

Patterson Drilling Company

410 N. Loraine Street — (915) 682-9401
Midland, Texas 79701

August 31, 1999

Louis Dreyfus Natural Gas Company
14000 Quail Springs Pkwy, Ste. 600
Oklahoma City, OK 73134

Re: Deviation Report
Toro 27 State #1

Gentlemen:

The following is a deviation survey on the above-referenced well located in Lea County, New Mexico.

575' - 0.25	2899' - 2.00	5255' - 0.75	9698' - 1.25	11478' - 2.75
898' - 1.00	2959' - 2.75	5509' - 0.25	10076' - 1.75	11722' - 3.25
943' - 0.75	3068' - 2.75	6009' - 0.75	10361' - 2.25	11912' - 3.75
1373' - 0.50	3304' - 2.00	6448' - 0.50	10487' - 2.50	12133' - 3.25
1688' - 0.75	3428' - 1.75	6889' - 0.50	10646' - 2.75	12262' - 3.00
1980' - 0.75	3590' - 1.75	7330' - 0.50	10803' - 2.25	12484' - 2.75
2229' - 0.75	3841' - 1.25	7803' - 0.50	10866' - 2.75	12768' - 2.50
2481' - 1.00	4285' - 1.25	8277' - 0.75	10998' - 3.25	13190' - 4.25
2735' - 1.75	4701' - 1.50	8750' - 1.00	11124' - 3.00	
2835' - 2.00	5019' - 0.75	9445' - 1.25	11311' - 2.75	

Sincerely,



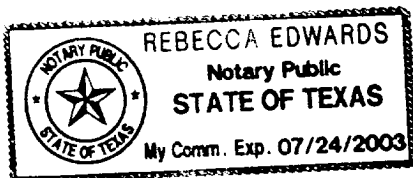
Treva Forrester

STATE OF TEXAS)
COUNTY OF MIDLAND)

The foregoing was acknowledged before me this 31st day of August, 1999 by Treva Forrester.

MY COMMISSION EXPIRES:


NOTARY PUBLIC



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OPERATIONS