

LANDIS DRILLING COMPANY
P. O. Box 3579
MIDLAND, TEXAS 79702

OPERATOR Tipperary Oil & Gas Corporation ADDRESS P. O. Box 3179, Midland, TX 79702
LEASE NAME Jons State WELL NO. 4-1
LOCATION 660'FSL & 1650'FWL, Section 4, T-17-S, R-37-E, Lea County, New Mexico

DEPTH	ANGLE- INCLINATION DEGREES	DISPLACEMENT	ACCUMULATIVE DISPLACEMENT
397	1/2	3.47	3.47
882	1/4	2.12	5.59
1352	1/2	4.10	9.69
1860	3/4	4.43	14.12
2024	1/4	.72	14.84
2516	1/2	4.30	19.14
2891	1/2	3.27	22.41
3425	3/4	6.99	29.40
3925	3/4	6.55	35.95
4202	3/4	3.63	39.58
4757	1/4	2.43	42.01
5257	1/2	4.37	46.38
5690	1/2	3.78	50.16
6250	1	9.77	59.93
6876	1	10.92	70.85
7317	3/4	5.77	76.62
7817	1	8.73	85.35
8327	1 1/4	11.13	96.48
8495	1 1/2	4.40	100.88
8686	1 1/4	4.17	105.05
8979	1 3/4	8.95	114.00
9191	2 1/2	9.25	123.25
9435	2 3/4	11.71	134.96
9621	3	9.74	144.70
9869	3 1/4	14.06	158.76
10,116	3	12.93	171.69
10,504	3 1/4	22.00	193.69
11,025	2 1/4	20.45	214.14
11,336	2 3/4	14.92	229.06

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

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 herebelow, 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.

Pamela A. Hughes
AFFIDANT'S SIGNATURE

Sworn and subscribed to in my presence on this the 1st day of November, 19 84.

Pamela A. Hughes
Pamela A. Hughes
Notary Public in and for the
County of Midland, Texas

RECEIVED

NOV 29 1984

U.S. DEPT. OF JUSTICE
FEDERAL BUREAU OF INVESTIGATION