



KEN REYNOLDS—PRESIDENT
ARNIE NEWKIRK—VICE-PRESIDENT

DRILLING CO., INC. — OIL WELL DRILLING CONTRACTORS

P. O. Box 1498 ROSWELL, NEW MEXICO 88202-1498
505/623-5070 505/746-2719
ROSWELL, NM ARTESIA, NM

September 27, 1993

Manzano Oil Company
P.O. Box 2107
Roswell, N.M. 88202

API- 30-025-32092
66015 + 21001E Unit O

RE: Texaco Federal #4

Gentlemen:

The following is a Deviation Survey on the above referenced well located in Lea County, New Mexico.

499' - 3/4°	3385' - 2 3/4°	5290' - 1 1/4°
980' - 1/2°	3507' - 2 3/4°	5784' - 1 1/2°
1471' - 1°	3661' - 2 3/4°	5883' - 3/4°
1542' - 3/4°	3908' - 2 1/4°	6367' - 1°
1941' - 3/4°	4221' - 2°	6858' - 1°
2433' - 1°	4385' - 1 1/2°	7350' - 1°
2920' - 1°	4835' - 1 1/4°	7841' - 1°
3262' - 2 3/4°		7955' - 3/4°

Sincerely,

Gary W. Chappell
Contracts manager

STATE OF NEW MEXICO)
COUNTY OF CHAVES)

The foregoing was acknowledged before me this 27th day of September 1993
by Gary W. Chappell.

MY COMMISSION EXPIRES

October 07, 1996

NOTARY PUBLIC