

Natural Gas Analysis Report SAN JUAN DIVISION

Sample Information

30-045-23779

Sample Information	
Sample Name	STANOLIND SWD INT CASEING
TECH	Tim Doering
GC Serial	GC1008B621
Report Date	2015-04-30 07:56:45

Component Results

Component Name	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	0.5418	0.0	0.00524	0.060
Oxygen	0.0643	0.0	0.00071	0.006
Methane	83.6055	846.4	0.46309	14.219
Carbon Dioxide	0.0000	0.0	0.00000	0.000
Ethane	9.0796	161.1	0.09426	2.436
Propane	3.4699	87.5	0.05283	0.959
I-Butane	0.6129	20.0	0.01230	0.201
N-Butane	0.9734	31.8	0.01953	0.308
I-Pentane	0.3586	14.4	0.00893	0.132
N-Pentane	0.3693	14.8	0.00920	0.134
Hexanes	0.3157	15.0	0.00939	0.130
Heptanes	0.1598	8.8	0.00553	0.074
Octanes	0.1023	6.4	0.00403	0.053
Nonanes	0.3469	24.3	0.01536	0.196
Hydrogen Sulfide	0.0000	0.0	0.00000	0.000
Water	0.0000	0.0	0.00000	0.000
Total:	100.0000	1230.6	0.70042	18.906

Results Summary

Result	Dry	Sat.
Total Normalized Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	50.0	
Flowing Pressure (psia)	50.0	
Gross Heating Value (BTU / Real cu.ft.)	1234.8	1213.8
Relative Density (G), Real	0.7025	0.7014
Compressibility (Z) Factor	0.9966	0.9962
Total GPM	18.906	18.685

Natural Gas Analysis Report SAN JUAN DIVISION

Sample Information

30-045-23779

Sample Information	
Sample Name	STANOLIND SWD BH
TECH	Tim Doering
GC Serial	GC1008B621
Report Date	2015-04-30 08:03:50

Component Results

Component Name	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	6.2452	0.0	0.06040	0.688
Oxygen	4.8842	0.0	0.05396	0.434
Methane	84.6950	857.4	0.46913	14.388
Carbon Dioxide	0.0000	0.0	0.00000	0.000
Ethane	0.9276	16.5	0.00963	0.249
Propane	0.3398	8.6	0.00517	0.094
I-Butane	0.9613	31.3	0.01929	0.315
N-Butane	0.5392	17.6	0.01082	0.170
I-Pentane	0.5700	22.9	0.01420	0.209
N-Pentane	0.3426	13.8	0.00853	0.124
Hexanes	0.2078	9.9	0.00618	0.086
Heptanes	0.0786	4.3	0.00272	0.036
Octanes	0.0440	2.8	0.00174	0.023
Nonanes	0.1647	11.5	0.00729	0.093
Hydrogen Sulfide	0.0000	0.0	0.00000	0.000
Water	0.0000	0.0	0.00000	0.000
Total:	100.0000	996.6	0.66907	16.909

Results Summary

Result	Dry	Sat
Total Normalized Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	50.0	
Flowing Pressure (psia)	50.0	
Gross Heating Value (BTU / Real cu.ft.)	998.9	981.8
Relative Density (G), Real	0.6703	0.6697
Compressibility (Z) Factor	0.9977	0.9973
Total GPM	16.909	16.721