

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: 950637
Sample From: 1-7 Kane DST 1
Producer: Cross Bar Petroleum
Date:
Time:
Sampler:
Source:

Analyzed: 11/20/95
Pressure:
Temperature:
Location: 7-30S-17W
County: Kiowa
State: Kansas
Formation: Cottonwood

	Mole %	GPM
Helium	He: 0.577	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 18.220	0.000
Carbon Dioxide	CO2: 0.098	0.000
Methane	C1: 79.219	0.000
Ethane	C2: 1.085	0.290
Propane	C3: 0.278	0.077
Iso Butane	iC4: 0.048	0.016
Normal Butane	nC4: 0.066	0.021
Iso Pentane	iC5: 0.022	0.008
Normal Pentane	nC5: 0.030	0.011
Hexanes Plus	C6+: 0.358	0.156

TOTAL: 100.001 0.578
Z Fact: 0.9984
SP.GR.: 0.6490
BTU (SAT): 838.9 @ 14.73 psia
BTU (DRY): 853.8 @ 14.73 psia
OCTANE RATING: 104.6

COMMENTS:

0.000

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Lab Number:	950648	Analyzed:	11/28/95
Sample From:	1-7 Kane DST 2	Pressure:	
Producer:	Cross Bar Petroleum	Temperature:	
Date:		Location:	7-30S-17W
Time:		County:	Kiowa
Sampler:		State:	Kansas
Source:		Formation:	Americus

	Mole %	GPM
Helium	He: 0.433	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 11.699	0.000
Carbon Dioxide	CO2: 0.103	0.000
Methane	C1: 83.720	0.000
Ethane	C2: 2.173	0.581
Propane	C3: 0.829	0.228
Iso Butane	iC4: 0.152	0.050
Normal Butane	nC4: 0.258	0.081
Iso Pentane	iC5: 0.093	0.034
Normal Pentane	nC5: 0.097	0.035
Hexanes Plus	C6+: 0.443	0.193
TOTAL:	100.000	1.203
Z Fact:	0.9981	
SP.GR.:	0.6427	
BTU (SAT):	936.0 @ 14.73 psia	
BTU (DRY):	952.6 @ 14.73 psia	
OCTANE RATING:	112.5	

COMMENTS: Sample entered under vacuum

0.129