

NATURAL GAS ANALYSIS REPORT

Sampled by:
Trilobite Testing, L.L.C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
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Analyzed by:
Caraway Analytical, L.L.C.
P. O. Box 2137
Liberal, Kansas 67905
Phone: 316-624-5389
Fax: 316-626-7108

Lab Number:	970108	Analyzed:	02/21/97
Sample From:	Bergner 1-16 DST 1	Pressure:	
Producer:	Imperial Oil Prop.	Temperature:	
Date:		Location:	16-32-18
Time:		County:	Comanche
Sampler:		State:	Kansas
Source:		Formation:	Drum

	Mole %	GPM
Helium	He: 0.262	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 10.655	0.000
Carbon Dioxide	CO2: 1.214	0.000
Methane	C1: 79.666	0.000
Ethane	C2: 4.184	1.119
Propane	C3: 2.170	0.598
Iso Butane	iC4: 0.317	0.104
Normal Butane	nC4: 0.754	0.238
Iso Pentane	iC5: 0.193	0.071
Normal Pentane	nC5: 0.205	0.074
Hexanes Plus	C6+: 0.380	0.166
	TOTAL: 100.000	2.369
	Z Fact: 0.9977	
	SP.GR.: 0.6848	
	BTU (SAT): 990.7 @ 14.73 psia	
	BTU (DRY): 1008.2 @ 14.73 psia	
	OCTANE RATING: 111.3	

COMMENTS:

0.000

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Lab Number:	970111	Analyzed:	02/26/97
Sample From:	Bergner 1-16 DST 6	Pressure:	
Producer:	Imperial Oil Prop.	Temperature:	
Date:		Location:	16-32-18
Time:		County:	Comanche
Sampler:		State:	Kansas
Source:		Formation:	Miss.

	Mole %	GPM
Helium	He: 0.114	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 1.822	0.000
Carbon Dioxide	CO2: 0.497	0.000
Methane	C1: 92.142	0.000
Ethane	C2: 3.155	0.844
Propane	C3: 1.048	0.289
Iso Butane	iC4: 0.194	0.063
Normal Butane	nC4: 0.351	0.111
Iso Pentane	iC5: 0.130	0.048
Normal Pentane	nC5: 0.133	0.048
Hexanes Plus	C6+: 0.414	0.181

TOTAL: 100.000 1.583
Z Fact: 0.9977
SP.GR.: 0.6167
BTU (SAT): 1048.7 @ 14.73 psia
BTU (DRY): 1067.2 @ 14.73 psia
OCTANE RATING: 124.8

COMMENTS:

0.000