Laboratory Services, Inc.
4016 Fiesta Drive
Hobbs, New Mexico 88240
Telephone: (505) 397-3713

ATOKA

Water Analysis

COMPANY Devon Energy

SAMPLE Outland #4
SAMPLED BY B.P.-Pro Well

DATE TAKEN 4/25/03
REMARKS

Barium as Ba	0	
Carbonate alkalinity PPM	0	
Bicarbonate alkalinity PPM	452	
pH at Lab	6.47	
Specific Gravity @ 60°F	1.05	
Magnesium as Mg	4,524	
Total Hardness as CaCO3	7,800	
Chlorides as Cl	40,948	
Sulfate as SO4	425	
Iron as Fe	139	
Potassium	32	
Hydrogen Sulfide	0	
Rw	0.17	@ 22° C
Total Dissolved Solids	50,000	
Calcium as Ca	3,276	
Nitrate	0	

Results reported as Parts per Million unless stated

Langelier Saturation Index 0.52

Analysis by: Vickie Biggs
Date: 4/25/03

Run File	C:\STAR\DATA\05_21_2002\OUTLAND 4 4.25.03-3.RUN		
Method	C:\star\method_extended_gas_scott.mth		
Operator	Vickie Biggs	**Analysis Date**	4/25/2003
Station	Outland St. Unit #4	**Company**	Devon Energy
Effective Date		**Pulled Data**	4/25/03
Received Date	4/25/03	**Composite/Spot**	Spot - Sales Line

Component	Mole %	BTU	GPM
Toluene	0.0027	0.12	0.0009
n-Octane	0.0005	0.03	0.0003
Propane	1.3397	33.79	0.3692
Totals	100.0000	1,075.99	2.1442

Relative Density from Composition	0.6110
BTUs @ 14.65 Saturated	1,060
BTUs @ 14.65 Dry	1,079
Compressibility	0.99765

REMARKS: Sampled by B.P. at Pro Well
Atoka Formation

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Component	Mole %	BTU	GPM
H2S	0.0000	0.00	0.0000
Nitrogen	1.4037	0.00	0.0000
Methane	90.5117	916.28	0.0000
CO2	0.2575	0.00	0.0000
i-Butane	0.1449	4.72	0.0474
Ethane	5.8956	104.57	1.5768
n-Butane	0.2445	7.99	0.0771
i-Pentane	0.0595	2.39	0.0218
n-Pentane	0.0437	1.76	0.0158
Cyclopentane	0.0130	0.49	0.0038
2-Methylpentane	0.0107	0.51	0.0044
3-Methylpentane	0.0084	0.40	0.0034
n-Hexane	0.0137	0.65	0.0056
Methylcyclopentane	0.0106	0.48	0.0037
Benzene	0.0093	0.35	0.0026
Cyclohexane	0.0178	0.80	0.0060
n-Heptane	0.0044	0.24	0.0020
Methylcyclohexane	0.0082	0.43	0.0033