



KEN REYNOLDS-PRESIDENT
GARY W. CHAPPELL-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 18, 1998

Manzano Oil Corporation
P.O. Box 2107
Roswell, NM 88202-2107

RE: Appaloosa Federal #1

Unit J 35-15-37e 1980/501980/e
30-041-20886

Gentlemen:

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

500' - 3/4°	3,146' - 1°	5,037' - 3/4°	7,566' - 1 1/4°
955' - 3/4°	3,685' - 2°	5,535' - 3/4°	7,628' - 1 1/4°
1,430' - 3/4°	3,896' - 3°	6,065' - 1/4°	8,121' - 1 1/4°
1,907' - 1°	4,083' - 2°	6,537' - 1 1/4°	8,605' - 1 1/2°
2,226' - 1/2°	4,266' - 2°	6,816' - 1°	8,902' - 1 1/2°
2,670' - 3/4°	4,545' - 1°	7,096' - 1°	9,079' - 1 1/2°

Sincerely,


Gary W. Chappell
Contracts Manager

STATE OF NEW MEXICO)
COUNTY OF CHAVES)

The foregoing was acknowledged before me this 18th day of September 1998 by Gary W. Chappell.

MY COMMISSION EXPIRES

JUNE 20, 2000



NOTARY PUBLIC