

Natural Gas Analysis Report SAN JUAN DIVISION

OIL CONS. DIV DIST. 3
JUL 26 2016

Sample Information

Sample Information	
Sample Name	BARKERDOME 22 CASEING
TECH	Tim Doering
GC Serial	GC1008B621
Report Date	2016-07-13 10:44:42

Component Results

Component Name	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	0.8655	0.0	0.00837	0.095
Oxygen	0.0139	0.0	0.00015	0.001
Methane	87.4505	885.3	0.48439	14.865
Carbon Dioxide	1.4773	0.0	0.02245	0.253
Ethane	5.5400	98.3	0.05752	1.486
Propane	2.2980	58.0	0.03499	0.635
I-Butane	0.4109	13.4	0.00825	0.135
N-Butane	0.6685	21.9	0.01342	0.211
I-Pentane	0.2626	10.5	0.00654	0.096
N-Pentane	0.2099	8.4	0.00523	0.076
Hexanes	0.3920	18.7	0.01166	0.162
Heptanes	0.2567	14.2	0.00888	0.119
Octanes	0.0856	5.4	0.00338	0.044
Nonanes	0.0686	4.8	0.00304	0.039
Hydrogen Sulfide	0.0000	0.0	0.00000	0.000
Water	0.0000	0.0	0.00000	0.000
Total:	100.0000	1138.7	0.66825	18.217

Results Summary

Result	Dry	Sat.
Total Normalized Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	81.0	
Flowing Pressure (psia)	10.0	
Gross Heating Value (BTU / Real cu.ft.)	1142.1	1122.6
Relative Density (G), Real	0.6699	0.6694
Compressibility (Z) Factor	0.9971	0.9967
Total GPM	18.217	18.006

Natural Gas Analysis Report SAN JUAN DIVISION

Sample Information

Sample Information	
Sample Name	BARKERDOME 22 BH
TECH	Tim Doering
GC Serial	GC1008B621
Report Date	2016-07-13 10:38:09

Component Results

Component Name	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	0.8251	0.0	0.00798	0.091
Oxygen	0.0167	0.0	0.00018	0.001
Methane	86.9402	880.1	0.48156	14.778
Carbon Dioxide	1.5658	0.0	0.02379	0.268
Ethane	5.8369	103.5	0.06060	1.565
Propane	2.5344	63.9	0.03859	0.700
I-Butane	0.4244	13.8	0.00852	0.139
N-Butane	0.7426	24.3	0.01490	0.235
I-Pentane	0.2888	11.6	0.00719	0.106
N-Pentane	0.2230	9.0	0.00556	0.081
Hexanes	0.3625	17.3	0.01079	0.149
Heptanes	0.1709	9.4	0.00591	0.079
Octanes	0.0422	2.6	0.00166	0.022
Nonanes	0.0265	1.9	0.00117	0.015
Hydrogen Sulfide	0.0000	0.0	0.00000	0.000
Water	0.0000	0.0	0.00000	0.000
Total:	100.0000	1137.4	0.66841	18.230

Results Summary

Result	Dry	Sat.
Total Normalized Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	81.0	
Flowing Pressure (psia)	8.0	
Gross Heating Value (BTU / Real cu.ft.)	1140.8	1121.3
Relative Density (G), Real	0.6701	0.6695
Compressibility (Z) Factor	0.9971	0.9967
Total GPM	18.230	18.019

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Sample Information

Sample Information	
Sample Name	BARKERDOME 22 TUBEING
TECH	Tim Doering
GC Serial	GC1008B621
Report Date	2016-07-13 10:50:31

Component Results

Component Name	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	1.0199	0.0	0.00986	0.112
Oxygen	0.0146	0.0	0.00016	0.001
Methane	90.5143	916.3	0.50136	15.380
Carbon Dioxide	0.5358	0.0	0.00814	0.092
Ethane	4.7688	84.6	0.04951	1.278
Propane	1.7871	45.1	0.02721	0.493
I-Butane	0.2987	9.7	0.00599	0.098
N-Butane	0.4577	15.0	0.00919	0.145
I-Pentane	0.1552	6.2	0.00387	0.057
N-Pentane	0.1318	5.3	0.00328	0.048
Hexanes	0.1893	9.0	0.00563	0.078
Heptanes	0.0878	4.8	0.00304	0.041
Octanes	0.0224	1.4	0.00088	0.012
Nonanes	0.0166	1.2	0.00074	0.009
Hydrogen Sulfide	0.0000	0.0	0.00000	0.000
Water	0.0000	0.0	0.00000	0.000
Total:	100.0000	1098.6	0.62886	17.845

Results Summary

Result	Dry	Sat.
Total Normalized Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	81.0	
Flowing Pressure (psia)	85.0	
Gross Heating Value (BTU / Real cu.ft.)	1101.4	1082.7
Relative Density (G), Real	0.6302	0.6303
Compressibility (Z) Factor	0.9974	0.9971
Total GPM	17.845	17.640