

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

Lab Number:	980137	Analyzed:	01/27/98
Sample From:	MLP Santala 2-26 DST 1	Pressure:	
Producer:	Hugoton Energy Corp	Temperature:	
Date:		Location:	28-29-34
Time:		County:	Haskell
Sampler:		State:	Kansas
Source:		Formation:	Krider

	Mole %	GPM
Helium	He: 0.105	0.000
Hydrogen	H2: 0.004	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 5.021	0.000
Carbon Dioxide	CO2: 0.195	0.000
Methane	C1: 58.577	0.000
Ethane	C2: 10.409	2.784
Propane	C3: 11.182	3.081
Iso Butane	iC4: 1.878	0.614
Normal Butane	nC4: 4.898	1.544
Iso Pentane	iC5: 1.473	0.539
Normal Pentane	nC5: 1.724	0.624
Hexanes Plus	C6+: 4.534	1.978

TOTAL: 100.000 11.165  
 Z Fact: 0.9930  
 SP.GR.: 1.0235  
 BTU (SAT): 1625.2 @ 14.73 psia  
 BTU (DRY): 1654.0 @ 14.73 psia  
 OCTANE RATING: 106.9

COMMENTS: 0.000

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Lab Number:	980138	Analyzed:	01/27/98
Sample From:	MLP Santala 2-26 DST 4	Pressure:	
Producer:	Hugoton Energy Corp	Temperature:	
Date:		Location:	28-29-34
Time:		County:	Haskell
Sampler:		State:	Kansas
Source:		Formation:	Chester

	Mole %	GPM
Helium	He: 0.357	0.000
Hydrogen	H2: 0.001	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 11.895	0.000
Carbon Dioxide	CO2: 0.169	0.000
Methane	C1: 75.353	0.000
Ethane	C2: 6.078	1.626
Propane	C3: 3.616	0.996
Iso Butane	iC4: 0.480	0.157
Normal Butane	nC4: 1.013	0.319
Iso Pentane	iC5: 0.231	0.085
Normal Pentane	nC5: 0.279	0.101
Hexanes Plus	C6+: 0.528	0.230

TOTAL: 100.000 3.514  
Z Fact: 0.9974  
SP.GR.: 0.7154  
BTU (SAT): 1042.5 @ 14.73 psia  
BTU (DRY): 1060.9 @ 14.73 psia  
OCTANE RATING: 109.6

COMMENTS:

0.000