

NATURAL GAS ANALYSIS REPORT

Sampled by:

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

Caraway Analytical, Inc
 P. O. Box 2137
 Liberal, Kansas 67905
 Phone: 316-624-5389
 Fax: 316-626-7108

Lab Number: 20005240 Analyzed: 11/19/00

Sample From: Jellison 10-2
 Producer: Samuel Gary Jr.

Pressure:
 Temperature:

Date Location: 10-33-19

Time:
 Sampler:
 Source:

County: Comanche
 State: Kansas
 Formation: Cherokee

	Mole %	GPM
Helium	He: 0.092	0.000
Hydrogen	H2: 0.008	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 1.539	0.000
Carbon Dioxide	CO2: 0.190	0.000
Methane	C1: 93.045	0.000
Ethane	C2: 2.896	0.775
Propane	C3: 1.046	0.288
Iso Butane	iC4: 0.165	0.054
Normal Butane	nC4: 0.373	0.118
Iso Pentane	iC5: 0.118	0.043
Normal Pentane	nC5: 0.128	0.046
Hexanes Plus	C6+: 0.400	0.175

TOTAL: 100.000 1.498

Z Fact: 0.9977

SP.GR.: 0.6107

BTU (SAT): 1051.5 @ 14.73 psia

BTU (DRY): 1070.1 @ 14.73 psia

OCTANE RATING: 125.7

COMMENTS:

0.000

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Phone: 316-624-5389
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Lab Number: 20003238 Analyzed: 06/06/00

Sample From: Jellison 10-2 DST 1 Pressure:
Producer: Samuel Gary Jr Temperature:

Date: Location: 10-33-19

Time: County: Comanche
Sampler: State: Kansas
Source: Formation: Marmaton

	Mole %	GPM
Helium	He: 0.137	0.000
Hydrogen	H2: 0.006	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 3.373	0.000
Carbon Dioxide	CO2: 0.261	0.000
Methane	C1: 87.263	0.000
Ethane	C2: 3.807	1.018
Propane	C3: 2.020	0.557
Iso Butane	iC4: 0.303	0.099
Normal Butane	nC4: 0.946	0.298
Iso Pentane	iC5: 0.302	0.111
Normal Pentane	nC5: 0.371	0.134
Hexanes Plus	C6+: 1.211	0.528

TOTAL: 100.000 2.745

Z Fact: 0.9973

SP.GR.: 0.6733

BTU (SAT): 1115.3 @ 14.73 psia

BTU (DRY): 1135.0 @ 14.73 psia

OCTANE RATING: 121.1

COMMENTS:

0.000