TABULATION OF DEVIATION TESTS THELMA E. MCMANUS NO. 1 PAN AMERICAN PETROLEUM CORPORATION

DEPTH	DEVIATION
300 '	1/2°
805 '	1°
1206'	1°
1 7 05 '	1°
2186 '	1°
2688 '	3/4°
2805 '	3/4°
3245	1°
3681 '	1°
3875'	1/2°
4340'	1/2°
4840 '	1-1/4°
5220 '	1-1/4°
5663'	1-1/4°
6080'	1-1/2°
65851	2 °
7012'	1-1/2°
7411'	1-1/2°
7936 '	1-1/2°

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THIS IS TO CERTIFY that to the best of my knowledge the above tabulation details the deviation test taken on PAN AMERICAN PETROLEUM CORPORATION'S Thelma E. McManus No. 1 located 1090' FNL & 925' FWL, Section 33, T-31-N, R-5-W, Rio Arriba County, New Mexico.

Signed Area Engineer

Title Area Engineer

THE STATE OF NEW MEXICO)

COUNTY OF SAN JUAN

SS.

COUNTY OF SAN JUAN

BEFORE ME, the undersigned authority, on this day personally known to me to be Area

Engineer for Pan American Petroleum Corporation and to be the person whose name is subscribed to the above statement, who, being by me duly sworn on oath, states that he has knowledge of the facts stated herein and that said statement is true and correct.

SUBSCRIBED AND SWORN TO before me, a Notary Public in and for said County and State this 4th day of March 1970.

Vancy laine for (york)

My Commission Expires: 20 1970