

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: 20030739	Analyzed: 02/14/03
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Sample From: Fark (L) 1-2	Pressure:	
Producer: Southwind Pet. Corp.	Temperature:	

Date: Location: 1-28-18	
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Time:	County: Kiowa	
Sampler:	State: Kansas	
Source: DST 1	Formation: Howard	

	Mole %	GPM
Helium	He: 0.581	0.000
Hydrogen	H2: 0.000	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 26.915	0.000
Carbon Dioxide	CO2: 0.285	0.000
Methane	C1: 67.386	0.000
Ethane	C2: 2.247	0.601
Propane	C3: 1.164	0.321
Iso Butane	iC4: 0.222	0.073
Normal Butane	nC4: 0.422	0.133
Iso Pentane	iC5: 0.166	0.061
Normal Pentane	nC5: 0.182	0.066
Hexanes Plus	C6+: 0.430	0.188

TOTAL: 100.000 1.442

Z Fact: 0.9983

SP.GR.: 0.7167

BTU (SAT): 795.7 @ 14.73 psia
 BTU (DRY): 809.8 @ 14.73 psia
 OCTANE RATING: 92.0

COMMENTS:

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Lab Number: 20030740

Analyzed: 02/14/03

Sample From: Fark (L) 1-2
Producer: Southwind Pet. Corp.

Pressure:
Temperature:

Date: Location: 1-28-18

Time:
Sampler:
Source: DST 2

County: Kiowa
State: Kansas
Formation: Lans A

	Mole %	GPM
Helium	He: 0.354	0.000
Hydrogen	H2: 0.006	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 12.118	0.000
Carbon Dioxide	CO2: 0.046	0.000
Methane	C1: 79.090	0.000
Ethane	C2: 3.902	1.044
Propane	C3: 2.132	0.587
Iso Butane	iC4: 0.362	0.118
Normal Butane	nC4: 0.818	0.258
Iso Pentane	iC5: 0.270	0.099
Normal Pentane	nC5: 0.315	0.114
Hexanes Plus	C6+: 0.587	0.256

TOTAL: 100.000 2.476

Z Fact: 0.9977

SP.GR.: 0.6885

BTU (SAT): 1000.5 @ 14.73 psia

BTU (DRY): 1018.2 @ 14.73 psia

OCTANE RATING: 110.5

COMMENTS:

0.000