

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

GAS ANALYSIS REPORT

Analysis No : 540421 Customer: Centennial

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

Field H2O (#/mm):

Field H2S (PPM): 900.0 Dry BTU W/O H2S (Real): 1145.77 Field H2S (Grains): 56.64 Sat. BTU W/O H2S (Real): 1126.16

> H2O (# / mmcf): 0.0

Pressure Base: 14.65 AS DEL. BTU W/O H2S (Real): 1145.77

BTU Calc: Dry

Temp. Base: 60 Sp. Gravity (Real): 0.8072

Field Gravity: Z Factor (Dry): 0.9962802

Z Factor (Act.): 0.9962802 Lab Gravitometer:

Dry BTU w/ H2S: 1146.34 GPM Ethane+ (Real): 5.188 Sat BTU w/ H2S: 1126.72 GPM Propane+ (Real): 2.696 As Del. BTU w/ H2S: 1146.34

GPM IC5+ (Real): GPA 2145 / 2172 0.618

Fld. Remarks:



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GAS ANALYSIS REPORT

Analysis No : 540395 Customer: Centennial

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

Field H2O (#/mm):

Field H2S (PPM): 800.0 Dry BTU W/O H2S (Real): 1191.59 Field H2S (Grains): 50.35 Sat. BTU W/O H2S (Real): 1171.19

H2O (# / mmcf): 0.0

Pressure Base: 14.65 AS DEL. BTU W/O H2S (Real): 1191.59 Temp. Base: 60

BTU Calc: Dry

Sp. Gravity (Real): 0.7699

Z Factor (Dry): 0.9963314 Field Gravity: Z Factor (Act.): 0.9963314 Lab Gravitometer:

Dry BTU w/ H2S: 1192.10 GPM Ethane+ (Real): 5.016 Sat BTU w/ H2S: 1171.70

GPM Propane+ (Real): 2.677 As Del. BTU w/ H2S: 1192.10 GPM IC5+ (Real): GPA 2145 / 2172 0.674

Fld. Remarks: Lab Remarks:



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GAS ANALYSIS REPORT

Analysis No : 540394 Customer: Centennial

		(Ideal)	(Ideal)	(Real)		
<u>Component</u>	<u>Mol. %</u>	<u>BTU</u>	<u>sg</u>	<u>GPM</u>	Producer:	
					Well / Sta. Name:	CASA BONITA/BUTTER SCOTCH CONTACT #2
Nitrogen	1.9629	0.000	0.019		Sta. No.:	T20598285
Methane	76.4020	769.245	0.423		Formation:	
CO2	3.9250	0.000	0.060		Field:	New Mexico
Ethane	9.6603	170.423	0.100	2.578	County:	
H2S	0.0001	0.000	0.000		API Number:	N/L
Propane	4.8659	122.048	0.074	1.338		
Iso-Butane	0.6155	19.953	0.012	0.201	Spot / Composite:	SP
Butane	1.3824	44.957	0.028	0.435	Date / Time On:	
Iso-Pentane	0.3277	13.070	0.008	0.120	Date / Time Off:	11/18/24
Pentane	0.2809	11.225	0.007	0.102	Date to Lab:	11/18/24
Hexanes C6+	0.5773	29.518	0.019	0.251	Date Analyzed:	11/22/24
					Effective Date:	
Hydrogen	N/A				Sample Press. (PSIG):	148
Helium	N/A				Line Press. (PSIG):	148
Oxygen	N/A				Sample Temp. (F):	58
CO	N/A				FI. Gas Temp. (F):	58
					Amb. Temp. (F):	42
Totals	100.0000	1180.439	0.750	5.025		
					Del. To:	
					Sampled By:	JL
					Cylinder No.:	73
					Symmetrivo	, 0

Field H2O (#/mm):

GPA 2145 / 2172

Field H2S (PPM): 0.5 Dry BTU W/O H2S (Real): 1184.60 Field H2S (Grains): 0.03 Sat. BTU W/O H2S (Real): 1164.32

H2O (# / mmcf): 0.0

Pressure Base: 14.65 AS DEL. BTU W/O H2S (Real): 1184.60 Temp. Base: 60

BTU Calc: Dry

Sp. Gravity (Real): 0.7524

Field Gravity: Z Factor (Dry): 0.9964888

Z Factor (Act.): 0.9964888 Lab Gravitometer: Dry BTU w/ H2S: 1184.60

GPM Ethane+ (Real): 5.025 Sat BTU w/ H2S: 1164.32 GPM Propane+ (Real): 2.447 As Del. BTU w/ H2S: 1184.60 GPM IC5+ (Real): 0.473

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



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GAS ANALYSIS REPORT

Analysis No : 344160 Customer: Centennial

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

Field H2O (#/mm):

Field H2S (PPM): 1,800.0 Dry BTU W/O H2S (Real): 1083.56 Field H2S (Grains): 113.28 Sat. BTU W/O H2S (Real): 1065.00

H2O (# / mmcf): 0.0

Pressure Base: 14.65 AS DEL. BTU W/O H2S (Real): 1083.56 Temp. Base: 60

BTU Calc: Dry

Sp. Gravity (Real): 0.7969 Field Gravity: Z Factor (Dry): 0.9965297

Z Factor (Act.): 0.9965297 Lab Gravitometer:

Dry BTU w/ H2S: 1084.71 GPM Ethane+ (Real): 4.444 Sat BTU w/ H2S: 1066.13 GPM Propane+ (Real): 2.148 As Del. BTU w/ H2S: 1084.71 GPM IC5+ (Real): 0.488

Fld. Remarks:

GPA 2145 / 2172



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GAS ANALYSIS REPORT

Analysis No : 344159 Customer: Centennial

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

Field H2O (#/mm):

Field H2S (PPM): 2,000.0 Dry BTU W/O H2S (Real): 1105.62 Field H2S (Grains): 125.87 Sat. BTU W/O H2S (Real): 1086.69

H2O (# / mmcf): 0.0

Pressure Base: 14.65 AS DEL. BTU W/O H2S (Real): 1105.62 Temp. Base: 60

BTU Calc: Dry

Sp. Gravity (Real): 0.8055

Field Gravity: Z Factor (Dry): 0.9964010 Z Factor (Act.): 0.9964010 Lab Gravitometer:

Dry BTU w/ H2S: 1106.89 GPM Ethane+ (Real): 4.773 Sat BTU w/ H2S: 1087.94 GPM Propane+ (Real): 2.356 As Del. BTU w/ H2S: 1106.89 GPM IC5+ (Real): 0.548

Fld. Remarks: Lab Remarks:

GPA 2145 / 2172



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GAS ANALYSIS REPORT

Analysis No : 344158 Customer: Centennial

		(Ideal)	(Ideal)	(Real)		
Component	<u>Mol. %</u>	<u>BTU</u>	SG	<u>GPM</u>	Producer:	Centennial
					Well / Sta. Name:	Duck Hunt 1 State Com 501H
Nitrogen	1.9828	0.000	0.019		Sta. No.:	3758
Methane	80.3075	808.567	0.445		Formation:	
CO2	3.0542	0.000	0.046		Field:	New Mexico
Ethane	7.9310	139.916	0.082	2.116	County:	
H2S	0.0100	0.000	0.000		API Number:	3002545265
Propane	3.9315	98.611	0.060	1.080		
Iso-Butane	0.5392	17.479	0.011	0.176	Spot / Composite:	SP
Butane	1.1444	37.217	0.023	0.360	Date / Time On:	
Iso-Pentane	0.3151	12.567	0.008	0.115	Date / Time Off:	11/20/24
Pentane	0.2671	10.674	0.007	0.097	Date to Lab:	11/21/24
Hexanes C6+	0.5172	26.445	0.017	0.225	Date Analyzed:	11/22/24
					Effective Date:	
Hydrogen	N/A				Sample Press. (PSIG):	150
Helium	N/A				Line Press. (PSIG):	150
Oxygen	N/A				Sample Temp. (F):	70
CO	N/A				FI. Gas Temp. (F):	70
00	1077				Amb. Temp. (F):	61
Totals	100.0000	1151.476	0.718	4.169	Amb. remp. (i).	01
Totals	100.0000	1101.470	0.7 10	4.103	Del. To:	
					Sampled By:	RO
					_	
					Cylinder No.:	AGL-183

Field H2O (#/mm):

Field H2S (PPM): 100.0 Dry BTU W/O H2S (Real): 1155.19 Field H2S (Grains): 6.29 Sat. BTU W/O H2S (Real): 1135.40

> H2O (# / mmcf): 0.0

Pressure Base: 14.65 AS DEL. BTU W/O H2S (Real): 1155.19 Temp. Base: 60

BTU Calc: Dry

Sp. Gravity (Real): 0.7197

Field Gravity:

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

Dry BTU w/ H2S: 1155.26 Sat BTU w/ H2S: 1135.46

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

As Del. BTU w/ H2S: 1155.26 GPA 2145 / 2172

Fld. Remarks:



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GAS ANALYSIS REPORT

Analysis No : 344157 Customer: Centennial

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

Field H2O (#/mm):

Field H2S (PPM): 300.0 Dry BTU W/O H2S (Real): 1140.64 Field H2S (Grains): 18.88 Sat. BTU W/O H2S (Real): 1121.10

H2O (# / mmcf): 0.0

Pressure Base: 14.65 AS DEL. BTU W/O H2S (Real): 1140.64 Temp. Base: 60

BTU Calc: Dry

Sp. Gravity (Real): 0.7470 Field Gravity:

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

Dry BTU w/ H2S: 1140.83 GPM Ethane+ (Real): 4.383 Sat BTU w/ H2S: 1121.29 GPM Propane+ (Real): 2.168 As Del. BTU w/ H2S: 1140.83

GPM IC5+ (Real): GPA 2145 / 2172 0.445

Fld. Remarks:

Lab Remarks: CP @ LAB 127 PSIG



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GAS ANALYSIS REPORT

Analysis No : 344156 Customer: Centennial

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

Field H2O (#/mm):

Field H2S (PPM): 100.0 Dry BTU W/O H2S (Real): 1172.96 Field H2S (Grains): 6.29 Sat. BTU W/O H2S (Real): 1152.87

H2O (# / mmcf): 0.0

GPM IC5+ (Real):

Pressure Base: 14.65 AS DEL. BTU W/O H2S (Real): 1172.96 Temp. Base: 60

BTU Calc: Dry

0.442

Sp. Gravity (Real): 0.7216

Z Factor (Dry): 0.9967332 Field Gravity: Z Factor (Act.): 0.9967332 Lab Gravitometer:

Dry BTU w/ H2S: 1173.03 GPM Ethane+ (Real): 4.517 Sat BTU w/ H2S: 1152.93 GPM Propane+ (Real): 2.150 As Del. BTU w/ H2S: 1173.03

Fld. Remarks:

GPA 2145 / 2172



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GAS ANALYSIS REPORT

Analysis No : 344155 Customer: Centennial

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

Field H2O (#/mm):

Field H2S (PPM): 700.0 Dry BTU W/O H2S (Real): 2186.00 Field H2S (Grains): 44.05 Sat. BTU W/O H2S (Real): 2148.84

> H2O (# / mmcf): 0.0

Pressure Base: 14.65 AS DEL. BTU W/O H2S (Real): 2186.00

BTU Calc: Dry

21.177

Temp. Base: 60 Sp. Gravity (Real): 1.3674

Field Gravity:

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

Dry BTU w/ H2S: 2186.45 GPM Ethane+ (Real): Sat BTU w/ H2S: 2149.28

GPM Propane+ (Real): 16.491 As Del. BTU w/ H2S: 2186.45 GPM IC5+ (Real): 1.855

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

GPA 2145 / 2172



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GAS ANALYSIS REPORT

Analysis No : 344154 Customer: Centennial

Component I Nitrogen Methane CO2 Ethane	1.8438 81.6200 1.8168	0.000	<u>SG</u> 0.018	<u>GPM</u>	Producer:	Centennial
Methane CO2	81.6200		0.018		Well / Ote News	
Methane CO2	81.6200		0.018		Well / Sta. Name:	Winnebago 30 State Com 602H
CO2		004 700	5.5.0		Sta. No.:	69871
	1 0160	821.782	0.452		Formation:	
Ethane	1.0100	0.000	0.028		Field:	New Mexico
	8.8850	156.746	0.092	2.370	County:	
H2S	0.0200	0.000	0.000		API Number:	3002550273
⊃ropane	3.6286	91.013	0.055	0.997		
so-Butane	0.4619	14.974	0.009	0.151	Spot / Composite:	SP
Butane	0.9989	32.485	0.020	0.314	Date / Time On:	
so-Pentane	0.2570	10.250	0.006	0.094	Date / Time Off:	11/20/24
Pentane	0.2170	8.672	0.005	0.078	Date to Lab:	11/20/24
Hexanes C6+	0.2510	12.834	0.008	0.109	Date Analyzed:	11/22/24
					Effective Date:	
Hydrogen	N/A				Sample Press. (PSIG):	144
Helium	N/A				Line Press. (PSIG):	144
Oxygen	N/A				Sample Temp. (F):	34
CO	N/A				FI. Gas Temp. (F):	34
					Amb. Temp. (F):	31
Γota l s 1	100.0000	1148.755	0.694	4.113		
					Del. To:	
					Sampled By:	JL
					Cylinder No.:	845

Field H2O (#/mm):

Field H2S (PPM): 200.0 Dry BTU W/O H2S (Real): 1152.28 Field H2S (Grains): 12.59 Sat. BTU W/O H2S (Real): 1132.53

> H2O (# / mmcf): 0.0

Pressure Base: 14.65 AS DEL. BTU W/O H2S (Real): 1152.28 Temp. Base: 60

BTU Calc: Dry

4.113

1.743

Sp. Gravity (Real): 0.6963

Field Gravity:

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

Dry BTU w/ H2S: 1152.41 GPM Ethane+ (Real): Sat BTU w/ H2S: 1132.66 GPM Propane+ (Real): As Del. BTU w/ H2S: 1152.41

GPM IC5+ (Real): GPA 2145 / 2172 0.281

Fld. Remarks: Lab Remarks:



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GAS ANALYSIS REPORT

Analysis No : 344153 Customer: Centennial

		(Ideal)	(Ideal)	(Real)		
<u>Component</u>	<u>Mol. %</u>	<u>BTU</u>	<u>SG</u>	<u>GPM</u>	Producer:	Centennial
					Well / Sta. Name:	Margarita 12 State Com 602H
Nitrogen	2.2847	0.000	0.022		Sta. No.:	67512
Methane	77.9676	785.008	0.432		Formation:	
CO2	1.3920	0.000	0.021		Field:	New Mexico
Ethane	10.2647	181.086	0.107	2.739	County:	
H2S	0.0010	0.000	0.000		API Number:	3002549822
Propane	4.9807	124.927	0.076	1.369		
lso-Butane	0.5955	19.304	0.012	0.194	Spot / Composite:	SP
Butane	1.4711	47.841	0.030	0.463	Date / Time On:	
lso-Pentane	0.3152	12.571	0.008	0.115	Date / Time Off:	11/18/24
Pentane	0.2932	11.717	0.007	0.106	Date to Lab:	11/19/24
Hexanes C6+	0.4343	22.206	0.014	0.189	Date Analyzed:	11/22/24
					Effective Date:	
Hydrogen	N/A				Sample Press. (PSIG):	139
Helium	N/A				Line Press. (PSIG):	139
Oxygen	N/A				Sample Temp. (F):	73
co	N/A				FI. Gas Temp. (F):	73
					Amb. Temp. (F):	49
Γota l s	100.0000	1204.661	0.728	5.175		
					Del. To:	
					Sampled By:	EL
					Cylinder No.:	116
					1	

Field H2O (#/mm):

Field H2S (PPM): 10.0 Dry BTU W/O H2S (Real): 1208.80 Field H2S (Grains): 0.63 Sat. BTU W/O H2S (Real): 1188.10

> H2O (# / mmcf): 0.0

Pressure Base: 14.65 AS DEL. BTU W/O H2S (Real): 1208.79 Temp. Base: 60

BTU Calc: Dry

Sp. Gravity (Real): 0.7303

Field Gravity:

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

Dry BTU w/ H2S: 1208.80 Sat BTU w/ H2S: 1188.10

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

As Del. BTU w/ H2S: 1208.80

GPA 2145 / 2172

Fld. Remarks: Lab Remarks:



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GAS ANALYSIS REPORT

Analysis No : 344152 Customer: Centennial

_		(Ideal)	(Ideal)	(Real)		
<u>Component</u>	<u>Mol. %</u>	<u>BTU</u>	<u>sg</u>	<u>GPM</u>	Producer:	Centennial
					Well / Sta. Name:	Margarita 12 State Com 601H
Nitrogen	2.3671	0.000	0.023		Sta. No.:	67510
Methane	77.7331	782.647	0.431		Formation:	
CO2	1.0779	0.000	0.016		Field:	New Mexico
Ethane	10.5615	186.322	0.110	2.818	County:	
H2S	0.0100	0.000	0.000		API Number:	3002549821
Propane	5.1109	128.193	0.078	1.405		
Iso-Butane	0.6051	19.616	0.012	0.198	Spot / Composite:	SP
Butane	1.4766	48.020	0.030	0.464	Date / Time On:	
Iso-Pentane	0.3095	12.344	0.008	0.113	Date / Time Off:	11/18/24
Pentane	0.2985	11.929	0.007	0.108	Date to Lab:	11/19/24
Hexanes C6+	0.4498	22.999	0.014	0.196	Date Analyzed:	11/22/24
					Effective Date:	
Hydrogen	N/A				Sample Press. (PSIG):	137
Helium	N/A				Line Press. (PSIG):	137
Oxygen	N/A				Sample Temp. (F):	72
CO	N/A				FI. Gas Temp. (F):	72
					Amb. Temp. (F):	49
Totals	100.0000	1212.069	0.729	5.302		
					Del. To:	
					Sampled By:	EL
					Cylinder No.:	731

Field H2O (#/mm):

Field H2S (PPM): 100.0 Dry BTU W/O H2S (Real): 1216.26 Field H2S (Grains): 6.29 Sat. BTU W/O H2S (Real): 1195.43

> H2O (# / mmcf): 0.0

Pressure Base: 14.65 AS DEL. BTU W/O H2S (Real): 1216.26 Temp. Base: 60

BTU Calc: Dry

Sp. Gravity (Real): 0.7310 Z Factor (Dry): 0.9965571

Field Gravity: Lab Gravitometer:

Z Factor (Act.): 0.9965571 Dry BTU w/ H2S: 1216.32

GPM Ethane+ (Real): 5.302 Sat BTU w/ H2S: 1195.49 GPM Propane+ (Real): 2.484 As Del. BTU w/ H2S: 1216.32 GPM IC5+ (Real): 0.417

Fld. Remarks:

GPA 2145 / 2172



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GAS ANALYSIS REPORT

Analysis No : 344151 Customer: Centennial

		(Ideal)	(Ideal)	(Real)		
Component	<u>Mol. %</u>	<u>BTU</u>	<u>SG</u>	<u>GPM</u>	Producer:	Centennial
					Well / Sta. Name:	Winnebago 30 State Com 603H
Nitrogen	1.8119	0.000	0.018		Sta. No.:	69885
Methane	80.7934	813.459	0.448		Formation:	
CO2	0.8139	0.000	0.012		Field:	New Mexico
Ethane	9.5372	168.252	0.099	2.544	County:	
H2S	0.0040	0.000	0.000		API Number:	3002550274
Propane	4.4678	112.062	0.068	1.228		
Iso-Butane	0.5656	18.335	0.011	0.185	Spot / Composite:	SP
Butane	1.1773	38.287	0.024	0.370	Date / Time On:	
Iso-Pentane	0.2943	11.738	0.007	0.107	Date / Time Off:	11/20/24
Pentane	0.2463	9.843	0.006	0.089	Date to Lab:	11/20/24
Hexanes C6+	0.2883	14.741	0.009	0.126	Date Analyzed:	11/22/24
					Effective Date:	
Hydrogen	N/A				Sample Press. (PSIG):	134
Helium	N/A				Line Press. (PSIG):	134
Oxygen	N/A				Sample Temp. (F):	37
co	N/A				FI. Gas Temp. (F):	37
					Amb. Temp. (F):	31
Totals	100.0000	1186.717	0.702	4,649		
					Del. To:	
					Sampled By:	JL
					Cylinder No.:	865
					3,31 110	

Field H2O (#/mm):

Temp. Base: 60

Field H2S (PPM): 40.0 Dry BTU W/O H2S (Real): 1190.54 Field H2S (Grains): 2.52 Sat. BTU W/O H2S (Real): 1170.14

> H2O (# / mmcf): 0.0

Pressure Base: 14.65 AS DEL. BTU W/O H2S (Real): 1190.54

BTU Calc: Dry

Sp. Gravity (Real): 0.7042

Field Gravity:

Z Factor (Dry): 0.9967899

Z Factor (Act.): 0.9967899 Lab Gravitometer:

Dry BTU w/ H2S: 1190.56 GPM Ethane+ (Real): 4.649 Sat BTU w/ H2S: 1170.17

GPM Propane+ (Real): 2.105 As Del. BTU w/ H2S: 1190.56 GPM IC5+ (Real): GPA 2145 / 2172 0.322

Fld. Remarks: Lab Remarks:

Released to Imaging: 11/26/2025 7:14:28 AM



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GAS ANALYSIS REPORT

Analysis No : 344150 Customer: Centennial

		(Ideal)	(Ideal)	(Real)		
<u>Component</u>	<u>Mol. %</u>	<u>BTU</u>	<u>sg</u>	<u>GPM</u>	Producer:	Centennial
					Well / Sta. Name:	Sheba Federal Com 506H
Nitrogen	2.5472	0.000	0.025		Sta. No.:	39899
Methane	74.8470	753.588	0.415		Formation:	
CO2	5.8662	0.000	0.089		Field:	New Mexico
Ethane	8.8995	157.001	0.092	2.375	County:	
H2S	0.0003	0.000	0.000		API Number:	3002549122
Propane	4.7505	119.153	0.072	1.306		
Iso-Butane	0.6375	20.666	0.013	0.208	Spot / Composite:	SP
Butane	1.3733	44.661	0.028	0.432	Date / Time On:	
Iso-Pentane	0.3498	13.951	0.009	0.128	Date / Time Off:	11/21/24
Pentane	0.2957	11.817	0.007	0.107	Date to Lab:	11/22/24
Hexanes C6+	0.4330	22.140	0.014	0.189	Date Analyzed:	11/22/24
					Effective Date:	
Hydrogen	N/A				Sample Press. (PSIG):	121
Helium	N/A				Line Press. (PSIG):	121
Oxygen	N/A				Sample Temp. (F):	67
CO	N/A				Fl. Gas Temp. (F):	67
					Amb. Temp. (F):	42
Totals	100.0000	1142.978	0.763	4.745		
					Del. To:	
					Sampled By:	EL
					Cylinder No.:	415

Field H2O (#/mm):

Field H2S (PPM): 2.5 Dry BTU W/O H2S (Real): 1146.96 Field H2S (Grains): 0.16 Sat. BTU W/O H2S (Real): 1127.32

H2O (# / mmcf): 0.0

Pressure Base: 14.65 AS DEL. BTU W/O H2S (Real): 1146.96

BTU Calc: Dry

0.424

Sp. Gravity (Real): 0.7658

Field Gravity:

Z Factor (Dry): 0.9965316

Z Factor (Act.): 0.9965316 Lab Gravitometer:

Dry BTU w/ H2S: 1146.96 Sat BTU w/ H2S: 1127.32

Temp. Base: 60

GPM Ethane+ (Real): 4.745 GPM Propane+ (Real): 2.370 As Del. BTU w/ H2S: 1146.96 GPM IC5+ (Real):

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Fld. Remarks:



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GAS ANALYSIS REPORT

Analysis No : 344149 Customer: Centennial

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

Field H2O (#/mm):

Field H2S (PPM): 1,000.0 Dry BTU W/O H2S (Real): 1131.52 Field H2S (Grains): 62.93 Sat. BTU W/O H2S (Real): 1112.15

H2O (# / mmcf): 0.0

GPM Propane+ (Real):

Pressure Base: 14.65 AS DEL. BTU W/O H2S (Real): 1131.52 Temp. Base: 60

BTU Calc: Dry

2.602

Sp. Gravity (Real): 0.8083 Z Factor (Dry): 0.9963182 Field Gravity:

Z Factor (Act.): 0.9963182 Lab Gravitometer:

Dry BTU w/ H2S: 1132.15 GPM Ethane+ (Real): 5.052 Sat BTU w/ H2S: 1112.77

GPM IC5+ (Real): GPA 2145 / 2172 0.612

Fld. Remarks:

Lab Remarks:

As Del. BTU w/ H2S: 1132.15



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GAS ANALYSIS REPORT

Analysis No : 344148 Customer: Centennial

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

Field H2O (#/mm):

Field H2S (PPM): 70.0 Dry BTU W/O H2S (Real): 1212.90 Field H2S (Grains): 4.41 Sat. BTU W/O H2S (Real): 1192.13

> H2O (# / mmcf): 0.0

Pressure Base: 14.65 AS DEL. BTU W/O H2S (Real): 1212.90

BTU Calc: Dry

Temp. Base: 60 Sp. Gravity (Real): 0.7311

Field Gravity:

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

Dry BTU w/ H2S: 1212.94

GPM Ethane+ (Real): 5.177 Sat BTU w/ H2S: 1192.17 GPM Propane+ (Real): 2.473 As Del. BTU w/ H2S: 1212.94 GPM IC5+ (Real): 0.460

GPA 2145 / 2172

Fld. Remarks: Lab Remarks:



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GAS ANALYSIS REPORT

Analysis No : 344147 Customer: Centennial

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

Field H2O (#/mm):

Field H2S (PPM): 100.0 Dry BTU W/O H2S (Real): 1174.95 Field H2S (Grains): 6.29 Sat. BTU W/O H2S (Real): 1154.83

H2O (# / mmcf): 0.0

Pressure Base: 14.65 AS DEL. BTU W/O H2S (Real): 1174.95 Temp. Base: 60

BTU Calc: Dry

Sp. Gravity (Real): 0.7220

Field Gravity:

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

Lab Gravitometer:

Dry BTU w/ H2S: 1175.02 GPM Ethane+ (Real): 4.297 Sat BTU w/ H2S: 1154.89 GPM Propane+ (Real): 2.226 As Del. BTU w/ H2S: 1175.02 GPM IC5+ (Real): 0.547

Fld. Remarks: Lab Remarks:

GPA 2145 / 2172



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GAS ANALYSIS REPORT

Analysis No.: 344146

Customer: Centennial

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

Field H2O (#/mm):

Field H2S (PPM): 100.0 Dry BTU W/O H2S (Real): 1171.90 Field H2S (Grains): 6.29 Sat. BTU W/O H2S (Real): 1151.83

H2O (# / mmcf): 0.0

4.287

Pressure Base: 14.65 AS DEL. BTU W/O H2S (Real): 1171.90
Temp. Base: 60 BTU Calc: Dry

Sp. Gravity (Real): 0.7202

Z Factor (Dry): 0.9967336 Field Gravity:

Z Factor (Act.): 0.9967336 Lab Gravitometer:

Dry BTU w/ H2S: 1171.97
Sat BTU w/ H2S: 1151.89 GPM Ethane+ (Real):

Fld. Remarks:



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GAS ANALYSIS REPORT

Analysis No : 344145 Customer: Centennial

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

Field H2O (#/mm):

Temp. Base: 60

Sat BTU w/ H2S: 1089.80

Field H2S (PPM): 2,000.0 Dry BTU W/O H2S (Real): 1107.51 Field H2S (Grains): 125.87 Sat. BTU W/O H2S (Real): 1088.55

> H2O (# / mmcf): 0.0

Pressure Base: 14.65 AS DEL. BTU W/O H2S (Real): 1107.51

BTU Calc: Dry

Sp. Gravity (Real): 0.7938

Field Gravity:

Z Factor (Dry): 0.9964618 Lab Gravitometer:

Z Factor (Act.): 0.9964618 Dry BTU w/ H2S: 1108.79

> GPM Ethane+ (Real): 4.624 GPM Propane+ (Real): 2.262

As Del. BTU w/ H2S: 1108.79 GPA 2145 / 2172 GPM IC5+ (Real): 0.541

Fld. Remarks:



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GAS ANALYSIS REPORT

Analysis No : 344144 Customer: Centennial

		(Ideal)	(Ideal)	(Real)		
Component	<u>Mol. %</u>	<u>BTU</u>	<u>SG</u>	<u>GPM</u>	Producer:	Centennial
					Well / Sta. Name:	Winnebago 30 State Com 604H
Nitrogen	1.8343	0.000	0.018		Sta. No.:	9883
Methane	79.9245	804.711	0.443		Formation:	
CO2	1.0848	0.000	0.016		Field:	New Mexico
Ethane	9.5818	169.038	0.099	2.556	County:	
H2S	0.0200	0.000	0.000		API Number:	3002550275
Propane	4.4273	111.047	0.067	1.217		
Iso-Butane	0.6747	21.872	0.014	0.220	Spot / Composite:	SP
Butane	1.4990	48.749	0.030	0.471	Date / Time On:	
Iso-Pentane	0.3455	13.780	0.009	0.126	Date / Time Off:	11/20/24
Pentane	0.2717	10.858	0.007	0.098	Date to Lab:	11/20/24
Hexanes C6+	0.3364	17.201	0.011	0.146	Date Analyzed:	11/22/24
					Effective Date:	
Lludrogon	N/A				Sample Press. (PSIG):	134
Hydrogen Helium	N/A N/A				• • • • • • • • • • • • • • • • • • • •	
	N/A N/A				Line Press. (PSIG):	134 41
Oxygen CO	N/A N/A				Sample Temp. (F): Fl. Gas Temp. (F):	41
CO	IN/A				. ` ` ′	
T. (.).	100 0000	4407.054	0.744	4.004	Amb. Temp. (F):	31
Totals	100.0000	1197.254	0.714	4.834	Del Ter	
					Del. To:	
					Sampled By:	JL
					Cylinder No.:	618

Field H2O (#/mm):

Field H2S (PPM): 200.0 Dry BTU W/O H2S (Real): 1201.24 Field H2S (Grains): 12.59 Sat. BTU W/O H2S (Real): 1180.66

H2O (# / mmcf): 0.0

Pressure Base: 14.65 AS DEL. BTU W/O H2S (Real): 1201.24 Temp. Base: 60

BTU Calc: Dry

4.834

Sp. Gravity (Real): 0.7160

Field Gravity: Z Factor (Dry): 0.9966854 Z Factor (Act.): 0.9966854 Lab Gravitometer:

Dry BTU w/ H2S: 1201.36 GPM Ethane+ (Real): Sat BTU w/ H2S: 1180.78

GPM Propane+ (Real): 2.278 As Del. BTU w/ H2S: 1201.36 GPM IC5+ (Real): GPA 2145 / 2172 0.370

Fld. Remarks: Lab Remarks:



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GAS ANALYSIS REPORT

Analysis No : 344143 Customer: Centennial

		(Ideal)	(Ideal)	(Real)		
<u>Component</u>	<u>Mol. %</u>	<u>BTU</u>	<u>sg</u>	<u>GPM</u>	Producer:	
					Well / Sta. Name:	WINNEBAGO NORTH WINDS SC
Nitrogen	1.6620	0.000	0.016		Sta. No.:	T231308196
Methane	77.1211	776.485	0.427		Formation:	
CO2	4.6761	0.000	0.071		Field:	New Mexico
Ethane	8.6035	151.780	0.089	2.296	County:	
H2S	0.0300	0.000	0.000		API Number:	N/L
Propane	4.4188	110.833	0.067	1.215		
Iso-Butane	0.6761	21.917	0.014	0.221	Spot / Composite:	SP
Butane	1.4622	47.552	0.029	0.460	Date / Time On:	
Iso-Pentane	0.4319	17.226	0.011	0.158	Date / Time Off:	11/20/24
Pentane	0.3643	14.558	0.009	0.132	Date to Lab:	11/21/24
Hexanes C6+	0.5540	28.327	0.018	0.241	Date Analyzed:	11/22/24
					Effective Date:	
Hydrogen	N/A				Sample Press. (PSIG):	129
Helium	N/A				Line Press. (PSIG):	129
Oxygen	N/A				Sample Temp. (F):	69
CO	N/A				FI. Gas Temp. (F):	69
					Amb. Temp. (F):	37
Totals	100.0000	1168.678	0.752	4.723		
					Del. To:	
					Sampled By:	EL
					Cylinder No.:	743
					,	

Field H2O (#/mm):

Field H2S (PPM): 300.0 Dry BTU W/O H2S (Real): 1172.78 Field H2S (Grains): 18.88 Sat. BTU W/O H2S (Real): 1152.70

H2O (# / mmcf): 0.0

Pressure Base: 14.65 AS DEL. BTU W/O H2S (Real): 1172.78

BTU Calc: Dry

Temp. Base: 60 Sp. Gravity (Real): 0.7542

Field Gravity:

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

Lab Gravitometer:

Dry BTU w/ H2S: 1172.97 Sat BTU w/ H2S: 1152.89

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

Fld. Remarks: TAG: NO API PER WHITNEY

As Del. BTU w/ H2S: 1172.97

Lab Remarks: CP @ LAB 144 PSIG

GPA 2145 / 2172



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GAS ANALYSIS REPORT

Analysis No : 344142 Customer: Centennial

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

Field H2O (#/mm):

Field H2S (PPM): 50.0 Dry BTU W/O H2S (Real): 1208.73 Field H2S (Grains): 3.15 Sat. BTU W/O H2S (Real): 1188.03

> H2O (# / mmcf): 0.0

Pressure Base: 14.65 AS DEL. BTU W/O H2S (Real): 1208.73 Temp. Base: 60

BTU Calc: Dry

0.291

Sp. Gravity (Real): 0.7151

Field Gravity: Z Factor (Dry): 0.9966616

Z Factor (Act.): 0.9966616 Lab Gravitometer:

Dry BTU w/ H2S: 1208.76 GPM Ethane+ (Real): 5.057 Sat BTU w/ H2S: 1188.06 GPM Propane+ (Real): 2.258 As Del. BTU w/ H2S: 1208.76 GPM IC5+ (Real):

GPA 2145 / 2172 Fld. Remarks:

Lab Remarks: CP @ LAB 144 PSIG



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GAS ANALYSIS REPORT

Analysis No : 344141 Customer: Centennial

		(Ideal)	(Ideal)	(Real)		
<u>Component</u>	<u>Mol. %</u>	BTU	` <u>sg</u> ´	<u>GPM</u>	Producer:	Centennial
					Well / Sta. Name:	Carne Asada State Com 501H
Nitrogen	2.0616	0.000	0.020		Sta. No.:	9608
Methane	74.3536	748.621	0.412		Formation:	
CO2	3.8488	0.000	0.058		Field:	New Mexico
Ethane	10.7385	189.444	0.111	2.866	County:	
H2S	0.0100	0.000	0.000		API Number:	3002546021
Propane	5.6592	141.945	0.086	1.556		
Iso-Butane	0.6818	22.102	0.014	0.223	Spot / Composite:	SP
Butane	1.5028	48.872	0.030	0.473	Date / Time On:	
Iso-Pentane	0.3227	12.870	0.008	0.118	Date / Time Off:	11/18/24
Pentane	0.3006	12.012	0.007	0.109	Date to Lab:	11/19/24
Hexanes C6+	0.5204	26.609	0.017	0.227	Date Analyzed:	11/22/24
					Effective Date:	
Hydrogen	N/A				Sample Press. (PSIG):	113
Helium	N/A				Line Press. (PSIG):	113
Oxygen	N/A				Sample Temp. (F):	72
CO	N/A				FI. Gas Temp. (F):	72
					Amb. Temp. (F):	45
Totals	100.0000	1202.477	0.764	5.572		
					Del. To:	
					Sampled By:	JT
					Cylinder No.:	800
					- 7.	

Field H2O (#/mm):

Field H2S (PPM): 100.0 Dry BTU W/O H2S (Real): 1206.90 Field H2S (Grains): 6.29 Sat. BTU W/O H2S (Real): 1186.24

> H2O (# / mmcf): 0.0

Pressure Base: 14.65 AS DEL. BTU W/O H2S (Real): 1206.90 Temp. Base: 60

BTU Calc: Dry

Sp. Gravity (Real): 0.7666

Field Gravity:

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

Dry BTU w/ H2S: 1206.96 Sat BTU w/ H2S: 1186.30

GPM Ethane+ (Real): 5.572 GPM Propane+ (Real): 2.706 As Del. BTU w/ H2S: 1206.96

GPM IC5+ (Real): GPA 2145 / 2172 0.454

Fld. Remarks:

Lab Remarks: CP @ LAB 153 PSIG



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GAS ANALYSIS REPORT

Analysis No : 344140 Customer: Centennial

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

Field H2O (#/mm):

Field H2S (PPM): 100.0 Dry BTU W/O H2S (Real): 1322.57 Field H2S (Grains): 6.29 Sat. BTU W/O H2S (Real): 1299.95

H2O (# / mmcf): 0.0

Pressure Base: 14.65 AS DEL. BTU W/O H2S (Real): 1322.57 Temp. Base: 60

BTU Calc: Dry

Sp. Gravity (Real): 0.7769

Field Gravity: Lab Gravitometer:

Z Factor (Dry): 0.9958984 Z Factor (Act.): 0.9958984 Dry BTU w/ H2S: 1322.63

GPM Ethane+ (Real): 7.303 Sat BTU w/ H2S: 1300.01 GPM Propane+ (Real): 3.386 As Del. BTU w/ H2S: 1322.63 GPM IC5+ (Real): 0.567

Fld. Remarks:

GPA 2145 / 2172

Lab Remarks: CP @ LAB 37 PSIG



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GAS ANALYSIS REPORT

Analysis No : 344139 Customer: Centennial

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

Field H2O (#/mm):

Field H2S (PPM): 2.5 Dry BTU W/O H2S (Real): 1238.42 Field H2S (Grains): 0.16 Sat. BTU W/O H2S (Real): 1217.21

H2O (# / mmcf): 0.0

Pressure Base: 14.65 AS DEL. BTU W/O H2S (Real): 1238.42 Temp. Base: 60

BTU Calc: Dry

Sp. Gravity (Real): 0.7287

Field Gravity: Z Factor (Dry): 0.9964849 Z Factor (Act.): 0.9964849 Lab Gravitometer:

Dry BTU w/ H2S: 1238.42 GPM Ethane+ (Real): 5.400 Sat BTU w/ H2S: 1217.21 GPM Propane+ (Real): 2.598 As Del. BTU w/ H2S: 1238.42

GPM IC5+ (Real): GPA 2145 / 2172 0.493

Fld. Remarks: Lab Remarks:



Permian Resources meters all flared volumes, and volumes reported on C-129's in connection with flaring events are based on the available meter readings. While Permian Resources reports metered volumes on C-129 submissions, PR reviews the metered data for accuracy, reconciles any discovered discrepancies, and, where appropriate, submits amended C-129 reported volumes post-reconciliation to ensure accurate reporting.

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 530103

DEFINITIONS

Operator:	OGRID:
Permian Resources Operating, LLC	372165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	530103
	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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Phone: (505) 629-6116
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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 530103

QI	UESTIONS	
Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701		OGRID:
QUESTIONS		
Prerequisites		
Any messages presented in this section, will prevent submission of this application. Please resolve t	hese issues before continuing with	h the rest of the questions.
Incident Well	Unavailable.	
Incident Facility	[fAPP2220762496] Chimic	hangas 12 CTB 2
Determination of Reporting Requirements		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers ar	nd may provide addional guidance.	
Was this vent or flare caused by an emergency or malfunction	Yes	
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	Yes	
Is this considered a submission for a vent or flare event	Yes, minor venting and/or	flaring of natural gas.
An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during v	enting 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	70	
Nitrogen (N2) percentage, if greater than one percent	4	
Hydrogen Sulfide (H2S) PPM, rounded up	0	
Carbon Dioxide (CO2) percentage, if greater than one percent	8	
Oxygen (02) percentage, if greater than one percent	0	
If you are venting and/or flaring because of Pipeline Specification, please provide the required specific		
Methane (CH4) percentage quality requirement	Not answered.	
Nitrogen (N2) percentage quality requirement	Not answered.	
Hydrogen Sufide (H2S) PPM quality requirement	Not answered.	
Carbon Diavida (C02) paraentaga quality requirement	Not answored	

Oxygen (02) percentage quality requirement

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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 530103

QUESTI	ONS (continued)
Operator:	OGRID:
Permian Resources Operating, LLC	372165
300 N. Marienfeld St Ste 1000 Midland, TX 79701	Action Number: 530103
	Action Type: [C-129] Venting and/or Flaring (C-129)
QUESTIONS	[o izo] voluing analo: vialing (o izo)
Date(s) and Time(s)	
Date vent or flare was discovered or commenced	44440005
Time vent or flare was discovered or commenced	11/14/2025
Time vent or flare was discovered or commenced Time vent or flare was terminated	06:00 AM
Cumulative hours during this event	05:00 PM
Cumulative flours during this event	11
Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Midstream Emergency Maintenance Tank (Any) Natural Gas Flared Released: 120 Mcf Recovered: 0 Mcf Lost: 120 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	True
and it was beyond this operator's control.	Tito .
Please explain reason for why this event was beyond this operator's control	Targa units down at BH/GH causing HLP and VRUs tripping on high discharge
Steps taken to limit the duration and magnitude of vent or flare	Open valves to divert gas to a second midstream company to relieve pressure off the line
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Clear consistent communication with midstream provider

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General Information Phone: (505) 629-6116

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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

ACKNOWLEDGMENTS

Action 530103

ACKNOWLEDGMENTS

Operator:	OGRID:
Permian Resources Operating, LLC	372165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	530103
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

V	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.
V	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.
V	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.
V	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.
V	I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations.

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 530103

CONDITIONS

Operator:	OGRID:
Permian Resources Operating, LLC	372165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	530103
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
jdoolingpr	If the information provided in this report requires an amendment, submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	11/26/2025