

## Natural Gas Analysis Report

### SAN JUAN DIVISION

#### Sample Information

	Sample Information
Sample Name	GOLDEN EAGLE MINE F4
TECH	Jimmy Petree
GC Serial	CN15136013
Operator	XTO ENERGY
Report Date	2015-08-24 09:39:20

#### Component Results

Component Name	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)	
Nitrogen	0.8740	0.0	0.00845	0.096	
Oxygen	0.0380	0.0	0.00042	0.003	
Methane	94.2717	954.3	0.52217	16.014	
Carbon Dioxide	3.9242	0.0	0.05963	0.671	
Ethane	0.0211	0.4	0.00022	0.006	
Propane	0.0000	0.0	0.00000	0.000	
I-Butane	0.0517	1.7	0.00104	0.017	
N-Butane	0.1371	4.5	0.00275	0.043	
I-Pentane	0.0517	2.1	0.00129	0.019	
N-Pentane	0.1645	6.6	0.00410	0.060	
Hexanes	0.2657	12.7	0.00791	0.109	
Heptanes	0.1803	9.9	0.00624	0.083	
Octanes	0.0158	1.0	0.00062	0.008	
Nonanes	0.0042	0.3	0.00019	0.002	
Hydrogen Sulfide	0.0000	0.0	0.00000	0.000	
Water	0.0000	0.0	0.00000	0.000	
Total:	100.0000	993.5	0.61502	17.133	

#### Results Summary

Result	Dry	Sat.	
Total Normalized Mole%	100.0000	100.0000	
Pressure Base (psia)	14.730		
Temperature Base	60.0		
Flowing Temperature (Deg. F)	70.0		
Flowing Pressure (psia)	5.0		
Gross Heating Value (BTU / Real cu.ft.)	995.7	978.7	
Relative Density (G), Real	0.6161	0.6165	
Compressibility (Z) Factor	0.9977	0.9974	
Total GPM	17.133	16.940	

Pad at zero pressure. Used vacuum pump to inject sample into gc. per Jimmy Petree