

NATURAL GAS ANALYSIS REPORT

Sampled by:

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Analyzed by:

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Lab Number: 20014137**Analyzed: 09/06/01****Sample From: Virginia 1 4pt****Pressure:****Producer: Horseshoe Operating****Temperature:****Date: Location: 6-21-40****Time:****County: Hamilton****Sampler:****State: Kansas****Source:****Formation: Winfield**

	Mole %	GPM
Helium	He: 0.662	0.000
Hydrogen	H2: 0.043	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 26.864	0.000
Carbon Dioxide	CO2: 0.006	0.000
Methane	C1: 61.472	0.000
Ethane	C2: 5.469	1.463
Propane	C3: 3.334	0.919
Iso Butane	iC4: 0.360	0.118
Normal Butane	nC4: 1.048	0.330
Iso Pentane	iC5: 0.210	0.077
Normal Pentane	nC5: 0.263	0.095
Hexanes Plus	C6+: 0.269	0.117

TOTAL: 100.000 3.119**Z Fact: 0.9980****SP.GR.: 0.7595**

BTU (SAT): 868.7 @ 14.73 psia
BTU (DRY): 884.1 @ 14.73 psia
OCTANE RATING: 90.5

COMMENTS:**0.000**