

Patterson Drilling Company

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

December 14, 1999

Shackelford Oil Company
203 W. Wall
Midland, TX 79701

Re: Deviation Report
Tonto Federal #3

P-3-205-33e
330/S & 330/E
30-025-34728

Gentlemen:

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

202' - 2.25	2750' - 3.00	6284' - 1.50
500' - 2.75	2845' - 3.00	6817' - 1.50
599' - 2.25	2936' - 2.75	7286' - 1.25
850' - 0.75	3064' - 2.75	7790' - 1.25
1050' - 0.75	3190' - 2.00	7979' - 1.00
1372' - 0.75	3313' - 1.75	8450' - 1.75
1653' - 2.25	3565' - 1.75	8953' - 2.75
1747' - 2.00	4067' - 1.50	9050' - 3.50
1873' - 1.75	4445' - 0.75	9142' - 3.00
2123' - 2.00	4945' - 0.50	9340' - 2.75
2373' - 1.75	5311' - 1.25	9570' - 2.25
2625' - 2.75	5785' - 1.25	

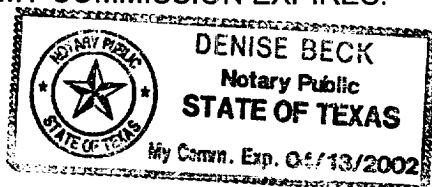
Sincerely,

Treva Forrester

STATE OF TEXAS)
)
COUNTY OF MIDLAND)

The foregoing was acknowledged before me this 17th day of January, 2001 by Treva Forrester.

MY COMMISSION EXPIRES:



NOTARY PUBLIC