

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

### Sample Information

	Sample Information
Sample Name	797-05-52 20160909
Meter Number	RM7970552
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	2016-09-09 16:39:59
Report Date	2016-09-14 08:01:27
EZReporter Configuration File	LARAMIE ENERGY, LLC GPM csv H2S 20160210.cfgx
Source Data File	797-05-52 20160909001.dat
EZReporter Data File	20160909-104441-797-05-52 20160909.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	36827.0	0.0733	0.0	0.00071	0.000	
Methane	0.336	33078871.0	85.3461	864.0	0.47273	0.000	
Carbon Dioxide	0.387	1625984.0	2.8436	0.0	0.04321	0.000	
Ethane	0.431	4417321.0	7.2060	127.8	0.07481	1.932	
Propane	0.895	1885214.0	2.4793	62.5	0.03775	0.685	
i-Butane	0.158	1475798.0	0.5340	17.4	0.01072	0.175	
n-Butane	0.175	1649981.0	0.5862	19.2	0.01176	0.185	
i-Pentane	0.233	700064.0	0.2198	8.8	0.00548	0.081	
n-Pentane	0.260	568092.0	0.1757	7.1	0.00438	0.064	
Hexanes	0.000	861782.0	0.2299	11.0	0.00684	0.095	
Heptanes	0.000	958662.0	0.2429	13.4	0.00840	0.112	
Octanes	0.000	184758.0	0.0502	3.1	0.00198	0.026	
Nonanes	0.000	2717.0	0.0010	0.1	0.00004	0.001	
Water	0.000	0.0	0.0000	0.0	0.00000	0.000	
Hydrogen Sulfide	0.610	0.0	0.0120	0.1	0.00014	0.002	
Total:			100.0000	1134.4	0.67895	3.358	

### Results Summary

Result	Dry	Sat. (Base)	
Total Raw Mole% (Dry)	99.6260		
Pressure Base (psia)	14.730		
Temperature Base	60.0		
Water Mole%	-	1.7407	
Gross Heating Value (BTU / Ideal cu.ft.)	1134.4	1114.7	
Gross Heating Value (BTU / Real cu.ft.)	1137.8	1118.4	
Relative Density (G), Real	0.6807	0.6800	
Compressibility (Z) Factor	0.9970	0.9966	
Wobbe Index	1379.1	1356.3	