

HOBBS OFFICE O. C. C.

MAR 3 3 36 PM '66

STATE OF TEXAS
COUNTY OF ECTOR

Before me, the undersigned authority, personally appeared J. N. Muscovalley, who declared upon oath after being duly sworn, that he executed the above instrument for the purposes and considerations therein expressed. I certify that this instrument was executed in my presence this 1st day of March A.D. 1966, and that he is personally known to me to be the identical person signing the same.

Chas. E. Crutcher
Notary Public in and for County
of Ector, Texas

My Commission Expires June 1, 1967

The above listing of deviation surveys is a true and accurate accounting of the surveys taken on this well, the Jalmat Deep Unit Number 1. The well was plugged back and whipstocked only to correct deviation problems and for mechanical problems connected with these whipstock operations.

J. N. Muscovalley
Division Contract Manager
LOFFLAND BROTHERS COMPANY

HUBBS OFFICE O. C. G.
Mar 3 3 35 PM '66

<u>DEPTH</u>	<u>DEVIATION</u>	<u>DATE</u>	<u>DRILLER</u>
Mechanical Problems - Plugged Back - Set Whipstock			
9,942	1 1/4	12-12-65	D. D. Thomas
9,970	2 1/4	12-13-65	T. Moore
9,990	1 1/2	12-14-65	D. D. Thomas
10,030	1 3/4	12-16-65	C. V. Haley
10,090	1 1/4	12-16-65	T. Moore
10,185	3/4	12-17-65	C. V. Haley
10,225	1 3/4	12-18-65	C. V. Haley
10,258	1 1/2	12-19-65	D. D. Thomas
10,280	1 1/2	12-19-65	C. V. Haley
12-327	1 1/2	12-19-65	T. Moore
10,380	2 1/2	12-20-65	T. Moore
10,418	3	12-23-65	C. V. Haley
10,428	3	12-23-65	T. Moore
10,436	3 1/2	12-24-65	D. D. Thomas
10,446	3	12-24-65	D. D. Thomas
10,458	3	12-24-65	C. V. Haley
10,465	2 1/2	12-24-65	C. V. Haley
10,476	2 1/2	12-24-65	T. Moore
10,494	2 1/2	12-25-65	D. D. Thomas
10,510	2 1/2	12-25-65	C. V. Haley
10,527	2 1/2	12-25-65	T. Moore
10,534	3 1/2	12-26-65	D. D. Thomas
10,555	3	12-26-65	C. V. Haley
10,560	2 1/2	12-26-65	T. Moore
10,574	3 1/2	12-27-65	D. D. Thomas
10,585	3	12-27-65	C. V. Haley
10,600	4	12-28-65	D. D. Thomas
10,612	3	12-28-65	C. V. Haley
10,630	3	12-28-65	T. Moore
10,638	3 1/2	12-29-65	D. D. Thomas
10,654	3 1/2	12-29-65	C. V. Haley
10,663	3 3/4	12-29-65	C. V. Haley
10,678	3 1/2	12-29-65	T. Moore
10,688	3 1/2	12-30-65	D. D. Thomas
10,702	3 1/2	12-30-65	D. D. Thomas
10,714	3 1/2	12-30-65	C. V. Haley
10,724	3 1/2	12-30-65	C. V. Haley
10,736	3 1/2	12-30-65	T. Moore
10,752	3 1/2	12-31-65	D. D. Thomas
10,780	3 1/2	12-31-65	C. V. Haley
10,790	3 1/2	12-31-65	C. V. Haley
10,795	4 1/4	12-31-65	C. V. Haley
10,855	4	1-02-66	D. D. Thomas
10,919	4	1-03-66	D. D. Thomas
10,982	4 1/4	1-03-66	T. Moore
11,046	4	1-05-66	D. D. Thomas
11,109	4 1/4	1-06-66	D. D. Thomas
11,170	3 3/4	1-07-66	D. D. Thomas
11,173	3 1/2	1-08-66	D. D. Thomas

WADSWORTH & SONS
NEW YORK

<u>DEPTH</u>	<u>DEVIATION</u>	<u>DATE</u>	<u>DRILLER</u>
Plug back Set Whipstock			
9,238	2	11-07-65	C. V. Haley
9,266	2 1/4	11-08-65	C. V. Haley
9,278	3 1/4	11-08-65	C. V. Haley
9,302	2 3/4	11-09-65	M. C. Ward
9,328	2 3/4	11-09-65	C. V. Haley
9,360	2 3/4	11-09-65	T. Moore
9,391	3	11-09-65	T. Moore
9,423	3	11-10-65	M. C. Ward
9,441	2 1/2	11-10-65	M. C. Ward
9,459	3 1/2	11-10-65	T. Moore
9,490	4 1/2	11-11-65	M. C. Ward
9,498	3 3/4	11-11-65	C. V. Haley
9,506	4	11-11-65	D. D. Thomas
9,537	4 1/2	11-11-65	C. V. Haley
9,569	4	11-11-65	T. Moore
9,600	3 3/4	11-13-65	C. V. Haley
9,631	4	11-13-65	C. V. Haley
9,662	4 1/2	11-14-65	D. D. Thomas
9,670	4 1/4	11-14-65	T. Moore
9,704	5	11-15-65	D. D. Thomas
9,715	4 3/4	11-15-65	C. V. Haley
9,740	4 1/2	11-15-65	T. Moore
9,767	3 1/2	11-16-65	C. V. Haley
9,798	3 3/4	11-16-65	C. V. Haley
9,840	4	11-16-65	T. Moore
9,862	4 1/2	11-17-65	D. D. Thomas
9,934	5 3/4	11-17-65	T. Moore
9,956	6	11-19-65	D. D. Thomas
9,986	7 1/4	11-19-65	T. Moore
10,019	7 1/2	11-20-65	D. D. Thomas
10,058	7 1/4	11-20-65	T. Moore
10,083	7 1/2	11-21-65	C. V. Haley
Plugged back - Set Whipstock			
9,883	2	11-24-65	T. Moore
9,923	3	11-25-65	C. V. Haley
9,930	3	11-26-65	C. V. Haley
9,962	3	11-27-65	D. D. Thomas
9,996	3 1/4	11-27-65	T. Moore
10,025	3 3/4	11-28-65	C. V. Haley
10,063	5 1/4	11-28-65	T. Moore
Plugged back - Set Whipstock			
9,950	3	12-02-65	D. D. Thomas
10,012	1 1/2	12-03-65	T. Moore
10,023	1 3/4	12-04-65	D. D. Thomas

HUBBS OFFICE D. C.
MAR 3 3 44 PM '44

<u>DEPTH</u>	<u>DEVIATION</u>	<u>DATE</u>	<u>DRILLER</u>
90	1/2	9-29-65	D. D. Thomas
190	1/2	9-29-65	D. D. Thomas
330	1/4	9-29-65	D. D. Thomas
580	3/4	9-30-65	T. Moore
1,030	3/4	10-01-65	D. D. Thomas
1,380	1	10-01-65	D. D. Thomas
1,633	1/2	10-01-65	C. V. Haley
1,788	3/4	10-01-65	T. Moore
2,129	1	10-02-65	D. D. Thomas
2,435	1	10-02-65	C. V. Haley
2,745	1	10-02-65	T. Moore
3,055	1	10-03-65	D. D. Thomas
3,297	1 1/2	10-03-65	C. V. Haley
3,580	2 1/2	10-04-65	D. D. Thomas
3,671	2 1/2	10-04-65	C. V. Haley
3,819	2	10-08-65	D. D. Thomas
3,879	1 3/4	10-08-65	C. V. Haley
4,016	1 1/2	10-09-65	T. Moore
4,117	1 1/4	10-10-65	C. V. Haley
4,448	2 1/4	10-12-65	C. V. Haley
4,728	1 1/4	10-13-65	T. Moore
5,008	1 1/4	10-14-65	C. V. Haley
5,401	3/4	10-15-65	T. Moore
5,521	1 1/4	10-16-65	C. V. Haley
5,905	3/4	10-20-65	D. D. Thomas
6,189	1 1/4	10-20-65	T. Moore
6,723	1 1/4	10-21-65	T. Moore
7,044	1 3/4	10-22-65	C. V. Haley
7,412	1 1/2	10-23-65	D. D. Thomas
7,480	1 1/4	10-23-65	T. Moore
7,758	2 1/2	10-24-65	T. Moore
7,885	3	10-25-65	D. D. Thomas
7,979	2 1/2	10-25-65	C. V. Haley
8,166	2 1/2	10-26-65	D. D. Thomas
8,270	3	10-26-65	C. V. Haley
8,417	2 3/4	10-27-65	D. D. Thomas
8,496	3 3/4	10-27-65	C. V. Haley
8,544	3 1/4	10-28-65	C. V. Haley
8,639	3 1/4	10-28-65	T. Moore
8,859	3 1/2	10-29-65	C. V. Haley
8,891	3 1/4	10-29-65	T. Moore
9,111	3 1/2	10-30-65	T. Moore
9,338	5	10-31-65	C. V. Haley
9,365	5	10-31-65	T. Moore
9,429	5	11-01-65	D. D. Thomas
9,492	5 1/2	11-01-65	C. V. Haley
9,523	6 1/2	11-01-65	T. Moore