

NATURAL GAS ANALYSIS REPORT

Sampled by:

Trilobite Testing, L. L. C.
Hays, Kansas
Scott City, Kansas
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Analyzed by:

Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 620-624-5389
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Lab Number: 20014232**Analyzed: 09/06/01**

Sample From: Kelly 3 DST 1

Pressure:

Producer: Bowers Drilling

Temperature:

Date: Location: 27-32-13

Time:

County: Barber

Sampler:

State: Kansas

Source:

Formation: Doug Sand

	Mole %	GPM
Helium	He: 0.270	0.000
Hydrogen	H2: 0.006	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 7.069	0.000
Carbon Dioxide	CO2: 0.061	0.000
Methane	C1: 84.227	0.000
Ethane	C2: 4.043	1.081
Propane	C3: 1.861	0.513
Iso Butane	iC4: 0.282	0.092
Normal Butane	nC4: 0.732	0.231
Iso Pentane	iC5: 0.278	0.102
Normal Pentane	nC5: 0.398	0.144
Hexanes Plus	C6+: 0.773	0.337

TOTAL: 100.000 2.500

Z Fact: 0.9975

SP.GR.: 0.6705

BTU (SAT): 1055.3 @ 14.73 psia

BTU (DRY): 1074.0 @ 14.73 psia

OCTANE RATING: 117.0

COMMENTS:

0.000

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Phone: 620-624-5389
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Lab Number: 20014307

Analyzed: 09/13/01

Sample From: Kelly 3 DST 2
Producer: Bowers Drilling

Pressure:
Temperature:

Date: Location: 27-32-13

Time:
Sampler:
Source:

County: Barber
State: Kansas
Formation: Miss

	Mole %	GPM
Helium	He: 0.172	0.000
Hydrogen	H2: 0.019	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 8.375	0.000
Carbon Dioxide	CO2: 0.029	0.000
Methane	C1: 75.325	0.000
Ethane	C2: 7.005	1.873
Propane	C3: 4.220	1.163
Iso Butane	iC4: 0.608	0.199
Normal Butane	nC4: 1.417	0.447
Iso Pentane	iC5: 0.386	0.141
Normal Pentane	nC5: 0.492	0.178
Hexanes Plus	C6+: 1.952	0.852

TOTAL: 100.000 4.853

Z Fact: 0.9967

SP.GR.: 0.7641

BTU (SAT): 1178.1 @ 14.73 psia

BTU (DRY): 1199.0 @ 14.73 psia

OCTANE RATING: 112.0

COMMENTS:

0.000