15-119-21246

13-33-29W

NATURAL GAS ANALYSIS REPORT
GPA 2145-09

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:	20100059	Analyzed:	01/17/10
Sample From:	Meade Lake 1-13	Pressure:	
Producer:	Obrien Energy Resources	Temperature:	
Date:		Location:	13-33-29
Time:		County:	Meade
Sampler:		State:	Kansas
Source:	DST 1	Formation:	Morrow

		Mole %	GPM
Helium	He:	0.186	0.000
Hydrogen	H2:	0.000	0.000
Oxygen	O2:	0.000	0.000
Nitrogen	N2:	8.129	0.000
Carbon Dioxide	CO2:	0.107	0.000
Methane	C1:	79.986	0.000
Ethane	C2:	5.895	2.211
Propane	C3:	3.601	1.350
Iso Butane	iC4:	0.492	0.151
Normal Butane	nC4:	0.918	0.292
Iso Pentane	iC5:	0.207	0.057
Normal Pentane	nC5:	0.217	0.060
Hexanes Plus	C6+:	0.262	0.060
	TOTAL:	100.000	4.180
	Z Fact:	0.9998	
	SP.GR.:	0.6873	
	BTU (SAT):	1081.8 @ 14.73 psia	
	BTU (DRY):	1100.9 @ 14.73 psia	
	OCTANE RATING:	115.2	

COMMENTS: 0.000