

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:	973314	Analyzed:	12/01/97
Sample From:	Withers 1-36 DST 5	Pressure:	
Producer:	Berexco	Temperature:	
Date:		Location:	36-29-34
Time:		County:	Haskell
Sampler:		State:	Kansas
Source:		Formation:	Morrow LS

	Mole %	GPM
Helium	He: 0.030	0.000
Hydrogen	H2: 0.016	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 3.341	0.000
Carbon Dioxide	CO2: 0.053	0.000
Methane	C1: 61.601	0.000
Ethane	C2: 11.349	3.035
Propane	C3: 11.093	3.057
Iso Butane	iC4: 2.038	0.667
Normal Butane	nC4: 4.604	1.452
Iso Pentane	iC5: 1.362	0.498
Normal Pentane	nC5: 1.667	0.604
Hexanes Plus	C6+: 2.846	1.242

TOTAL: 100.000 10.554
Z Fact: 0.9936
SP.GR.: 0.9614
BTU (SAT): 1571.9 @ 14.73 psia
BTU (DRY): 1599.8 @ 14.73 psia
OCTANE RATING: 111.3

COMMENTS:

0.000

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Lab Number:	973316	Analyzed:	12/01/97
Sample From:	Withers 1-36 DST 6	Pressure:	
Producer:	Berexco	Temperature:	
Date:		Location:	36-29-34
Time:		County:	Haskell
Sampler:		State:	Kansas
Source:		Formation:	Morrow Sand

	Mole %	GPM
Helium	He: 0.356	0.000
Hydrogen	H2: 0.001	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 11.594	0.000
Carbon Dioxide	CO2: 0.171	0.000
Methane	C1: 75.633	0.000
Ethane	C2: 6.106	1.633
Propane	C3: 3.629	1.000
Iso Butane	iC4: 0.485	0.159
Normal Butane	nC4: 1.013	0.319
Iso Pentane	iC5: 0.233	0.085
Normal Pentane	nC5: 0.280	0.101
Hexanes Plus	C6+: 0.499	0.218

TOTAL: 100.000 3.515
Z Fact: 0.9974
SP.GR.: 0.7117
BTU (SAT): 1044.9 @ 14.73 psia
BTU (DRY): 1063.4 @ 14.73 psia
OCTANE RATING: 110.0

COMMENTS:

0.000