

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:	20054554	Analyzed:	09/21/05
Sample From:	Perry 1-32	Pressure:	
Producer:	Rupe Oil Co.	Temperature:	
Date:		Location:	32-29-12
Time:		County:	Pratt
Sampler:	Davy	State:	Kansas
Source:	DST 2	Formation:	Douglas

		Mole %	GPM
Helium	He:	0.399	0.000
Hydrogen	H2:	0.010	0.000
Oxygen	O2:	0.000	0.000
Nitrogen	N2:	18.385	0.000
Carbon Dioxide	CO2:	0.031	0.000
Methane	C1:	68.628	0.000
Ethane	C2:	4.638	1.240
Propane	C3:	4.324	1.191
Iso Butane	iC4:	0.538	0.176
Normal Butane	nC4:	1.465	0.462
Iso Pentane	iC5:	0.321	0.117
Normal Pentane	nC5:	0.448	0.162
Hexanes Plus	C6+:	0.813	0.355
	TOTAL:	100.000	3.704

Z Fact:	0.9974
SP.GR.:	0.7608
BTU (SAT):	1009.0 @ 14.73 psia
BTU (DRY):	1026.8 @ 14.73 psia
OCTANE RATING:	100.7

COMMENTS: 0.000

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Lab Number:	20054464	Analyzed:	09/15/05
Sample From:	Perry 1-32	Pressure:	
Producer:	Rupe Oil Co	Temperature:	
Date:		Location:	32-29-12
Time:		County:	Pratt
Sampler:	Davy	State:	Kansas
Source:	DST 1	Formation:	Indian Cav

		Mole %	GPM
Helium	He:	0.280	0.000
Hydrogen	H2:	0.001	0.000
Oxygen	O2:	0.000	0.000
Nitrogen	N2:	8.006	0.000
Carbon Dioxide	CO2:	0.061	0.000
Methane	C1:	85.248	0.000
Ethane	C2:	3.533	0.945
Propane	C3:	1.591	0.438
Iso Butane	iC4:	0.245	0.080
Normal Butane	nC4:	0.510	0.161
Iso Pentane	iC5:	0.126	0.046
Normal Pentane	nC5:	0.148	0.054
Hexanes Plus	C6+:	0.251	0.110
	TOTAL:	100.000	1.833
	Z Fact:	0.9978	
	SP.GR.:	0.6436	
	BTU (SAT):	998.9 @ 14.73 psia	
	BTU (DRY):	1016.5 @ 14.73 psia	
	OCTANE RATING:	116.9	

COMMENTS: 0.000

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Lab Number:	20054554	Analyzed:	09/21/05
Sample From:	Perry 1-32	Pressure:	
Producer:	Rupe Oil Co	Temperature:	
Date:		Location:	32-29-12
Time:		County:	Pratt
Sampler:	Davy	State:	Kansas
Source:	DST 2	Formation:	Douglas

		Mole %	GPM
Helium	He:	0.399	0.000
Hydrogen	H2:	0.010	0.000
Oxygen	O2:	0.000	0.000
Nitrogen	N2:	18.385	0.000
Carbon Dioxide	CO2:	0.031	0.000
Methane	C1:	68.628	0.000
Ethane	C2:	4.638	1.240
Propane	C3:	4.324	1.191
Iso Butane	iC4:	0.538	0.176
Normal Butane	nC4:	1.465	0.462
Iso Pentane	iC5:	0.321	0.117
Normal Pentane	nC5:	0.448	0.162
Hexanes Plus	C6+:	0.813	0.355
	TOTAL:	100.000	3.704
	Z Fact:	0.9974	
	SP.GR.:	0.7608	
	BTU (SAT):	1009.0 @ 14.73 psia	
	BTU (DRY):	1026.8 @ 14.73 psia	
	OCTANE RATING:	100.7	

COMMENTS: 0.000