

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: 20003308
Sample From: Holmes #1 DST 1
Producer: Raydon Exploration
Date:
Time:
Sampler:
Source:

Analyzed: 06/12/00
Pressure:
Temperature:
Location: 30-34-30
County: Meade
State: Kansas
Formation: Toronto

	Mole %	GPM
Helium	He: 0.346	0.000
Hydrogen	H2: 0.000	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 18.504	0.000
Carbon Dioxide	CO2: 0.134	0.000
Methane	C1: 65.924	0.000
Ethane	C2: 5.818	1.556
Propane	C3: 4.847	1.336
Iso Butane	iC4: 0.697	0.228
Normal Butane	nC4: 1.784	0.562
Iso Pentane	iC5: 0.452	0.165
Normal Pentane	nC5: 0.533	0.193
Hexanes Plus	C6+: 0.961	0.419

TOTAL: 100.000 4.460

Z Fact: 0.9972

SP.GR.: 0.7886

BTU (SAT): 1047.3 @ 14.73 psia

BTU (DRY): 1065.8 @ 14.73 psia

OCTANE RATING: 99.5

COMMENTS:

0.000



GAS VOLUME REPORT

Holmes #1

~~SECRET~~
DST NO

[illegible]

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Lab Number:	20003309	Analyzed:	06/12/00
Sample From:	Holmes #1 DST 2	Pressure:	
Producer:	Raydon Exploration	Temperature:	
Date:		Location:	30-34-30
Time:		County:	Meade
Sampler:		State:	Kansas
Source:		Formation:	Lansing

	Mole %	GPM
Helium	He: 0.051	0.000
Hydrogen	H2: 0.002	0.000
Oxygen	O2: 0.256	0.000
Nitrogen	N2: 8.110	0.000
Carbon Dioxide	CO2: 0.072	0.000
Methane	C1: 56.804	0.000
Ethane	C2: 10.593	2.833
Propane	C3: 13.396	3.691
Iso Butane	iC4: 1.976	0.646
Normal Butane	nC4: 4.911	1.548
Iso Pentane	iC5: 1.142	0.418
Normal Pentane	nC5: 1.186	0.430
Hexanes Plus	C6+: 1.501	0.655

TOTAL: 100.000 10.221

Z Fact: 0.9942

SP.GR.: 0.9615

BTU (SAT): 1478.9 @ 14.73 psia

BTU (DRY): 1505.0 @ 14.73 psia

OCTANE RATING: 106.1

COMMENTS:

0.256



GAS VOLUME REPORT

Holmes #1

OPERATOR

WELL NAME AND NO.

#2
DST NO

[illegible]