

NATURAL GAS ANALYSIS REPORT

Sampled by:
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Analyzed by:
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Lab Number: 995814	Analyzed: 11/02/99
Sample From: Johnson 1-A 4pt	Pressure:
Producer: Horseshoe Operating	Temperature:
Date: 11/01/99	Location: 12-24-41
Time:	County: Hamilton
Sampler: Lanny Saloga	State: Kansas
Source:	Formation: Winfield

	Mole %	GPM
Helium	He: 0.958	0.000
Hydrogen	H2: 0.000	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 41.187	0.000
Carbon Dioxide	CO2: 0.023	0.000
Methane	C1: 48.198	0.000
Ethane	C2: 4.108	1.099
Propane	C3: 3.198	0.881
Iso Butane	iC4: 0.417	0.136
Normal Butane	nC4: 1.070	0.337
Iso Pentane	iC5: 0.231	0.085
Normal Pentane	nC5: 0.279	0.101
Hexanes Plus	C6+: 0.331	0.144

TOTAL: 100.000 2.784
 Z Fact: 0.9983
 SP.GR.: 0.8132
 BTU (SAT): 716.0 @ 14.73 psia
 BTU (DRY): 728.7 @ 14.73 psia
 OCTANE RATING: 71.8

COMMENTS: 0.000

FieldNotes

Field Measurements

		Clock	Casing	Static1	Diff1	Meter1	Gas1
	Date	Time	Comments	Pres	Pres	Temp	Rate
	yyyy/mm/dd	hh:mm:ss		psi(g)	psi(g)	in of H2O	°F
							MMCF/D
1	1999/11/01	08:30:00	shutin	114.00	0.00	0.00	0.00
2		08:45:00		111.00	60.00	4.00	53.00
3		09:00:00	1st pt	109.00	60.00	10.00	53.00
4		09:10:00		106.00	60.00	22.00	60.00
5		09:20:00		104.50	60.00	22.00	60.00
6		09:30:00	2nd pt	104.00	60.00	22.00	60.00
7		09:40:00		101.00	60.00	39.00	61.00
8		09:50:00		99.00	60.00	39.00	61.00
9		10:00:00	3rd pt	98.00	60.00	37.00	61.00
10		10:10:00		97.00	60.00	55.00	61.00
11		10:20:00		95.00	60.00	60.00	62.00
12		10:30:00	4th pt	92.00	61.00	64.00	62.00
13	1999/11/02	12:00:00	1pt	73.50	61.00	33.00	62.00
14							

Horseshoe Operating
E/2 SW 12 24s 41w Hamilton county Kansas

Johnson 1A

Plot

