP
 Date / Time On:
 Date / Time Off: 06/21/24
 Date to Lab: 06/24/24
 Date Analyzed: 06/26/24
 Effective Date:

Sample Press. (PSIG): 176
 Line Press. (PSIG): 176
 Sample Temp. (F): 112
 Fl. Gas Temp. (F): 112
 Amb. Temp. (F): 93

Del. To:
 Sampled By: RO
 Cylinder No.: AGL-153

Field H2O (#/mm):

Field H2S (PPM): 4.0
 Field H2S (Grains): 0.25

Pressure Base: 14.65
Temp. Base: 60

Z Factor (Dry): 0.9957549
 Z Factor (Act.): 0.9957549

Dry BTU w/ H2S: 1337.74

Sat BTU w/ H2S: 1314.87

As Del. BTU w/ H2S: 1337.74

Dry BTU W/O H2S (Real): 1337.74

Sat. BTU W/O H2S (Real): 1314.86

H2O (# / mmcf): 0.0

AS DEL. BTU W/O H2S (Real): 1337.74

BTU Calc: Dry

Sp. Gravity (Real): 0.7896

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 7.337

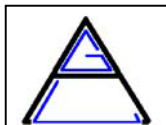
GPM Propane+ (Real): 3.704

GPM IC5+ (Real): 0.713

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks:

**ARMSTRONG GAS LABS, INC.**

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GAS ANALYSIS REPORT

Analysis No.: 441445
 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	1.4739	0.000	0.014		
Methane	70.4498	709.316	0.390		
CO2	0.2103	0.000	0.003		
Ethane	14.2029	250.562	0.147	3.794	
H2S	0.0002	0.000	0.000		
Propane	8.0713	202.446	0.123	2.221	
Iso-Butane	0.9081	29.438	0.018	0.297	
Butane	2.5736	83.696	0.052	0.810	
Iso-Pentane	0.5425	21.637	0.014	0.198	
Pentane	0.6335	25.316	0.016	0.229	
Hexanes C6+	0.9339	47.752	0.030	0.407	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1370.162	0.807	7.956	

Producer: Centennial
Well / Sta. Name: EL CAMPEON FEDERAL COM #511H
Sta. No.: N/L
Formation:
Field: New Mexico
County:
API Number: 3002548141

Spot / Composite: SP
 Date / Time On:
 Date / Time Off: 06/21/24
 Date to Lab: 06/24/24
 Date Analyzed: 06/26/24
 Effective Date:

Sample Press. (PSIG): 179
 Line Press. (PSIG): 179
 Sample Temp. (F): 121
 Fl. Gas Temp. (F): 121
 Amb. Temp. (F): 91

Del. To:
 Sampled By: RO
 Cylinder No.: AGL-858

Field H2O (#/mm):

Field H2S (PPM): 1.5
 Field H2S (Grains): 0.09

Pressure Base: 14.65
Temp. Base: 60

Z Factor (Dry): 0.9954761
 Z Factor (Act.): 0.9954761

Dry BTU w/ H2S: 1376.39

Sat BTU w/ H2S: 1352.87

As Del. BTU w/ H2S: 1376.39

Dry BTU W/O H2S (Real): 1376.39

Sat. BTU W/O H2S (Real): 1352.86

H2O (# / mmcf): 0.0

AS DEL. BTU W/O H2S (Real): 1376.39

BTU Calc: Dry

Sp. Gravity (Real): 0.8106

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 7.956

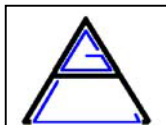
GPM Propane+ (Real): 4.162

GPM IC5+ (Real): 0.834

GPA 2145 / 2172

Fld. Remarks: HIGH TEMP

Lab Remarks:

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

GAS ANALYSIS REPORT

Analysis No.: 441446
 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	1.4418	0.000	0.014		
Methane	73.0462	735.457	0.405		
CO2	0.9449	0.000	0.014		
Ethane	13.5942	239.824	0.141	3.629	
H2S	0.0005	0.000	0.000		
Propane	7.1441	179.190	0.109	1.965	
Iso-Butane	0.7152	23.185	0.014	0.234	
Butane	1.8626	60.573	0.037	0.586	
Iso-Pentane	0.3422	13.648	0.009	0.125	
Pentane	0.3836	15.329	0.010	0.139	
Hexanes C6+	0.5247	26.829	0.017	0.229	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1294.035	0.770	6.907	

Producer:	Centennial
Well / Sta. Name:	EL CAMPEON FEDERAL COM 433H
Sta. No.:	N/L
Formation:	
Field:	New Mexico
County:	
API Number:	3002548112
Spot / Composite:	SP
Date / Time On:	
Date / Time Off:	06/20/24
Date to Lab:	06/24/24
Date Analyzed:	06/26/24
Effective Date:	
Sample Press. (PSIG):	181
Line Press. (PSIG):	181
Sample Temp. (F):	97
Fl. Gas Temp. (F):	97
Amb. Temp. (F):	78
Del. To:	
Sampled By:	RO
Cylinder No.:	AGL-853

Field H2O (#/mm):

Field H2S (PPM): 5.0

Field H2S (Grains): 0.31

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

Z Factor (Dry): 0.9960069

Z Factor (Act.): 0.9960069

Dry BTU w/ H2S: 1299.23

Sat BTU w/ H2S: 1277.00

As Del. BTU w/ H2S: 1299.23

Dry BTU W/O H2S (Real): 1299.22**Sat. BTU W/O H2S (Real): 1277.00****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1299.22***BTU Calc: Dry***Sp. Gravity (Real): 0.7723**

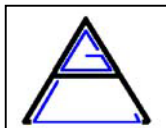
Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 6.907**GPM Propane+ (Real): 3.278****GPM IC5+ (Real): 0.493**

GPA 2145 / 2172

Fld. Remarks:**Lab Remarks:**

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GAS ANALYSIS REPORT

Analysis No.: 441447
 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	1.4656	0.000	0.014		
Methane	72.1775	726.711	0.400		
CO2	0.8662	0.000	0.013		
Ethane	13.7089	241.847	0.142	3.661	
H2S	0.0003	0.000	0.000		
Propane	7.4424	186.672	0.113	2.047	
Iso-Butane	0.7799	25.282	0.016	0.255	
Butane	2.0532	66.772	0.041	0.646	
Iso-Pentane	0.3962	15.802	0.010	0.145	
Pentane	0.4440	17.743	0.011	0.161	
Hexanes C6+	0.6658	34.043	0.021	0.290	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1314.872	0.782	7.205	

Producer: Centennial
Well / Sta. Name: EL CAMPEON FEDERAL COM 513Y
Sta. No.: N/L
Formation:
Field: New Mexico
County:
API Number: 3002548139

Spot / Composite: SP
 Date / Time On:
 Date / Time Off: 06/20/24
 Date to Lab: 06/24/24
 Date Analyzed: 06/26/24
 Effective Date:

Sample Press. (PSIG): 182
 Line Press. (PSIG): 182
 Sample Temp. (F): 112
 Fl. Gas Temp. (F): 112
 Amb. Temp. (F): 86

Del. To:
 Sampled By: RO
 Cylinder No.: AGL-861

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

Z Factor (Dry): 0.9958489
 Z Factor (Act.): 0.9958489

Dry BTU w/ H2S: 1320.36
 Sat BTU w/ H2S: 1297.77
 As Del. BTU w/ H2S: 1320.36

Dry BTU W/O H2S (Real): 1320.35

Sat. BTU W/O H2S (Real): 1297.77

H2O (# / mmcf): 0.0

AS DEL. BTU W/O H2S (Real): 1320.35

BTU Calc: Dry

Sp. Gravity (Real): 0.7849

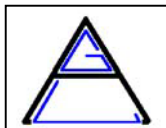
Field Gravity:
 Lab Gravitometer:

GPM Ethane+ (Real): 7.205
GPM Propane+ (Real): 3.544
GPM IC5+ (Real): 0.596

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks:

**ARMSTRONG GAS LABS, INC.**

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GAS ANALYSIS REPORT

Analysis No.: 441472
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
Nitrogen	0.4474	0.000	0.004		
Methane	35.1941	354.348	0.195		
CO2	6.5419	0.000	0.099		
Ethane	20.8747	368.263	0.217	5.606	
H2S	0.2200	0.000	0.003		
Propane	20.6508	517.968	0.314	5.713	
Iso-Butane	3.2997	106.967	0.066	1.084	
Butane	8.2392	267.946	0.165	2.608	
Iso-Pentane	1.8911	75.424	0.047	0.695	
Pentane	1.5887	63.487	0.040	0.578	
Hexanes C6+	1.0524	53.811	0.034	0.461	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1808.215	1.184	16.745	

Producer: Centennial
Well / Sta. Name: Donkey Kong 602-503 VRU
Sta. No.: 9667
Formation:
Field: New Mexico
County:
API Number: N/L

Spot / Composite: SP
 Date / Time On:
 Date / Time Off: 06/21/24
 Date to Lab: 06/25/24
 Date Analyzed: 06/27/24
 Effective Date:

Sample Press. (PSIG): 112
 Line Press. (PSIG): 112
 Sample Temp. (F): 106
 Fl. Gas Temp. (F): 106
 Amb. Temp. (F): 71

Del. To:
 Sampled By: JH
 Cylinder No.: 811

Field H2O (#/mm):

Field H2S (PPM): 2,200.0
 Field H2S (Grains): 138.45

Pressure Base: 14.65
Temp. Base: 60

Z Factor (Dry): 0.9902080
 Z Factor (Act.): 0.9902079

Dry BTU w/ H2S: 1827.50

Sat BTU w/ H2S: 1796.41

As Del. BTU w/ H2S: 1827.51

Dry BTU W/O H2S (Real): 1826.09

Sat. BTU W/O H2S (Real): 1795.02

H2O (# / mmcf): 0.0

AS DEL. BTU W/O H2S (Real): 1826.10

BTU Calc: Dry

Sp. Gravity (Real): 1.1957

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 16.745

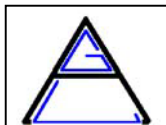
GPM Propane+ (Real): 11.139

GPM IC5+ (Real): 1.734

GPA 2145 / 2172

Fld. Remarks: TAG: NO API PER WHITNEY

Lab Remarks:

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GAS ANALYSIS REPORT

Analysis No.: 441473
 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	2.0646	0.000	0.020		
Methane	79.5047	800.484	0.440		
CO2	2.3645	0.000	0.036		
Ethane	8.1888	144.464	0.085	2.185	
H2S	0.0005	0.000	0.000		
Propane	4.2974	107.788	0.065	1.181	
Iso-Butane	0.6226	20.183	0.012	0.203	
Butane	1.4512	47.194	0.029	0.456	
Iso-Pentane	0.4213	16.803	0.010	0.154	
Pentane	0.3909	15.621	0.010	0.141	
Hexanes C6+	0.6935	35.460	0.022	0.302	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1187.997	0.731	4.622	

Producer: Centennial
Well / Sta. Name: Pacman Sour FMP
Sta. No.: 95905
Formation:
Field: New Mexico
County:
API Number: N/L

Spot / Composite: SP
 Date / Time On:
 Date / Time Off: 06/26/24
 Date to Lab: 06/26/24
 Date Analyzed: 06/27/24
 Effective Date:

Sample Press. (PSIG): 122
 Line Press. (PSIG): 122
 Sample Temp. (F): 108
 Fl. Gas Temp. (F): 108
 Amb. Temp. (F): 98

Del. To:
 Sampled By: JL
 Cylinder No.: 665

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

Z Factor (Dry): 0.9965927
 Z Factor (Act.): 0.9965927

Dry BTU w/ H2S: 1192.06

Sat BTU w/ H2S: 1171.65

As Del. BTU w/ H2S: 1192.06

Dry BTU W/O H2S (Real): 1192.06

Sat. BTU W/O H2S (Real): 1171.64

H2O (# / mmcf): 0.0

AS DEL. BTU W/O H2S (Real): 1192.06

BTU Calc: Dry

Sp. Gravity (Real): 0.7331

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 4.622

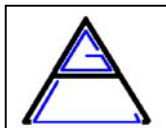
GPM Propane+ (Real): 2.437

GPM IC5+ (Real): 0.597

GPA 2145 / 2172

Fld. Remarks: TAG: NO API PER WHITNEY

Lab Remarks:

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GAS ANALYSIS REPORT

Analysis No.: 441474
 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	3.6146	0.000	0.035		
Methane	68.8639	693.348	0.381		
CO2	11.0335	0.000	0.168		
Ethane	8.7021	153.519	0.090	2.322	
H2S	0.0900	0.000	0.001		
Propane	4.5772	114.806	0.070	1.258	
Iso-Butane	0.5745	18.624	0.012	0.188	
Butane	1.3804	44.892	0.028	0.434	
Iso-Pentane	0.3800	15.156	0.009	0.139	
Pentane	0.3568	14.258	0.009	0.129	
Hexanes C6+	0.4270	21.833	0.014	0.186	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1076.437	0.816	4.656	

Producer: Centennial
Well / Sta. Name: SHEBA FEDERAL COM #107H
Sta. No.: T231308183
Formation:
Field: New Mexico
County:
API Number: 3002551631

Spot / Composite: SP
 Date / Time On:
 Date / Time Off: 06/25/24
 Date to Lab: 06/25/24
 Date Analyzed: 06/27/24
 Effective Date:

Sample Press. (PSIG): 157
 Line Press. (PSIG): 157
 Sample Temp. (F): 89
 Fl. Gas Temp. (F): 89
 Amb. Temp. (F): 98

Del. To:
 Sampled By: JH
 Cylinder No.: 767

Field H2O (#/mm):

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

Pressure Base: 14.65
Temp. Base: 60

Z Factor (Dry): 0.9963951
 Z Factor (Act.): 0.9963951

Dry BTU w/ H2S: 1080.91

Sat BTU w/ H2S: 1062.40

As Del. BTU w/ H2S: 1080.90

Dry BTU W/O H2S (Real): 1080.33

Sat. BTU W/O H2S (Real): 1061.84

H2O (# / mmcf): 0.0

AS DEL. BTU W/O H2S (Real): 1080.33

BTU Calc: Dry

Sp. Gravity (Real): 0.8191

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 4.656

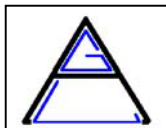
GPM Propane+ (Real): 2.334

GPM IC5+ (Real): 0.454

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks:

**ARMSTRONG GAS LABS, INC.**

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GAS ANALYSIS REPORT

Analysis No.: 441475
 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	1.4555	0.000	0.014		
Methane	73.0370	735.365	0.405		
CO2	0.9796	0.000	0.015		
Ethane	13.4546	237.361	0.140	3.592	
H2S	0.0005	0.000	0.000		
Propane	7.2147	180.961	0.110	1.984	
Iso-Butane	0.7354	23.840	0.015	0.240	
Butane	1.8989	61.754	0.038	0.598	
Iso-Pentane	0.3459	13.796	0.009	0.126	
Pentane	0.3811	15.229	0.009	0.138	
Hexanes C6+	0.4968	25.402	0.016	0.216	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1293.707	0.770	6.894	
					Producer: Centennial Well / Sta. Name: EL CAMPEON FEDERAL COM 413H Sta. No.: N/L Formation: Field: New Mexico County: API Number: 3002547827 Spot / Composite: SP Date / Time On: Date / Time Off: 06/20/24 Date to Lab: 06/24/24 Date Analyzed: 06/27/24 Effective Date: Sample Press. (PSIG): 182 Line Press. (PSIG): 182 Sample Temp. (F): 95 Fl. Gas Temp. (F): 95 Amb. Temp. (F): 81 Del. To: Sampled By: RO Cylinder No.: AGL-452

Field H2O (#/mm):

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

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

Z Factor (Dry): 0.9960069

Z Factor (Act.): 0.9960069

Dry BTU w/ H2S: 1298.90

Sat BTU w/ H2S: 1276.68

As Del. BTU w/ H2S: 1298.90

Dry BTU W/O H2S (Real): 1298.89**Sat. BTU W/O H2S (Real): 1276.67****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1298.89***BTU Calc: Dry***Sp. Gravity (Real): 0.7728**

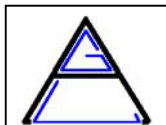
Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 6.894**GPM Propane+ (Real): 3.302****GPM IC5+ (Real): 0.480**

GPA 2145 / 2172

Fld. Remarks:**Lab Remarks: CP @ LAB 160 PSIG**

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GAS ANALYSIS REPORT

Analysis No.: 441476
 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	2.6942	0.000	0.026		
Methane	75.4253	759.411	0.418		
CO2	4.8502	0.000	0.074		
Ethane	8.7476	154.322	0.091	2.334	
H2S	0.0400	0.000	0.000		
Propane	4.5573	114.307	0.069	1.253	
Iso-Butane	0.6076	19.697	0.012	0.198	
Butane	1.5175	49.350	0.030	0.477	
Iso-Pentane	0.4322	17.238	0.011	0.158	
Pentane	0.4228	16.896	0.011	0.153	
Hexanes C6+	0.7053	36.063	0.023	0.307	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1167.284	0.765	4.880	

Producer: Centennial
Well / Sta. Name: Pacman 501-602 Sales Check
Sta. No.: 50479
Formation:
Field: New Mexico
County:
API Number: N/L

Spot / Composite: SP
 Date / Time On:
 Date / Time Off: 06/25/24
 Date to Lab: 06/25/24
 Date Analyzed: 06/27/24
 Effective Date:

Sample Press. (PSIG): 608
 Line Press. (PSIG): 608
 Sample Temp. (F): 96
 Fl. Gas Temp. (F): 96
 Amb. Temp. (F): 85

Del. To:
 Sampled By: JH
 Cylinder No.: 838

Field H2O (#/mm):

Field H2S (PPM): 400.0
 Field H2S (Grains): 25.17

Pressure Base: 14.65
Temp. Base: 60

Z Factor (Dry): 0.9964426
 Z Factor (Act.): 0.9964426

Dry BTU w/ H2S: 1171.71

Sat BTU w/ H2S: 1151.65

As Del. BTU w/ H2S: 1171.71

Dry BTU W/O H2S (Real): 1171.45

Sat. BTU W/O H2S (Real): 1151.39

H2O (# / mmcf): 0.0

AS DEL. BTU W/O H2S (Real): 1171.45

BTU Calc: Dry

Sp. Gravity (Real): 0.7673

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 4.880

GPM Propane+ (Real): 2.546

GPM IC5+ (Real): 0.618

GPA 2145 / 2172

Fld. Remarks: TAG: NO API PER WHITNEY

Lab Remarks: CP @ LAB 80 PSIG

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 415216

DEFINITIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 415216
	Action Type: [C-129] Venting and/or Flaring (C-129)

DEFINITIONS

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application: • this application's operator, hereinafter "this operator"; • venting and/or flaring, hereinafter "vent or flare"; • any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms"; • the statements in (and/or attached to) this, hereinafter "the statements in this"; • and the past tense will be used in lieu of mixed past/present tense questions and statements.

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 415216

QUESTIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 415216
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS**Prerequisites**

Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.

Incident Well	Unavailable.
Incident Facility	[fAPP2220946677] Crunch Berry 6 CTB 1

Determination of Reporting Requirements

Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.

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.

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.

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

Please provide the mole percent for the percentage questions in this group.

Methane (CH4) percentage	76
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	0
Oxygen (O2) percentage, if greater than one percent	0

If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.

Methane (CH4) percentage quality requirement	Not answered.
Nitrogen (N2) percentage quality requirement	Not answered.
Hydrogen Sulfide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (CO2) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 415216

QUESTIONS (continued)

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	372165
	Action Number: 415216
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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	12/12/2024
Time vent or flare was discovered or commenced	06:00 AM
Time vent or flare was terminated	06:00 PM
Cumulative hours during this event	12

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Equipment Failure Tank (Any) Natural Gas Flared Released: 273 Mcf Recovered: 0 Mcf Lost: 273 Mcf.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Not answered.
Is this a gas only submission (i.e. only significant Mcf values reported)	Yes, according to supplied volumes this appears to be a "gas only" report.

Venting or Flaring Resulting from Downstream Activity	
Was this vent or flare a result of downstream activity	No
Was notification of downstream activity received by this operator	Not answered.
Downstream OGRID that should have notified this operator	Not answered.
Date notified of downstream activity requiring this vent or flare	Not answered.
Time notified of downstream activity requiring this vent or flare	Not answered.

Steps and Actions to Prevent Waste	
For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control.	True
Please explain reason for why this event was beyond this operator's control	VRU issues
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

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ACKNOWLEDGMENTS

Action 415216

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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 415216

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CONDITIONS

Created By	Condition	Condition Date
cmevans	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.	12/26/2024