. ORM 52 2-57

PAN AMERICAN PETROLEUM CORPORATION



Post Office Box 68 Hobbs, New Mexico

July 2, 1999

File: JWM-206-986.510.1

Subject: Request For Examplion To Rule 111 - Deviation Tests, -U.S.A. Malco Refineries "G" No. 5, Empire Abo Field

1959

New Mexico Oil Conservation Commission (2) Post Office Bex 671 Santa Fe, New Mexico

Attention: Mr. D. S. Nutter, Chief Engineer

Gentlemen:

This has reference to your telephone conversation with Mr. J. W. Hock of Pan American on June 9, 1959, whereby you granted tentative verbal approval excepting the subject well from a directional survey. This tentative approval was granted with the understanding that the deviation on the subject well would probably not appreciably exceed 5° below a depth of 4633 feet and thereby insure that the well would bottom up within the 40 acre tract on which it is drilled.

The Malco "G" No. 5 was completed as an Empire Abe Field development well on June 15, 1959. This well is located 1980 feet from the south and west lines of Section 10, T-18-S, R-27-E, Eddy County, New Mexico. Drilling operations on this well were completed at a total depth of 5700 feet. At a depth of 3875 feet, a TOTCO Survey indicated that the deviation was  $7^{\circ}$ . This was the first survey which indicated a deviation in excess of 5°. However, at a depth of 4865 the deviation was only 4-3/4° and remained at or below 5° until total depth was reached.

The TOECO Surveys taken on this well are furnished on the attached tabulation along with the sumulative drift which has been computed assuming the drift to be in a constant direction. Although no survey was taken at the total depth of 5700 feet, the deviation over the last 110 feet was considered the same as the preceeding 210 feet, which was  $\frac{1}{6}$ . Under these assumptions that the drift is continuous in a single direction (which is highly improbable), and that the deviation over the last 110 feet was  $\frac{4}{1/4}$ , the maximum possible horimontal displacement of the well here at total depth in relation to the surface location would be approximately 408 feet. Therefore, it is evident that the hele bettemed up well within the boundaries of the 40 acre track in which this well is located. We thereby believe that the terms of our verbal agreement have been met.



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the to thank you for your consideration in granting the tents-A for this exception, and request that formal approval be grantot this well from the directional survey requirements of Rule 111. Tours very truly,

> Original Signed by J. W. BROWN

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J. W. Brown Area Superintendent

CGI Mr. M. L. Armstrong V N.H.O.C.C. Artesia, New Mexico

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bcc: N. S. Whitmore

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DEVIATION SUMPTS

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Danth	Deviation, Decrees	Vertical Footage For Deviation	Horisontal Deviation	Total Cumulative Deviation
8201	2-3/4	8201	39.36	50 of
1280'	<b>z</b>	460*	16.05	39.36
13801	20	100.	3.49	55.42
15701	2-1/4	190*		58.90
17201	27	1501	7.47	66.37
1910'	2-1/2	1901	5.24	71.61
21301	2-3/10	2201	8.28	79.89
26701	2-3/4° 4°		10.56	90.45
29001	/] /2 <sup>0</sup>	5401	37.69	128,14
30201	1/2P	230'	18.06	146.20
33751	K0	120'	9.42	155.62
	4-1/2° 4-1/2° 5°	355'	30.96	186.58
36401	5° 4-3/4° 5° 7° 7°	235'	20.49	207.07
3703	4	30'	2.49	209.56
20761	2	631	5.49	215.05
34751	1	172'	20.97	236.02
39501	<u> </u>	751	9.14	245.16
40801	7	130*	15.85	
4410.	$T^{*}$	1381	16.82	261.01
43201	6-1/4	102'	<u>11.11</u>	277.83
44431	67	123'	12.85	288.94
44801	5-3/40	37'		301.79
46331	5-1/40	153'	3.71	305.50
48651	4-3/40	2321	14.00	319.50
51101	4-1/20	2451	19.23	338.73
51481	4-3/40	381	19.23	357.96
53801	4-3/40		3.15	361.11
55901	4-1/40	2321	19.23	380.34
5700 (T.D.)	4-1/40	2101	15.58	395.92
/		110'	8.16	404.08

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