



PATTERSON DRILLING COMPANY LP

A LIMITED PARTNERSHIP

410 North Loraine Street • Midland, Texas 79701
(915) 682-9401 • Fax (915) 682-1565

April 11, 2000

Shackelford Oil Company
203 W. Wall
Midland, TX 79701

Re: Deviation Report
Tonto Federal #4

*I-3-20s-33e
1650/S & 330/E
30-025-34935*

Gentlemen:

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

233' - 0.25	1590' - 4.50	2512' - 3.00	4925' - 1.75
472' - 0.25	1622' - 4.50	2605' - 3.00	5428' - 1.50
750' - 0.25	1749' - 4.50	2700' - 3.00	5901' - 1.25
1005' - 0.25	1822' - 4.25	2795' - 2.50	6185' - 1.25
1290' - 5.25	1876' - 4.00	2961' - 2.50	6690' - 1.25
1338' - 5.75	1939' - 4.00	3040' - 3.00	7199' - 0.75
1368' - 5.50	2066' - 3.50	3050' - 2.25	7703' - 0.75
1400' - 5.25	2130' - 3.50	3508' - 2.00	8238' - 1.00
1432' - 5.00	2226' - 3.75	3760' - 1.75	8710' - 2.25
1465' - 5.00	2321' - 3.50	3918' - 2.25	9028' - 1.75
1558' - 4.50	2417' - 3.25	4420' - 1.50	9501' - 2.00

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

