

15-151-22193

8-29s-15w

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:	20030069	Analyzed:	01/07/03
Sample From:	Hanwit 1	Pressure:	
Producer:	Lotus Operating	Temperature:	
Date:		Location:	8-29-15
Time:		County:	Pratt
Sampler:		State:	Kansas
Source:	DST 2	Formation:	Lans J

	Mole %	GPM
Helium	He: 0.076	0.000
Hydrogen	H2: 0.002	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 7.090	0.000
Carbon Dioxide	CO2: 0.102	0.000
Methane	C1: 63.157	0.000
Ethane	C2: 8.019	2.145
Propane	C3: 10.099	2.783
Iso Butane	iC4: 1.853	0.606
Normal Butane	nC4: 4.502	1.419
Iso Pentane	iC5: 1.258	0.460
Normal Pentane	nC5: 1.244	0.451
Hexanes Plus	C6+: 2.598	1.133
TOTAL:	100.000	8.997
Z Fact:	0.9945	
SP.GR.:	0.9361	
BTU (SAT):	1460.2 @ 14.73 psia	
BTU (DRY):	1486.1 @ 14.73 psia	
OCTANE RATING:	108.3	

COMMENTS:

0.000

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Lab Number:	20030070	Analyzed:	01/07/03
Sample From:	Hanwit 1	Pressure:	
Producer:	Lotus Operating	Temperature:	
Date:		Location:	8-29-15
Time:		County:	Pratt
Sampler:		State:	Kansas
Source:	DST 3	Formation:	Comingle

	Mole %	GPM
Helium	He: 0.000	0.000
Hydrogen	H2: 0.000	0.000
Oxygen	O2: 20.857	0.000
Nitrogen	N2: 77.786	0.000
Carbon Dioxide	CO2: 0.164	0.000
Methane	C1: 0.024	0.000
Ethane	C2: 0.162	0.043
Propane	C3: 0.026	0.007
Iso Butane	iC4: 0.010	0.003
Normal Butane	nC4: 0.047	0.015
Iso Pentane	iC5: 0.034	0.012
Normal Pentane	nC5: 0.049	0.018
Hexanes Plus	C6+: 0.841	0.367

TOTAL: 100.000 0.466

Z Fact: 0.9995

SP.GR.: 1.0186

BTU (SAT): 51.3 @ 14.73 psia

BTU (DRY): 52.2 @ 14.73 psia

OCTANE RATING: 0.4

COMMENTS:

Oxygen 20.857