

NATURAL GAS ANALYSIS REPORT

Sampled by:

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Lab Number: 20011621**Analyzed: 03/29/01****Sample From:** Buck 4pt**Pressure:****Producer:** Horshoe Operating**Temperature:****Date: Location: 3-23-40****Time:****County:** Hamilton**Sampler:****State:** Kansas**Source:****Formation:** Winfield

	Mole %	GPM
Helium	He: 0.592	0.000
Hydrogen	H2: 0.000	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 24.779	0.000
Carbon Dioxide	CO2: 0.026	0.000
Methane	C1: 63.223	0.000
Ethane	C2: 5.686	1.521
Propane	C3: 3.500	0.964
Iso Butane	iC4: 0.393	0.129
Normal Butane	nC4: 1.041	0.328
Iso Pentane	iC5: 0.215	0.079
Normal Pentane	nC5: 0.260	0.094
Hexanes Plus	C6+: 0.285	0.124

TOTAL: 100.000 3.239**Z Fact: 0.9979****SP.GR.: 0.7551**

BTU (SAT): 895.8 @ 14.73 psia
BTU (DRY): 911.6 @ 14.73 psia
OCTANE RATING: 93.2

COMMENTS:

0.000