

NATURAL GAS ANALYSIS REPORT

Sampled by:
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Lab Number: 20014135	Analyzed: 09/06/01
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Sample From: Hill 2 4pt	Pressure:	
Producer: Horseshoe Operating	Temperature:	

Date: Location: 11-22-40	
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Time:	County: Hamilton	
Sampler:	State: Kansas	
Source:	Formation: Winfield	

	Mole %	GPM
Helium	He: 0.611	0.000
Hydrogen	H2: 0.003	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 25.686	0.000
Carbon Dioxide	CO2: 0.011	0.000
Methane	C1: 62.649	0.000
Ethane	C2: 5.610	1.500
Propane	C3: 3.402	0.937
Iso Butane	iC4: 0.364	0.119
Normal Butane	nC4: 0.977	0.308
Iso Pentane	iC5: 0.190	0.070
Normal Pentane	nC5: 0.232	0.084
Hexanes Plus	C6+: 0.265	0.116

TOTAL: 100.000 3.134

Z Fact: 0.9979

SP.GR.: 0.7543

BTU (SAT): 880.1 @ 14.73 psia
 BTU (DRY): 895.7 @ 14.73 psia
 OCTANE RATING: 92.1

COMMENTS: 0.000