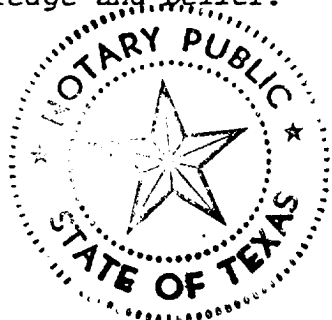


OPERATOR Manzano Oil Corporation ADDRESS P.O. Box 571, Roswell New Mexico 88202
LEASE NAME Manzano NG State #1 WELL NUMBER 6411
LOCATION 660' FSL & 1980' FEL, Section 23, T-14-S, R-34-E, Lea County, New Mexico

DEPTH	ANGLE INCLINATION - DEGREES	DISPLACEMENT	ACCUMULATIVE DISPLACEMENT
357	1/4	1.56	1.56
778	3/4	5.51	7.07
1248	3/4	6.15	13.22
1747	1	8.71	21.93
1933	3/4	2.43	24.36
2433	3/4	6.55	30.91
2904	1	8.22	39.13
3404	1	8.73	47.86
3903	3/4	6.53	54.39
4401	3/4	6.52	60.91
4450	1	.86	61.77
4919	3/4	6.14	67.91
5337	1/2	3.65	71.56
5830	1/2	4.30	75.86
6330	3/4	6.55	82.41
6830	1	8.73	91.14
7324	3/4	6.47	97.61
7823	3/4	6.53	104.14
8323	1	8.73	112.87
8801	3/4	6.26	119.13
9301	3/4	6.55	125.68
9723	3/4	5.52	131.20
10190	3/4	6.11	137.31
10520	1/2	2.88	140.19
10600	1/2	.70	140.89

I hereby certify that the above data as set forth is true and correct to the best of my knowledge and belief.



LANDIS DRILLING COMPANY

By: Gary W. Chappell
Title: Vice President - Contracts

AFFIDAVIT:

Before me, the undersigned authority, appeared Gary W. Chappell known to me to be the person whose name is subscribed hereabove, who on making deposition, under oath states that he is acting for and in behalf of the Operator of the well identified above, and that to the best of his knowledge and belief, such well was not intentionally deviated from the true vertical whatsoever.

Linne Travis
AFFIDANT'S SIGNATURE

Sworn and subscribed to in my presence on this the 21st day of March, 19 86.

LINNE TRAVIS
Notary Public in & for
The State of Texas
My Commission Expires 2-19-88

Linne Travis