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Depth (Feet)	Angle of Inclination (Degrees)	Displacement (feet)	Accumulative Displacement
			290.36
10,490	2	2.58	292.94
10,990	2 1/2	12.34	305.73
11,135	2 3/4	4.73	310.51
11,322	2	3.53	317.94
11,684	3	24.92	346.86
11,955	2	20.31	367.17
12,255	3 1/4	17.01	384.18
12,440	3	9.63	393.86
12,578	3	7.96	400.92
12,930	2 3/4	17.94	417.96
13,015	1 1/4	1.95	419.91
Total Displacement			<u>419.91</u>

Survey was run in Open Hole. Distance to the nearest lease line. 1520 feet.
From section 22 line

Certification of Personal Knowledge of Inclination Data:

I hereby certify that I have personal knowledge of the data and facts placed on this form, and that such information given above is true and complete.

Denton Marcum
Signature

MARCUM DRILLING COMPANY
Company

State of Texas)
)
County of Midland)

Before me, the undersigned, a Notary Public in and for said County and State, on this day personally appeared DENTON MARCUM, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purpose and consideration therein expressed and in the capacity therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS 1st DAY OF July, 1985

My Commission Expires

[Signature]
Notary Public in and for said County & State