

# 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

<b>Lab Number: 20011860</b>	<b>Analyzed: 04/10/01</b>
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Sample From: Lubbers #1 DST 1	Pressure:	
Producer: Edmiston Oil Company, Inc.	Temperature:	

<b>Date: Location: 25-29-9</b>	
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Time:	County: Kingman	
Sampler:	State: Kansas	
Source:	Formation: Hertha	

	Mole %	GPM
Helium	He: 0.022	0.000
Hydrogen	H2: 0.003	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 3.780	0.000
Carbon Dioxide	CO2: 0.136	0.000
Methane	C1: 58.352	0.000
Ethane	C2: 15.942	4.264
Propane	C3: 12.953	3.569
Iso Butane	iC4: 1.345	0.440
Normal Butane	nC4: 4.009	1.264
Iso Pentane	iC5: 0.903	0.330
Normal Pentane	nC5: 0.987	0.357
Hexanes Plus	C6+: 1.568	0.684

**TOTAL: 100.000 10.909**

Z Fact: 0.9941

SP.GR.: 0.9355

BTU (SAT): 1513.8 @ 14.73 psia

BTU (DRY): 1540.6 @ 14.73 psia

**OCTANE RATING: 111.4**

COMMENTS:

0.000

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**Lab Number: 20011861**

**Analyzed: 04/10/01**

Sample From: Lubbers #1 DST 2

Pressure:

Producer: Edmiston Oil Company, Inc.

Temperature:

**Date: Location: 25-29-9**

Time:

County: Kingman

Sampler:

State: Kansas

Source:

Formation: Miss

	Mole %	GPM
Helium	He: 0.337	0.000
Hydrogen	H2: 0.000	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 5.917	0.000
Carbon Dioxide	CO2: 0.042	0.000
Methane	C1: 80.556	0.000
Ethane	C2: 6.752	1.806
Propane	C3: 3.536	0.974
Iso Butane	iC4: 0.454	0.149
Normal Butane	nC4: 1.060	0.334
Iso Pentane	iC5: 0.245	0.090
Normal Pentane	nC5: 0.316	0.114
Hexanes Plus	C6+: 0.785	0.342

TOTAL: 100.000 3.809

Z Fact: 0.9972

SP.GR.: 0.7004

BTU (SAT): 1120.2 @ 14.73 psia

BTU (DRY): 1140.0 @ 14.73 psia

**OCTANE RATING: 117.0**

COMMENTS:

0.000