

NATURAL GAS ANALYSIS REPORT

Sampled by:
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Lab Number:	20073611	Analyzed:	08/02/07
Sample From:	Astle 1	Pressure:	
Producer:	GRA EX LLC	Temperature:	
Date:		Location:	6-25-13
Time:		County:	Stafford
Sampler:	Gary	State:	Kansas
Source:	DST 7	Formation:	Miss

	Mole %	GPM
Helium	He: 1.734	0.000
Hydrogen	H2: 0.000	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 16.026	0.000
Carbon Dioxide	CO2: 0.000	0.000
Methane	C1: 73.766	0.000
Ethane	C2: 4.424	1.183
Propane	C3: 2.277	0.627
Iso Butane	iC4: 0.339	0.111
Normal Butane	nC4: 0.775	0.244
Iso Pentane	iC5: 0.144	0.053
Normal Pentane	nC5: 0.219	0.079
Hexanes Plus	C6+: 0.296	0.129

TOTAL: 100.000 2.427
 Z Fact: 0.9979
 SP.GR.: 0.6892
 BTU (SAT): 934.2 @ 14.73 psia
 BTU (DRY): 950.8 @ 14.73 psia
 OCTANE RATING: 104.0

COMMENTS:

0.000