

Natural Gas Analysis Report

SAN JUAN DIVISION

Sample Information

Sample Information	
Sample Name	UTE INDIANS A55 TUBING <i>API # 30-045-34824</i>
TECH	Tim Doering
GC Serial	GC1008B621
Report Date	2015-05-27 08:44:44

Component Results

Component Name	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	1.0472	0.0	0.01013	0.115
Oxygen	0.0059	0.0	0.00007	0.001
Methane	92.1172	932.5	0.51024	15.650
Carbon Dioxide	2.2618	0.0	0.03437	0.387
Ethane	1.4724	26.1	0.01529	0.395
Propane	0.4715	11.9	0.00718	0.130
I-Butane	0.1644	5.4	0.00330	0.054
N-Butane	0.2923	9.6	0.00587	0.092
I-Pentane	0.1309	5.2	0.00326	0.048
N-Pentane	0.1496	6.0	0.00373	0.054
Hexanes	0.1053	5.0	0.00313	0.043
Heptanes	0.0226	1.2	0.00078	0.010
Octanes	0.0679	4.3	0.00268	0.035
Nonanes	0.0138	1.0	0.00061	0.008
Hydrogen Sulfide	1.6772	10.7	0.01974	0.227
Water	0.0000	0.0	0.00000	0.000
Total:	100.0000	1018.9	0.62036	17.249

Results Summary

Result	Dry	Sat.
Total Normalized Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	70.0	
Flowing Pressure (psia)	375.0	
Gross Heating Value (BTU / Real cu.ft.)	1021.3	1003.9
Relative Density (G), Real	0.6216	0.6218
Compressibility (Z) Factor	0.9976	0.9973
Total GPM	17.249	17.055

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Sample Information

Sample Information	
Sample Name	UTE INDIANS A55 BH
TECH	Tim Doering
GC Serial	GC1008B621
Report Date	2015-04-24 12:53:21

API # 30-045-34824

Component Results

Component Name	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	1.2121	0.0	0.01172	0.134
Oxygen	0.0157	0.0	0.00017	0.001
Methane	84.6787	857.2	0.46904	14.396
Carbon Dioxide	0.0000	0.0	0.00000	0.000
Ethane	7.3728	130.8	0.07654	1.977
Propane	4.4455	112.1	0.06768	1.228
I-Butane	0.4560	14.9	0.00915	0.150
N-Butane	1.0513	34.4	0.02110	0.332
I-Pentane	0.2501	10.0	0.00623	0.092
N-Pentane	0.2432	9.8	0.00606	0.088
Hexanes	0.1569	7.5	0.00467	0.065
Heptanes	0.0755	4.2	0.00261	0.035
Octanes	0.0373	2.3	0.00147	0.019
Nonanes	0.0049	0.3	0.00022	0.003
Hydrogen Sulfide	0.0000	0.0	0.00000	0.000
Water	0.0000	0.0	0.00000	0.000
Total:	100.0000	1183.5	0.67667	18.520

Results Summary

Result	Dry	Sat.
Total Normalized Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	65.0	
Flowing Pressure (psia)	65.0	
Gross Heating Value (BTU / Real cu.ft.)	1187.1	1166.9
Relative Density (G), Real	0.6785	0.6778
Compressibility (Z) Factor	0.9969	0.9966
Total GPM	18.520	18.305

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Sample Information

Sample Information	
Sample Name	UTE INDIANS A55 CASEING <i>KPI # 30-045-34824</i>
TECH	Tim Doering
GC Serial	GC1008B621
Report Date	2015-05-27 08:38:35

Component Results

Component Name	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	1.5293	0.0	0.01479	0.169
Oxygen	0.0313	0.0	0.00035	0.003
Methane	91.5948	927.2	0.50734	15.566
Carbon Dioxide	2.7521	0.0	0.04182	0.471
Ethane	1.4823	26.3	0.01539	0.397
Propane	0.4836	12.2	0.00736	0.134
I-Butane	0.1674	5.5	0.00336	0.055
N-Butane	0.3104	10.1	0.00623	0.098
I-Pentane	0.1351	5.4	0.00337	0.050
N-Pentane	0.1175	4.7	0.00293	0.043
Hexanes	0.1919	9.1	0.00571	0.079
Heptanes	0.1890	10.4	0.00654	0.087
Octanes	0.6883	43.1	0.02715	0.353
Nonanes	0.1214	8.5	0.00538	0.068
Hydrogen Sulfide	0.2056	1.3	0.00242	0.028
Water	0.0000	0.0	0.00000	0.000
Total:	100.0000	1064.0	0.65012	17.600

Results Summary

Result	Dry	Sat.
Total Normalized Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	70.0	
Flowing Pressure (psia)	450.0	
Gross Heating Value (BTU / Real cu.ft.)	1066.8	1048.6
Relative Density (G), Real	0.6516	0.6513
Compressibility (Z) Factor	0.9973	0.9970
Total GPM	17.600	17.400