

LARAMIE ENERGY, LLC Field Sample  
**NRG SERVICES**  
2524 W. Pinyon Ave Grand Junction, CO 81505 (970) 245-2490

### Sample Information

	Sample Information
Sample Name	632-13-22 20160914
Meter Number	RM6321322
Sample notes	Checked H2S levels with RAE tube and entered analysis results into field RTU
Operators Name	Justin L. Richardson
Method Name	NEW CAL GAS4-16.met
Injection Date	2016-09-14 19:06:51
Report Date	2016-09-14 13:11:33
EZReporter Configuration File	LARAMIE ENERGY, LLC GPM csv H2S 20160210.cfgx
Source Data File	632-13-22 20160914.dat
EZReporter Data File	20160914-131133-632-13-22 20160914.ezrx
NGA Phys. Property Data Source	GPA Standard 2145-09 (FPS)

### Component Results

Component Name	Ret. Time	Peak Area	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)	
Nitrogen	0.331	40010.0	0.0789	0.0	0.00076	0.000	
Methane	0.336	34898835.0	89.6110	907.2	0.49636	0.000	
Carbon Dioxide	0.388	830157.0	1.4455	0.0	0.02196	0.000	
Ethane	0.434	3340710.0	5.4233	96.2	0.05630	1.454	
Propane	0.905	1409862.0	1.8461	46.6	0.02811	0.510	
i-Butane	0.158	1011599.0	0.3636	11.9	0.00730	0.119	
n-Butane	0.175	1252684.0	0.4435	14.5	0.00890	0.140	
i-Pentane	0.233	558044.0	0.1748	7.0	0.00435	0.064	
n-Pentane	0.260	467321.0	0.1438	5.8	0.00358	0.052	
Hexanes	0.000	761429.0	0.2018	9.6	0.00600	0.083	
Heptanes	0.000	784458.0	0.1978	10.9	0.00684	0.091	
Octanes	0.000	231105.0	0.0619	3.9	0.00244	0.032	
Nonanes	0.000	15771.0	0.0060	0.4	0.00027	0.003	
Water	0.000	0.0	0.0000	0.0	0.00000	0.000	
Hydrogen Sulfide	0.613	1639.0	0.0020	0.0	0.00002	0.000	
Total:			100.0000	1113.9	0.64321	2.550	

### Results Summary

Result	Dry	Sat. (Base)	
Total Raw Mole% (Dry)	100.1050		
Pressure Base (psia)	14.730		
Temperature Base	60.0		
Water Mole%	-	1.7407	
Gross Heating Value (BTU / Ideal cu.ft.)	1113.9	1094.5	
Gross Heating Value (BTU / Real cu.ft.)	1116.9	1097.9	
Relative Density (G), Real	0.6447	0.6445	
Compressibility (Z) Factor	0.9973	0.9969	
Wobbe Index	1391.1	1367.5	