

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:	940850	Analyzed:	10/27/94
Sample From:	Kansas City Life #2 DST 1	Pressure:	
Producer:	R. C. Taylor	Temperature:	
Date:		Location:	3-35-31
Time:		County:	Seward
Sampler:		State:	Kansas
Source:		Formation:	Marmaton

	Mole %	GPM
Helium	He:	0.000
Oxygen	O2:	0.000
Nitrogen	N2:	8.037
Carbon Dioxide	CO2:	0.146
Methane	C1:	56.675
Ethane	C2:	11.692
Propane	C3:	14.806
Iso Butane	iC4:	1.532
Normal Butane	nC4:	4.270
Iso Pentane	iC5:	0.817
Normal Pentane	nC5:	0.977
Hexanes Plus	C6+:	1.048

TOTAL: 100.000 10.164
 Z Fact: 0.9945
 SP.GR.: 0.9408
 BTU (SAT): 1452.4 @ 14.73 psia
 BTU (DRY): 1478.1 @ 14.73 psia
 OCTANE RATING: 106.9

COMMENTS: Sample entered under vacuum
Insufficient pressure for Helium analysis

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Lab Number:	940554	Analyzed:	10/29/94
Sample From:	Kansas City Life #2 DST 2	Pressure:	
Producer:	R. C. Taylor	Temperature:	
Date:		Location:	3-35-31
Time:		County:	Seward
Sampler:		State:	Kansas
Source:		Formation:	Marmaton

	Mole %	GPM
Helium	He:	0.000
Oxygen	O2: 16.089	0.000
Nitrogen	N2: 83.841	0.000
Carbon Dioxide	CO2: 0.070	0.000
Methane	C1: 0.000	0.000
Ethane	C2: 0.000	0.000
Propane	C3: 0.000	0.000
Iso Butane	iC4: 0.000	0.000
Normal Butane	nC4: 0.000	0.000
Iso Pentane	iC5: 0.000	0.000
Normal Pentane	nC5: 0.000	0.000
Hexanes Plus	C6+: 0.000	0.000
TOTAL:	100.000	0.000
Z Fact:	0.9997	
SP.GR.:	0.9901	
BTU (SAT):	0.0 @ 14.73 psia	
BTU (DRY):	0.0 @ 14.73 psia	
OCTANE RATING:	0.0	

COMMENTS: Sample lost due to equipment malfunction.

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

Lab Number:	940560	Analyzed:	10/31/94
Sample From:	Kansas City Life #2 DST 3	Pressure:	
Producer:	R. C. Taylor	Temperature:	
Date:		Location:	3-35-31
Time:		County:	Seward
Sampler:		State:	Kansas
Source:		Formation:	Morrow

	Mole %	GPM
Helium	He: 0.086	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 2.270	0.000
Carbon Dioxide	CO2: 0.321	0.000
Methane	C1: 85.346	0.000
Ethane	C2: 5.499	1.471
Propane	C3: 3.438	0.947
Iso Butane	iC4: 0.521	0.170
Normal Butane	nC4: 1.083	0.341
Iso Pentane	iC5: 0.328	0.120
Normal Pentane	nC5: 0.357	0.129
Hexanes Plus	C6+: 0.751	0.328
	TOTAL: 100.000	3.507
	Z Fact: 0.9971	
	SP.GR.: 0.6846	
	BTU (SAT): 1149.8 @ 14.73 psia	
	BTU (DRY): 1170.1 @ 14.73 psia	
	OCTANE RATING: 122.0	

COMMENTS: Helium calculated based on Nitrogen
 Sample entered under vacuum