

MITCHELL ANALYTICAL LABORATORY

2638 Faudree
Odessa, Texas 79765-8538
561-5579

Gas Analysis

Company....	Guardian	Sample Press..	300.0
Producer...		Sample Temp...	0.0
Lease.....	MURCHISON OIL & GAS	Date Sampled..	11/15/2000
Station #..	CARLEBAD	Sampled by....	TOMMY FOLSOM
Cylinder #.		Field Gravity.	0.0000
Date Run...	11/15/2000	Analyzed by...	DANIEL
Lab Ref #..	00-NOV-11143	Field H2S.....	0.0000

Physical Constants per GPA 2145-93
Calculations per GPA 2172-86
@ 14.65 psia & 60.0 Deg. F.

	MOL %	GPM (Ideal)	BTU (Ideal Dry)
Nitrogen	0.271	0.030	0.0
Methane	96.996	16.353	976.5
CO2	1.069	0.179	0.0
Ethane	1.413	0.376	24.9
H2S	0.000	0.000	0.0
Propane	0.169	0.046	4.2
Iso-Butane	0.023	0.008	0.8
N-Butane	0.008	0.003	0.3
Iso-Pentane	0.000	0.000	0.0
N-Pentane	0.000	0.000	0.0
2,2-DMB	0.000	0.000	0.0
2-Me-C5	0.000	0.000	0.0
3-Me-C5	0.000	0.000	0.0
Hexanes +	0.051	0.022	2.4
TOTALS	100.000	17.016	1009.2

GROSS HEATING VALUE @ 14.65 PSIA

GASOLINE CONTENT (GPM/Real)

Dry	Wet
1011	994 BTU/Real Cu.Ft.
0.5747	0.5757 Specific Gravity (Real)
1009	992 BTU/Ideal Cu.Ft.
0.5737	0.5745 Specific Gravity (Ideal)

Ethane & Heavier	0.455
Propane & Heavier ...	0.078
Butane & Heavier	0.032
Pentane & Heavier ...	0.022

Z Factor : 0.9979

Guardian