

Natural Gas Analysis Report SAN JUAN DIVISION

OIL CONS. DIV DIST. 3

OCT 02 2015

Sample Information

30-045 24851

Sample Information	
Sample Name	FARMINGTON TOWNSITE COM 1E BH
TECH	Tim Doering
GC Serial	GC1008B621
Report Date	2015-08-21 16:14:59

Component Results

Component Name	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	0.6139	0.0	0.00594	0.068
Oxygen	0.0186	0.0	0.00021	0.002
Methane	82.4638	834.8	0.45677	14.021
Carbon Dioxide	1.0484	0.0	0.01593	0.179
Ethane	9.4923	168.4	0.09855	2.546
Propane	3.8591	97.3	0.05875	1.066
I-Butane	0.5541	18.1	0.01112	0.182
N-Butane	1.0219	33.4	0.02051	0.323
I-Pentane	0.3413	13.7	0.00850	0.125
N-Pentane	0.3315	13.3	0.00826	0.121
Hexanes	0.1903	9.1	0.00566	0.078
Heptanes	0.0520	2.9	0.00180	0.024
Octanes	0.0069	0.4	0.00027	0.004
Nonanes	0.0059	0.4	0.00026	0.003
Hydrogen Sulfide	0.0000	0.0	0.00000	0.000
Water	0.0000	0.0	0.00000	0.000
Total:	100.0000	1191.8	0.69253	18.743

Results Summary

Result	Dry	Sat.
Total Normalized Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	88.0	
Flowing Pressure (psia)	100.0	
Gross Heating Value (BTU / Real cu.ft.)	1195.6	1175.2
Relative Density (G), Real	0.6945	0.6935
Compressibility (Z) Factor	0.9968	0.9964
Total GPM	18.743	18.523

Natural Gas Analysis Report

SAN JUAN DIVISION

Sample Information

Sample Information	
Sample Name	FARMINGTON TOWNSITE COM 1E CASING
TECH	Tim Doering
GC Serial	GC1008B621
Report Date	2015-08-21 16:20:51

Component Results

Component Name	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	0.5810	0.0	0.00562	0.064
Oxygen	0.0088	0.0	0.00010	0.001
Methane	83.3004	843.3	0.46140	14.162
Carbon Dioxide	1.0432	0.0	0.01585	0.179
Ethane	9.3523	165.9	0.09710	2.508
Propane	3.7242	93.9	0.05670	1.029
I-Butane	0.5201	17.0	0.01044	0.171
N-Butane	0.9284	30.4	0.01863	0.294
I-Pentane	0.2630	10.5	0.00655	0.096
N-Pentane	0.1963	7.9	0.00489	0.071
Hexanes	0.0667	3.2	0.00198	0.028
Heptanes	0.0088	0.5	0.00030	0.004
Octanes	0.0029	0.2	0.00011	0.001
Nonanes	0.0039	0.3	0.00017	0.002
Hydrogen Sulfide	0.0000	0.0	0.00000	0.000
Water	0.0000	0.0	0.00000	0.000
Total:	100.0000	1173.0	0.67985	18.609

Results Summary

Result	Dry	Sat.
Total Normalized Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	88.0	
Flowing Pressure (psia)	100.0	
Gross Heating Value (BTU / Real cu.ft.)	1176.6	1156.5
Relative Density (G), Real	0.6816	0.6809
Compressibility (Z) Factor	0.9969	0.9966
Total GPM	18.609	18.392

Natural Gas Analysis Report SAN JUAN DIVISION

Sample Information

Sample Information	
Sample Name	FARMINGTON TOWNSITE COM 1E TUBING
TECH	Tim Doering
GC Serial	GC1008B621
Report Date	2015-08-21 16:27:02

Component Results

Component Name	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	0.5817	0.0	0.00563	0.064
Oxygen	0.0078	0.0	0.00009	0.001
Methane	83.0396	840.6	0.45996	14.119
Carbon Dioxide	1.0392	0.0	0.01579	0.178
Ethane	9.3058	165.1	0.09661	2.496
Propane	3.6797	92.8	0.05602	1.017
I-Butane	0.5181	16.9	0.01040	0.170
N-Butane	0.9776	32.0	0.01962	0.309
I-Pentane	0.2923	11.7	0.00728	0.107
N-Pentane	0.2737	11.0	0.00682	0.100
Hexanes	0.1681	8.0	0.00500	0.069
Heptanes	0.0391	2.2	0.00135	0.018
Octanes	0.0284	1.8	0.00112	0.015
Nonanes	0.0489	3.4	0.00217	0.028
Hydrogen Sulfide	0.0000	0.0	0.00000	0.000
Water	0.0000	0.0	0.00000	0.000
Total:	100.0000	1185.5	0.68785	18.690

Results Summary

Result	Dry	Sat.
Total Normalized Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	88.0	
Flowing Pressure (psia)	100.0	
Gross Heating Value (BTU / Real cu.ft.)	1189.2	1169.0
Relative Density (G), Real	0.6897	0.6889
Compressibility (Z) Factor	0.9968	0.9965
Total GPM	18.690	18.471