

NATURAL GAS ANALYSIS REPORT

Sampled by: Analyzed by:

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Lab Number: 20030663

Analyzed: 02/07/03

Sample From: Hogan #1

Pressure:

Producer:

Temperature:

Date: Location: 16-23-18

Time:

County: Pawnee

Sampler:

State: Kansas

Source: Production Test

Formation: Cherokee

	Mole %	GPM
Helium	He: 2.545	0.000
Hydrogen	H2: 0.000	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 47.829	0.000
Carbon Dioxide	CO2: 0.127	0.000
Methane	C1: 43.341	0.000
Ethane	C2: 3.170	0.848
Propane	C3: 1.210	0.333
Iso Butane	iC4: 0.344	0.113
Normal Butane	nC4: 0.653	0.206
Iso Pentane	iC5: 0.165	0.060
Normal Pentane	nC5: 0.257	0.093
Hexanes Plus	C6+: 0.359	0.157

TOTAL: 100.000 1.810

Z Fact: 0.9988

SP.GR.: 0.8028

BTU (SAT): 583.8 @ 14.73 psia

BTU (DRY): 594.2 @ 14.73 psia

OCTANE RATING: 62.1

COMMENTS:

0.000