

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, Inc
 P. O. Box 2137
 Liberal, Kansas 67905
 Phone: 316-624-5389
 Fax: 316-626-7108

Lab Number:	983014	Analyzed:	08/09/98
Sample From:	Cary 36-16 DST 1	Pressure:	
Producer:	Samuel Gary Jr. & Assoc	Temperature:	
Date:		Location:	36-32-19
Time:		County:	Comanche
Sampler:		State:	Kansas
Source:		Formation:	Ft. Scott

	Mole %	GPM
Helium	He: 0.118	0.000
Hydrogen	H2: 0.007	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 2.590	0.000
Carbon Dioxide	CO2: 0.043	0.000
Methane	C1: 86.721	0.000
Ethane	C2: 4.251	1.137
Propane	C3: 3.164	0.872
Iso Butane	iC4: 0.404	0.132
Normal Butane	nC4: 1.152	0.363
Iso Pentane	iC5: 0.275	0.101
Normal Pentane	nC5: 0.343	0.124
Hexanes Plus	C6+: 0.932	0.407
TOTAL:	100.000	3.136
Z Fact:	0.9972	
SP.GR.:	0.6773	
BTU (SAT):	1139.8 @ 14.73 psia	
BTU (DRY):	1160.0 @ 14.73 psia	
OCTANE RATING:	122.2	

COMMENTS: 0.000

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, Inc
 P. O. Box 2137
 Liberal, Kansas 67905
 Phone: 316-624-5389
 Fax: 316-626-7108

Lab Number:	983015	Analyzed:	08/09/98
Sample From:	Cary 36-16 DST 2	Pressure:	
Producer:	Samuel Gary Jr. & Assoc	Temperature:	
Date:		Location:	36-32-19
Time:		County:	Comanche
Sampler:		State:	Kansas
Source:		Formation:	Top Miss

	Mole %	GPM
Helium	He: 0.109	0.000
Hydrogen	H2: 0.007	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 1.702	0.000
Carbon Dioxide	CO2: 0.197	0.000
Methane	C1: 92.670	0.000
Ethane	C2: 2.978	0.796
Propane	C3: 0.657	0.181
Iso Butane	iC4: 0.204	0.067
Normal Butane	nC4: 0.382	0.120
Iso Pentane	iC5: 0.139	0.051
Normal Pentane	nC5: 0.141	0.051
Hexanes Plus	C6+: 0.814	0.355

TOTAL: 100.000 1.622
 Z Fact: 0.9977
 SP.GR.: 0.6205
 BTU (SAT): 1063.5 @ 14.73 psia
 BTU (DRY): 1082.3 @ 14.73 psia
 OCTANE RATING: 125.0

COMMENTS: 0.000

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, Inc
 P. O. Box 2137
 Liberal, Kansas 67905
 Phone: 316-624-5389
 Fax: 316-626-7108

Lab Number:	983022	Analyzed:	08/11/98
Sample From:	Cary 36-16 DST 3	Pressure:	08/10/98
Producer:	Samuel Gary Jr. & Assoc	Temperature:	
Date:		Location:	36-32-19
Time:		County:	Comanche
Sampler:		State:	Kansas
Source:		Formation:	Viola

		Mole %	GPM
Helium	He:	0.161	0.000
Hydrogen	H2:	0.002	0.000
Oxygen	O2:	0.000	0.000
Nitrogen	N2:	4.736	0.000
Carbon Dioxide	CO2:	0.173	0.000
Methane	C1:	82.008	0.000
Ethane	C2:	6.561	1.755
Propane	C3:	2.995	0.825
Iso Butane	iC4:	0.467	0.153
Normal Butane	nC4:	1.200	0.378
Iso Pentane	iC5:	0.330	0.121
Normal Pentane	nC5:	0.456	0.165
Hexanes Plus	C6+:	0.911	0.397

TOTAL: 100.000 3.794
 Z Fact: 0.9971
 SP.GR.: 0.7013
 BTU (SAT): 1138.2 @ 14.73 psia
 BTU (DRY): 1158.3 @ 14.73 psia
 OCTANE RATING: 118.5

COMMENTS:

0.000