

Natural Gas Analysis Report

SAN JUAN DIVISION

Sample Information

Sample Information	
Sample Name	ROMERO GC A1A BH API#: 30-045-26213
TECH	Tim Doering
GC Serial	GC1008B621
Operator	XTO
Report Date	2017-07-18 15:54:00

Component Results

Component Name	Raw Amount	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	0.7540	0.7457	0.0	0.00721	0.082
Oxygen	0.0160	0.0158	0.0	0.00017	0.001
Methane	88.1020	87.1305	882.1	0.48262	14.811
Carbon Dioxide	0.1030	0.1019	0.0	0.00155	0.017
Ethane	6.2950	6.2256	110.4	0.06463	1.669
Propane	3.1620	3.1271	78.9	0.04761	0.864
I-Butane	0.6640	0.6567	21.4	0.01318	0.215
N-Butane	0.8940	0.8841	28.9	0.01774	0.279
I-Pentane	0.4120	0.4075	16.3	0.01015	0.149
N-Pentane	0.2900	0.2868	11.5	0.00714	0.104
Hexanes	0.4230	0.4183	19.9	0.01245	0.172
Heptanes	0.0000	0.0000	0.0	0.00000	0.000
Octanes	0.0000	0.0000	0.0	0.00000	0.000
Nonanes	0.0000	0.0000	0.0	0.00000	0.000
Hydrogen Sulfide	0.0000	0.0000	0.0	0.00000	0.000
Water	0.0000	0.0000	0.0	0.00000	0.000
Total:	101.1150	100.0000	1169.5	0.66446	18.367

Results Summary

Result	Dry	Sat.
Total Normalized Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	89.0	
Flowing Pressure (psia)	55.0	
Gross Heating Value (BTU / Real cu.ft.)	1172.9	1153.0
Relative Density (G), Real	0.6661	0.6657
Compressibility (Z) Factor	0.9970	0.9967
Total GPM	18.367	18.154

Natural Gas Analysis Report

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Sample Information

	Sample Information
Sample Name	ROMERO GC A1A CASEING API #: 30-045-26213
TECH	Tim Doering
GC Serial	GC1008B621
Operator	XTO
Report Date	2017-07-13 12:28:31

Component Results

Component Name	Raw Amount	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	0.0210	0.0210	0.0	0.00020	0.002
Oxygen	0.0020	0.0020	0.0	0.00002	0.000
Methane	86.8690	86.6972	877.7	0.48022	14.738
Carbon Dioxide	0.4520	0.4511	0.0	0.00685	0.077
Ethane	7.1070	7.0930	125.8	0.07364	1.902
Propane	3.4400	3.4332	86.6	0.05227	0.948
I-Butane	0.5160	0.5150	16.8	0.01034	0.169
N-Butane	0.8710	0.8693	28.4	0.01745	0.275
I-Pentane	0.2870	0.2864	11.5	0.00713	0.105
N-Pentane	0.2720	0.2715	10.9	0.00676	0.099
Hexanes	0.3610	0.3603	17.2	0.01072	0.149
Heptanes	0.0000	0.0000	0.0	0.00000	0.000
Octanes	0.0000	0.0000	0.0	0.00000	0.000
Nonanes	0.0000	0.0000	0.0	0.00000	0.000
Hydrogen Sulfide	0.0000	0.0000	0.0	0.00000	0.000
Water	0.0000	0.0000	0.0	0.00000	0.000
Total:	100.1980	100.0000	1174.8	0.66560	18.465

Results Summary

Result	Dry	Sat.
Total Normalized Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	90.0	
Flowing Pressure (psia)	55.0	
Gross Heating Value (BTU / Real cu.ft.)	1178.4	1158.3
Relative Density (G), Real	0.6673	0.6668
Compressibility (Z) Factor	0.9970	0.9966
Total GPM	18.465	18.250