

*Letter EFC
OC*

STANDARD OIL COMPANY OF TEXAS

Box 698
Monahans, Texas

Ref: Standard of Texas
Federal 12-5 #1
Lease #0271-A
San Juan Co.,
New Mexico

Mr. Dan Nutter
Chief Engineer
New Mexico Oil Conservation Commission
Box 871
Santa Fe, New Mexico

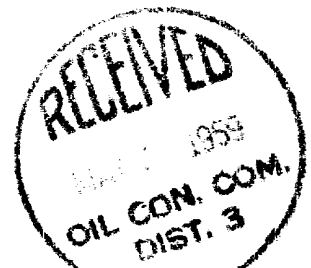
Dear Mr. Nutter:

The Standard of Texas Federal 12-5 #1 well was spudded on February 7, 1959, and completed on March 27, 1959. The well was potentialled for 245 BOPD, flowing on 20/64 choke, TP 100, CP 570, GOR 400. The producing interval is 5970 to 6025' with a well total depth of 6200' and a maximum hole deviation of 31 degrees at total depth.

This well was drilled to total depth and a series of logs were run; included in this series was a dipmeter log which is run on Wildcat Wells to determine formation dips. Usually the engineering section uses the dipmeter to determine the deviation and direction, as these two items have to be known before dips can be calculated. It is not generally known that the dipmeter is one of the best, if not the best, tool for determining hole deviation and direction because it reads a continuous deviation and direction. If it was desired to calculate the deviation in each foot of depth, it could be done. The tool is very accurate because Standard has checked its accuracy with an Eastman Survey in one well in Texas.

The attached tabulation showing hole deviation was made after completion of this well and the bottom hole location was known to be 270' north and 1049' west of the surface location, but as the well was still on Standard's lease, nothing was reported to the Commission. The fact that the bottom of the hole was quite a distance from the surface location should have been reported to the Commission.

An allowable was obtained effective April 4, 1959, and Standard has sold approximately 1200 barrels of oil from this lease.



REPORT TO THE BOARD OF DIRECTORS

1955

1. Introduction
2. Summary
3. Details
4. Conclusions
5. Recommendations

1. Introduction
2. Summary
3. Details
4. Conclusions
5. Recommendations

The following is a detailed report on the activities of the Board of Directors for the year 1955. The report covers the period from January 1st to December 31st, 1955. It is divided into five main sections: Introduction, Summary, Details, Conclusions, and Recommendations. The Introduction provides a brief overview of the year's activities. The Summary section highlights the key achievements and challenges. The Details section provides a comprehensive account of the various projects and initiatives undertaken. The Conclusions section summarizes the overall performance and identifies areas for improvement. Finally, the Recommendations section offers suggestions for future actions and strategies.



Mr. Dan Nutter
New Mexico Oil Conservation Commission
Page 2

In checking over the New Mexico Rules in regard to hole deviation it was found that Rule 111(a) states "If a hole deviates more than 5 degrees in any 500' interval then a deviation survey needs to be run and results reported to the Commission before any oil or gas is sold to determine that the bottom of the hole is on the lease where the well is drilled".

Based on the above rule the bottom hole location of the subject well is still on Standard's lease, but the surface location is in Unit "N" and the bottom hole location is in Unit "M", so it appears that the dedicated acreage should be Unit "M" rather than "N".

Rule 111 indicates that the bottom of the hole needs to be on the "lease", which is certainly correct. This office believes the intent was that the bottom of the hole has to be on the 40 acres dedicated; this being true deviation on future wells will have to be controlled.

Submitted herewith is Deviation Survey of the subject well to comply with Rule 111(a) and it is requested that the allowable granted this well for Unit N be changed to Unit M.

Standard regrets this incident and you are assured that on future wells the Deviation Survey will be filed along with the request for allowable if hole deviations are such that Rule 111(a) will apply.

Please advise if any additional information may be furnished.

Very truly yours,

C. F. Dwyer
C. F. Dwyer
District Engineer
Ward-Hobbs District



1944
[Illegible text]

[Illegible text]

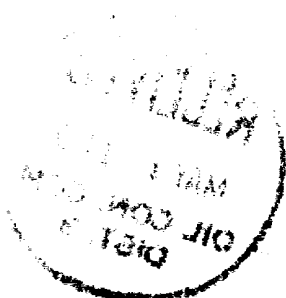
[Illegible text]

[Illegible text]

[Illegible text]

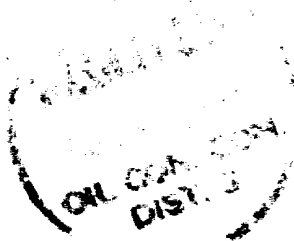
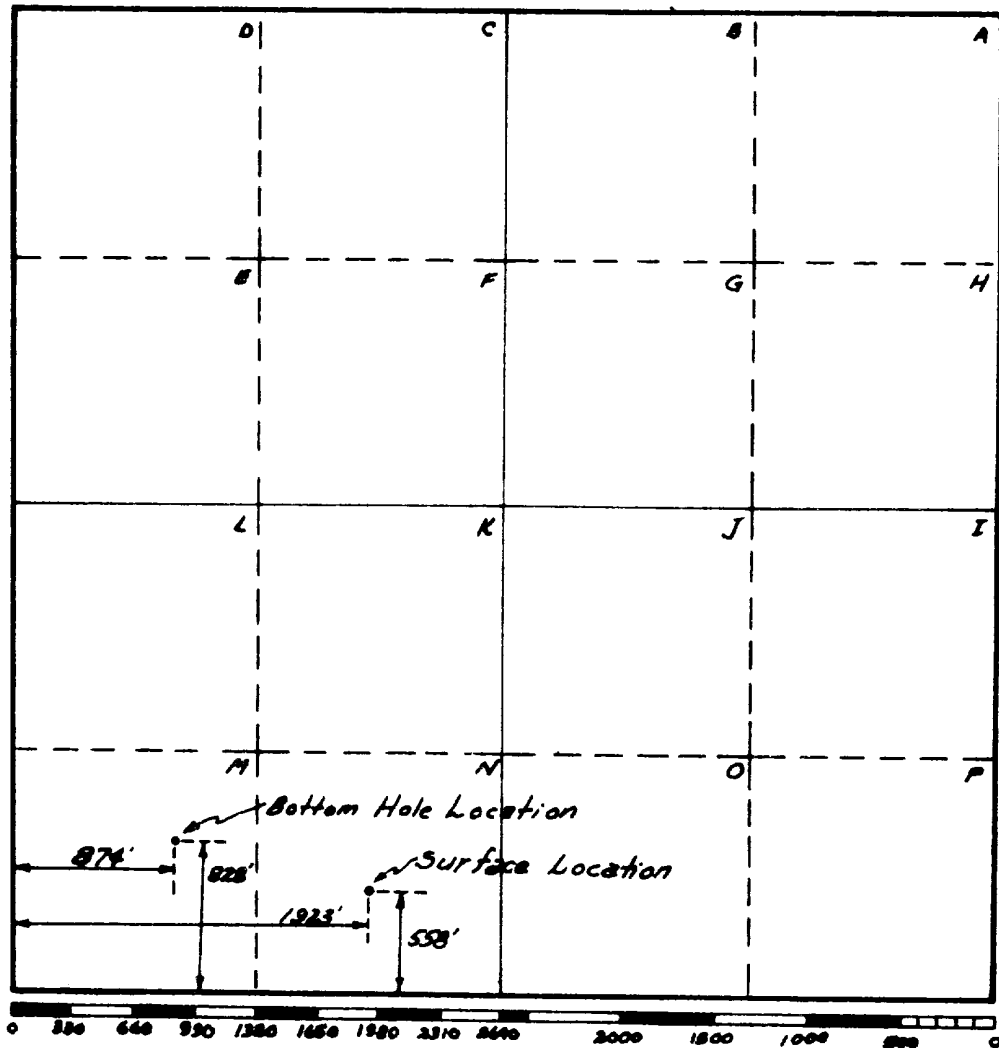
[Illegible text]

[Illegible text]



Surface & Bottom Hole Locations
of
Standard Oil Company of Texas' Federal 12-5 #1

Sec. 5, T31N, R13W
San Juan County, New Mexico



Calculation of hole deviation of the Federal 17-5-1 from dipmeter Survey.

Depth	Hole Deviation	Magnetic Azimuth	Dec-13°E		E	W	N	S
			True Azimuth	Direction Deviation				
200	0°	357°	N 5° E	N 5° E				
300	0°	24	37°	N 37° E				
400	0.9°	317	375	N 35° W	-	1.0	1.43	-
500	2.0	296	309	W 39° N	-	2.77	2.70	-
600	3.5	788	301	W 31° N	-	5.73	3.14	-
700	4.4	296	309	W 39° N	-	6.10	4.94	-
800	4.7	296	309	W 39° N	-	5.77	6.45	-
900	5.3	304	317	N 43° W	-	6.75	6.69	-
1000	5.5	788	301	W 31° N	-	7.07	6.55	-
1100	5.3	307	315	N 45° E	-	6.47	6.47	-
1200	5.81	297	305	W 35° N	-	7.13	4.99	-
1300	5.1	788	301	W 31° N	-	7.46	4.48	-
1400	5.3	296	309	W 39° N	-	7.11	5.76	-
1500	6.0	296	309	W 39° N	-	8.16	6.61	-
1600	6.7	288	301	W 31° N	-	9.43	5.67	-
1700	7.0	284	297	W 27° N		10.69	5.45	
1800	7.4	280	293	W 23° N		11.97	5.08	
1900	7.7	280	293	W 23° N		11.51	4.88	
2000	7.3	277	285	W 15° N		12.08	3.24	
2100	7.5	248	261	W 9° S		12.84		2.03
2200	7.7	277	285	W 15° N		13.04	3.63	
2300	7.5	277	285	W 15° N		12.56	3.36	
2400	8.0	264	277	W 7° N		13.90	1.71	
2500	8.5	278	391	W 21° N		13.71	5.29	
2600	8.5	277	285	W 15° N		14.0	3.81	
2700	8.4	268	281	W 11° N		14.5	2.87	
2800	7.3	266	279	W 9° N		12.35	1.95	
2900	7.7	264	277	W 7° N		12.41	1.57	
3000	8.4	267	275	W 5° N		14.69	1.29	
3100	10.0	270	283	W 13° N		16.81	3.88	
3200	9.6	276	289	W 19° N		15.58	5.36	
3300	9.4	277	290	W 20° N		15.50	5.64	
3400	9.4	278	291	W 21° N		15.39	5.91	
3500	10.6	270	283	W 13° N		17.79	4.10	
3600	11.4	280	293	W 23° N		18.41	7.81	
3700	11.0	285	295	W 25° N		17.27	8.03	
3800	9.9	270	289	W 19° N		16.96	3.89	
3900	9.5	268	281	W 11° N		16.17	3.15	
4000	9.7	277	285	W 15° N		15.45	4.14	
4100	9.7	278	291	W 21° N		15.87	6.09	
4200	9.4	268	281	W 11° N		16.21	3.15	
4300	8.8	268	281	W 11° N		14.96	2.91	
4400	9.0	276	289	W 19° N		14.68	5.05	
4500	9.4	276	289	W 19° N		15.59	5.37	

Depth	Hole Deviation	Magnetic Azimuth	True Azimuth	Direction Deviation	E	W	N	S
4600	10.0	272	285	W 15° N	16.87	16.87	4.52	
4700	10.6	272	285	W 15° N	17.64	17.64	4.72	
4800	11.3	262	275	W 15° N		19.43	1.10	
4900	12.2	268	281	W 11° N		20.36	3.26	
5000	13.6	260	273	W 3° N		20.90	3.36	
5100	15.5	260	273	W 3° N		24.26	1.33	
5200	16.9	256	269	W 4° N		27.50	1.43	
5300	16.7	260	273	W 3° N		26.99	1.52	
5330	16.9	262	275	W 5° N		13.57	1.27	

Net Deviation North = 206.87' @ 5330'
 West = 688.96

From 5330 to TD 6200 a dipmeter was not run but "TOTCO's" were taken to give deviation and the direction of the hole was assumed to be an azimuth of 280° or West 10° N, this assumption based on data from above on "Direction of Deviation" which should stay the same.

Depth	Deviation	W	N
5400	18°	21.30	3.76
5500	19 7/8°	33.77	5.86
5600	21 1/4°	35.69	6.29
5700	23°	38.43	6.78
5800	24 3/4°	41.73	7.27
5900	26 1/4°	43.56	7.68
6000	28°	46.24	8.15
6100	29 3/4°	48.87	8.62
6200	31 1/4°	51.09	9.01

} West 10° N

Net Deviation @ 6000' 257.66 North
 948.68 ~~West~~ West

@ 6200' 270.29 North
 1048.62 ~~West~~ West

Btm of Hole location is 270 North and 1049' West of the Surface location which puts btm of hole in Unit M rather than Unit N. Coordinates 878 FSL & 874 FWL, Sect 5, T-31N, R-13W.