

From: Robert Caraway Caraway Analytical, Inc. Fax: 316-626-7108
To: Simpson, Paul Trilobite Testing, L. L. C. Fax: 1-913-625-5620

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NATURAL GAS ANALYSIS REPORT

Sampled by:
Trilobite Testing, L. L. C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

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

Lab Number: 983822
Sample From: Bird 1-28 DST 1
Producer: American Warrior
Date:
Time:
Sampler:
Source:

Analyzed: 09/30/98
Pressure:
Temperature:
Location:
County:
State:
Formation: Miss

	Mole %	GPM
Helium He:	0.020	0.000
Hydrogen H2:	0.000	0.000
Oxygen O2:	9.144	0.000
Nitrogen N2:	32.883	0.000
Carbon Dioxide CO2:	0.090	0.000
Methane C1:	50.554	0.000
Ethane C2:	1.765	0.472
Propane C3:	0.651	0.179
Iso Butane iC4:	0.106	0.035
Normal Butane nC4:	0.232	0.073
Iso Pentane iC5:	0.127	0.046
Normal Pentane nC5:	0.217	0.079
Hexanes Plus C6+:	4.211	1.837
TOTAL:	100.000	2.721
Z Fact:	0.9979	
SP. GR.:	0.8818	
BTU (SAT):	788.6	@ 14.73 psia
BTU (DRY):	802.5	@ 14.73 psia
OCTANE RATING:	69.3	

COMMENTS:

9.144

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

Lab Number: 983823
Sample From: Bird 1-28 DST 2
Producer: American Warrior
Date:
Time:
Sampler:
Source:

Analyzed: 09/30/98
Pressure:
Temperature:
Location:
County:
State:
Formation: Viola

	Mole %	GPM
Helium	He: 0.457	0.000
Hydrogen	H2: 0.040	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 8.671	0.000
Carbon Dioxide	CO2: 0.070	0.000
Methane	C1: 82.661	0.000
Ethane	C2: 4.862	1.300
Propane	C3: 1.791	0.494
Iso Butane	iC4: 0.234	0.077
Normal Butane	nC4: 0.560	0.177
Iso Pentane	iC5: 0.124	0.045
Normal Pentane	nC5: 0.161	0.058
Hexanes Plus	C6+: 0.369	0.161

TOTAL: 100.000 2.312
Z Fact: 0.9977
SP. GR.: 0.6579
BTU (SAT): 1009.1 @ 14.73 psia
BTU (DRY): 1027.0 @ 14.73 psia
OCTANE RATING: 115.2

COMMENTS:

0.000