

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:	982848	Analyzed:	07/22/98
Sample From:	Luders B-8 DST 1	Pressure:	
Producer:	Sagebrush Petroleum, L.L.C.	Temperature:	
Date:		Location:	7-27-12
Time:		County:	Pratt
Sampler:		State:	Kansas
Source:		Formation:	Langdon

	Mole %	GPM
Helium	He: 0.517	0.000
Hydrogen	H2: 0.002	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 20.961	0.000
Carbon Dioxide	CO2: 0.354	0.000
Methane	C1: 70.440	0.000
Ethane	C2: 3.415	0.913
Propane	C3: 2.311	0.637
Iso Butane	iC4: 0.471	0.154
Normal Butane	nC4: 0.835	0.263
Iso Pentane	iC5: 0.183	0.067
Normal Pentane	nC5: 0.221	0.080
Hexanes Plus	C6+: 0.290	0.127

TOTAL: 100.000 2.241
Z Fact: 0.9980
SP.GR.: 0.7170
BTU (SAT): 891.7 @ 14.73 psia
BTU (DRY): 907.5 @ 14.73 psia
OCTANE RATING: 98.9

COMMENTS:

0.000