

Natural Gas Analysis Report

SAN JUAN DIVISION

Sample Information

	Sample Information
Sample Name	MASDEN GC 1 CASING API# : 30-045-07894
TECH	Tim Doering
GC Serial	GC1008B621
Operator	XTO
Report Date	2017-07-13 13:02:20

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	0.0200	0.0207	0.0	0.00020	0.002
Oxygen	0.0060	0.0062	0.0	0.00007	0.001
Methane	72.0770	74.5274	754.5	0.41281	12.694
Carbon Dioxide	0.6390	0.6607	0.0	0.01004	0.113
Ethane	10.0500	10.3917	184.3	0.10789	2.792
Propane	5.2380	5.4161	136.6	0.08246	1.499
I-Butane	1.2730	1.3163	42.9	0.02642	0.433
N-Butane	2.5780	2.6656	87.2	0.05349	0.844
I-Pentane	1.6090	1.6637	66.7	0.04144	0.611
N-Pentane	1.5170	1.5686	63.0	0.03908	0.571
Hexanes	1.7050	1.7630	84.0	0.05246	0.728
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:	96.7120	100.0000	1419.2	0.82635	20.289

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.)	1426.2	1402.0
Relative Density (G), Real	0.8301	0.8269
Compressibility (Z) Factor	0.9951	0.9947
Total GPM	20.289	20.045

Natural Gas Analysis Report SAN JUAN DIVISION

Sample Information

	Sample Information
Sample Name	MASDEN GC 1 TUBING API #: 30-045-07894
TECH	Tim Doering
GC Serial	GC1008B621
Operator	XTO
Report Date	2017-07-13 12:56:47

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	0.0000	0.0000	0.0	0.00000	0.000
Oxygen	0.0000	0.0000	0.0	0.00000	0.000
Methane	0.0000	0.0000	0.0	0.00000	0.000
Carbon Dioxide	0.0000	0.0000	0.0	0.00000	0.000
Ethane	0.0000	0.0000	0.0	0.00000	0.000
Propane	0.0000	0.0000	0.0	0.00000	0.000
I-Butane	0.0000	0.0000	0.0	0.00000	0.000
N-Butane	0.0000	0.0000	0.0	0.00000	0.000
I-Pentane	0.0000	0.0000	0.0	0.00000	0.000
N-Pentane	0.0000	0.0000	0.0	0.00000	0.000
Hexanes	0.0000	0.0000	0.0	0.00000	0.000
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:	0.0000	0.0000	0.0	0.00000	0.000

Results Summary

Result	Dry	Sat.
Total Normalized Mole%	0.0000	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.)	0.0	0.0
Relative Density (G), Real	0.0000	0.0108
Compressibility (Z) Factor	1.0000	1.0000
Total GPM	0.000	5.707