

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, L.L.C.
728 North Roosevelt
Liberal, Kansas 67901
Phone: 316-624-5389
Fax: 316-626-7108

Lab Number: 950120
Sample From: Oxy-Kane #2-36 DST 2
Producer: Murfin Drilling
Date:
Time:
Sampler:
Source:

Analyzed: 02/27/95
Pressure:
Temperature:
Location: 36-32-33W
County: Seward
State: Kansas
Formation: Morrow/
Chester

	Mole %	GPM
Helium	He: 0.276	0.000
Oxygen	O2: 0.000	
Nitrogen	N2: 7.408	0.000
Carbon Dioxide	CO2: 0.138	0.000
Methane	C1: 81.489	0.000
Ethane	C2: 5.716	1.529
Propane	C3: 2.553	0.703
Iso Butane	iC4: 0.450	0.147
Normal Butane	nC4: 0.897	0.283
Iso Pentane	iC5: 0.189	0.069
Normal Pentane	nC5: 0.322	0.117
Hexanes Plus	C6+: 0.562	0.245
TOTAL:	100.000	3.093
Z Fact:	0.9974	
SP.GR.:	0.6833	
BTU (SAT):	1068.0 @ 14.73 psia	
BTU (DRY):	1086.9 @ 14.73 psia	
OCTANE RATING:	116.0	

COMMENTS: Sample entered under vacuum

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Lab Number: 950121
Sample From: Oxy-Kane #2-36 DST 3
Producer: Murfin Drilling
Date:
Time:
Sampler:
Source:

Analyzed: 02/27/95
Pressure:
Temperature:
Location: 36-32-33W
County: Seward
State: Kansas
Formation: Lower
-----Chester

	Mole %	GPM
Helium	He: 0.230	0.000
Oxygen	O2: 0.000	
Nitrogen	N2: 6.317	0.000
Carbon Dioxide	CO2: 0.250	0.000
Methane	C1: 82.173	0.000
Ethane	C2: 5.569	1.489
Propane	C3: 3.160	0.871
Iso Butane	iC4: 0.421	0.138
Normal Butane	nC4: 0.918	0.289
Iso Pentane	iC5: 0.215	0.079
Normal Pentane	nC5: 0.258	0.093
Hexanes Plus	C6+: 0.489	0.213

TOTAL: 100.000 3.173
Z Fact: 0.9974
SP.GR.: 0.6825
BTU (SAT): 1081.9 @ 14.73 psia
BTU (DRY): 1101.1 @ 14.73 psia
OCTANE RATING: 117.3

COMMENTS: Sample entered under vacuum

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Lab Number: 950131
Sample From: Oxy-Kane #2-36 DST 4
Producer: Murfin Drilling
Date:
Time:
Sampler:
Source:

Analyzed: 03/02/95
Pressure:
Temperature:
Location: 36-32-33W
County: Seward
State: Kansas
Formation: St. Louis

	Mole %	GPM
Helium	He: 0.537	0.000
Oxygen	O2: 0.000	
Nitrogen	N2: 15.543	0.000
Carbon Dioxide	CO2: 0.132	0.000
Methane	C1: 72.238	0.000
Ethane	C2: 5.289	1.415
Propane	C3: 2.904	0.800
Iso Butane	iC4: 0.900	0.294
Normal Butane	nC4: 1.164	0.367
Iso Pentane	iC5: 0.465	0.170
Normal Pentane	nC5: 0.308	0.112
Hexanes Plus	C6+: 0.520	0.227
TOTAL:	100.000	3.385
Z Fact:	0.9975	
SP.GR.:	0.7316	
BTU (SAT):	1008.2 @ 14.73 psia	
BTU (DRY):	1026.0 @ 14.73 psia	
OCTANE RATING:	104.8	

COMMENTS: Sample entered under vacuum