

NATURAL GAS ANALYSIS REPORT

Sampled by:

Trilobite Testing, L. L. C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 875-625-5620

Analyzed by:

Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 620-624-5389
Fax: 620-626-7108

Lab Number: 20012255

Analyzed: 05/04/01

Sample From: McMoran 3 DST 2

Pressure:

Producer: Woolsey Petroleum

Temperature:

Date: Location: 8-35-16

Time:

County: Comanche

Sampler:

State: Kansas

Source:

Formation: Lans B

	Mole %	GPM
Helium	He: 0.206	0.000
Hydrogen	H2: 0.000	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 6.840	0.000
Carbon Dioxide	CO2: 0.011	0.000
Methane	C1: 84.028	0.000
Ethane	C2: 5.140	1.375
Propane	C3: 2.137	0.589
Iso Butane	iC4: 0.265	0.087
Normal Butane	nC4: 0.660	0.208
Iso Pentane	iC5: 0.175	0.064
Normal Pentane	nC5: 0.210	0.076
Hexanes Plus	C6+: 0.328	0.143

TOTAL: 100.000 2.542

Z Fact: 0.9976

SP.GR.: 0.6585

BTU (SAT): 1042.3 @ 14.73 psia

BTU (DRY): 1060.7 @ 14.73 psia

OCTANE RATING: 117.8

COMMENTS:

0.000

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Lab Number: 20012256

Analyzed: 05/04/01

Sample From: McMoran 3 DST 3
Producer: Woolsey Petroleum

Pressure:
Temperature:

Date: Location: 8-35-16

Time:
Sampler:
Source:

County: Comanche
State: Kansas
Formation: Lans I

	Mole %	GPM
Helium	He: 0.075	0.000
Hydrogen	H2: 0.004	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 1.013	0.000
Carbon Dioxide	CO2: 0.011	0.000
Methane	C1: 90.037	0.000
Ethane	C2: 4.203	1.124
Propane	C3: 2.361	0.651
Iso Butane	iC4: 0.333	0.109
Normal Butane	nC4: 0.916	0.289
Iso Pentane	iC5: 0.234	0.086
Normal Pentane	nC5: 0.291	0.105
Hexanes Plus	C6+: 0.522	0.228

TOTAL: 100.000 2.591

Z Fact: 0.9974

SP.GR.: 0.6453

BTU (SAT): 1117.5 @ 14.73 psia

BTU (DRY): 1137.3 @ 14.73 psia

OCTANE RATING: 125.3

COMMENTS:

0.000