

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

### Sample Information

	Sample Information
Sample Name	697-32-18D 20160914
Meter Number	RM6973218D
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 18:51:16
Report Date	2016-09-14 12:58:52
EZReporter Configuration File	LARAMIE ENERGY, LLC GPM csv H2S 20160210.cfgx
Source Data File	697-32-18D 20160914001.dat
EZReporter Data File	20160914-125852-697-32-18D 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	0.332	36097.0	0.0710	0.0	0.00069	0.000	
Methane	0.337	31585797.0	81.2330	822.4	0.44995	0.000	
Carbon Dioxide	0.387	2568684.0	4.4784	0.0	0.06805	0.000	
Ethane	0.431	5300351.0	8.6187	152.9	0.08948	2.312	
Propane	0.891	2456508.0	3.2207	81.2	0.04904	0.890	
i-Butane	0.158	1889515.0	0.6814	22.2	0.01367	0.224	
n-Butane	0.175	2116303.0	0.7504	24.5	0.01506	0.237	
i-Pentane	0.233	838241.0	0.2631	10.6	0.00655	0.097	
n-Pentane	0.260	680466.0	0.2101	8.4	0.00523	0.076	
Hexanes	0.000	770219.0	0.2041	9.7	0.00607	0.084	
Heptanes	0.000	779584.0	0.1971	10.9	0.00682	0.091	
Octanes	0.000	235644.0	0.0630	3.9	0.00248	0.032	
Nonanes	0.000	18877.0	0.0070	0.5	0.00031	0.004	
Water	0.000	0.0	0.0000	0.0	0.00000	0.000	
Hydrogen Sulfide	0.613	1361.0	0.0020	0.0	0.00002	0.000	
Total:			100.0000	1147.2	0.71343	4.048	

### Results Summary

Result	Dry	Sat. (Base)	
Total Raw Mole% (Dry)	99.9460		
Pressure Base (psia)	14.730		
Temperature Base	60.0		
Water Mole%	-	1.7407	
Gross Heating Value (BTU / Ideal cu.ft.)	1147.2	1127.3	
Gross Heating Value (BTU / Real cu.ft.)	1151.0	1131.4	
Relative Density (G), Real	0.7154	0.7141	
Compressibility (Z) Factor	0.9968	0.9964	
Wobbe Index	1360.7	1338.8	