

NATURAL GAS ANALYSIS REPORT

Sampled by:
 Trilobite Testing, Inc.
 Hays, Kansas
 Scott City, Kansas
 Phone: 800-728-5369
 Fax: 785-625-5620

Analyzed by:
 Caraway Analytical, Inc
 P. O. Box 2137
 Liberal, Kansas 67905
 Phone: 620-624-5389
 Fax: 620-626-7108

Lab Number:	20041196	Analyzed:	03/18/04
Sample From:	Gregg 1-17	Pressure:	
Producer:	Castelli Exploration	Temperature:	
Date:		Location:	17-33-16
Time:		County:	Comanche
Sampler:		State:	Kansas
Source:	4 pt	Formation:	Miss

		Mole %	GPM
Helium	He:	0.080	0.000
Hydrogen	H2:	0.008	0.000
Oxygen	O2:	0.000	0.000
Nitrogen	N2:	1.179	0.000
Carbon Dioxide	CO2:	0.115	0.000
Methane	C1:	92.542	0.000
Ethane	C2:	3.582	0.958
Propane	C3:	1.289	0.355
Iso Butane	iC4:	0.198	0.065
Normal Butane	nC4:	0.403	0.127
Iso Pentane	iC5:	0.129	0.047
Normal Pentane	nC5:	0.145	0.053
Hexanes Plus	C6+:	0.330	0.144
TOTAL:		100.000	1.749
Z Fact:		0.9977	
SP.GR.:		0.6139	
BTU (SAT):		1064.2 @ 14.73 psia	
BTU (DRY):		1083.0 @ 14.73 psia	
OCTANE RATING:		126.1	

COMMENTS:

0.000

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Lab Number:	20041197	Analyzed:	03/18/04
Sample From:	Gregg-Booth 1-8	Pressure:	
Producer:	Castelli Exploration	Temperature:	
Date:		Location:	8-33-16
Time:		County:	Comanche
Sampler:		State:	Kansas
Source:	4 pt	Formation:	Miss

		Mole %	GPM
Helium	He:	0.083	0.000
Hydrogen	H2:	0.007	0.000
Oxygen	O2:	0.000	0.000
Nitrogen	N2:	1.067	0.000
Carbon Dioxide	CO2:	0.110	0.000
Methane	C1:	92.658	0.000
Ethane	C2:	3.524	0.942
Propane	C3:	1.261	0.347
Iso Butane	iC4:	0.198	0.065
Normal Butane	nC4:	0.413	0.130
Iso Pentane	iC5:	0.140	0.051
Normal Pentane	nC5:	0.159	0.058
Hexanes Plus	C6+:	0.380	0.166

TOTAL: 100.000 1.760
 Z Fact: 0.9977
 SP.GR.: 0.6148
 BTU (SAT): 1067.5 @ 14.73 psia
 BTU (DRY): 1086.4 @ 14.73 psia
 OCTANE RATING: 126.1

COMMENTS:

0.000