

## Natural Gas Analysis Report

### SAN JUAN DIVISION

#### Sample Information

	Sample Information
Sample Name	GOLDEN EAGLE MINE F3
TECH	Jimmy Petree
GC Serial	CN15136013
Operator	XTO ENERGY
Report Date	2015-08-24 09:21:16

#### Component Results

Component Name	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)	
Nitrogen	1.5259	0.0	0.01476	0.168	
Oxygen	0.1393	0.0	0.00154	0.012	
Methane	97.1286	983.3	0.53800	16.495	
Carbon Dioxide	0.8326	0.0	0.01265	0.142	
Ethane	0.0648	1.1	0.00067	0.017	
Propane	0.0000	0.0	0.00000	0.000	
I-Butane	0.0302	1.0	0.00061	0.010	
N-Butane	0.0680	2.2	0.00136	0.021	
I-Pentane	0.0292	1.2	0.00073	0.011	
N-Pentane	0.0713	2.9	0.00178	0.026	
Hexanes	0.0799	3.8	0.00238	0.033	
Heptanes	0.0140	0.8	0.00048	0.006	
Octanes	0.0043	0.3	0.00017	0.002	
Nonanes	0.0043	0.3	0.00019	0.002	
Hydrogen Sulfide	0.0076	0.0	0.00009	0.001	
Water	0.0000	0.0	0.00000	0.000	
Total:	100.0000	996.9	0.57540	16.949	

#### 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)	65.0		
Flowing Pressure (psia)	5.0		
Gross Heating Value (BTU / Real cu.ft.)	998.9	981.8	
Relative Density (G), Real	0.5763	0.5773	
Compressibility (Z) Factor	0.9980	0.9976	
Total GPM	16.949	16.759	

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