

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 020181
LEASE OR PERMIT TO PROSPECT Permit
Harry G. Moberley

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company The Texas Company Address Box 983, Fort Worth, Texas
 Lessor or Tract Harry G. Moberley Field Rhodes State New Mexico
 Well No. One Sec. SE 17 T. 26S R. 37E Meridian N.M.P. County Lea
 Location 1650 ft. [N] of 3 Line and 330 ft. [E] of W Line of SE 1 Section. Elevation 2967.
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed _____ The Texas Company
Date September 21, 1929 Title Dist. Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling October 8, 1928 Finished drilling May 10, 1929

OIL OR GAS SANDS OR ZONES

No. 1, from 3101 to 3114 Very small G No. 4, from 3321 to 3322 Trace O
No. 2, from 3270 to 3274 Trace Oil No. 5, from to 3370 " O
No. 3, from 3292 to 3296 " " No. 6, from to 3410 " O

IMPORTANT WATER SANDS

No. 1, from _____ to _____

No. 2, from _____ to _____

No. 3, from _____ to _____

No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
12 1/2"	50	6	LPWeld	250'	Tex. Pat.				
8 3/4"	30	10	Smless	2880'	" "				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
12 3/4"	250'	125	Halliburton		
8 1/2"	2880'	425	"		

PLUGS AND ADAPTERS

Heaving plug—Material None 13 Length 196.1 196.1 196.1 Depth set 10 10 10
Adapters—Material None 1 Size 196.1 196.1 196.1

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
Well not shot.						

TOOLS USED

Rotary tools were used from 0 feet to 3542 feet, and from _____ feet to _____ feet.
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet.

DATES

Put to producing DRY, 19

The production for the first 24 hours was ----- barrels of fluid of which ----- % was oil; ----- % emulsion; ----- % water; and ----- % sediment. Gravity, °Bé. -----

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. -----

EMPLOYEES

G. M. Hannel, Driller
C. R. Johnson, Rotary, Driller

FORMATION RECORD

FROM-	TO-	TOTAL FEET	SAMPLE LOG	FORMATION
0	30	30	Surface	
30	50	20	Red Beds and sand	
50	140	90	Red Beds	
140	180	40	Red Rock and anhydrite	
180	200	20	Broken red rock	
200	526	326	Limy sand	
526	800	274	Red sandy shale	
800	980	180	Red Shale	
980	1010	30	White Anhydrite	
1010	1052	42	Anhydrite and red shale	
1052	1141	89	White anhydrite	
1141	1161	21	Salt and anhydrite	
1161	1205	44	Anhydrite	
1205	1260	55	Red Shale and salt	
1260	1290	30	Lime, anhydrite and salt	
1290	1585	295	Red shale, salt and anhydrite	
1585	1609	24	Anhydrite	
1609	1719	110	Anhydrite and polyhaylite	
1719	1807	88	Red shale and salt	
1807	2280	473	Pink salt, little red shale	
2280	2304	24	Red and green shale	
2304	2380	76	Anhydrite	
2380	2400	20	Red shale	
2400	2550	150	Pink Salt	
2550	2604	54	White salt	
2604	2714	110	White and gray anhydrite	

FOR THE COM. REF. OF THE COMMISSION

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
2714	2845	131	White salt
2845	2870	25	Gray anhydrite
2870	2880	10	Brown dolomite
2880	2890	10	Brown dolomite, trace anhydrite
2890	2915	25	Brown dolomite, little anhydrite
2915	2970	55	Brown gray dolomite and anhydrite
2970	3000	30	Anhydrite and brownish-gray dolomite
3000	3010	10	Fine gray sandstone, some dolomite and
3010	3050	40	Brown dolomite, fine gray sandstone and anhydrite
3050	3100	50	Gray dolomite, little anhy and sand
3100	3101	1	Very white anhydrite
3101	3114	13	Fine gray silty sandstone SMALL SHOW GAS
3114	3133	19	Gray sandstone, white dolomite, much bentonite
3133	3137	4	Hard gray dolomite
3137	3139	2	Greenish gray shaley sandstone
3139	3140	1	Hard gray dolomite
3140	3238	98	White dolomite, green shale, red shaley sand, green-gray sand.
3238	3242	4	Hard, cream dolomite
3242	3244	2	Fine red-brown sandstone
3244	3247	3	White dolomite
3247	3251	4	Red shale sand and dolomite
3251	3253	2	White dolomite
3253	3258	5	Red shale and sandstone
3258	3270	12	Dolomite
3270	3274	4	Red and greenish-gray sandstone
3274	3281	7	Secondary anhydrite, TRACED OFF OIL
3281	3283	2	Greenish-gray shaley sandstone
3283	3286	3	Chocolate red sandstone
3286	3290	4	Cream dolomite
3290	3301	11	Broken green and red shaley sandstone. 4 in. of red bentonite in the
3301	3325	24	White dolomite, slightly fractured and porous, SHOW OF OIL 3292-96 (TRACED)
3325	3330	5	Cream colored dolomite, with a few green shale breaks; slightly fractured. 1 foot porous oil from 3221-22.
3330	3336	6	Fine gray limey sand
3336	3344	8	Fine gray sand
3344	3370	26	Fine gray limey sandstone
3370	3389	19	Hard cream colored dolomite with few shale breaks, very slightly fractured and showing traces of oil
3389	3390	1	Burly lime, shale breaks
3390	3407	17	Shaley hard gray sand
3407	3410	3	Hard brown dolomite, black shale parting sand, showing little oil
3410	3442	32	Hard brown dolomite, few shale partings with anhydrite in cavities.
3442	3443	1	Hard gray sand
3443	3472	28	Hard brown dolomite with anhydrite in cavities
3472	3473	1	Hard white dolomite
3473	3474	1	Hard brown dolomite
3474	3477	3	Hard brown dolomite and green shale breaks
3477	3481	4	Hard red and gray sand
3481	3492	11	Dolomite streaked with red and gray shale
3492	3499	7	Red sand and dolomite
3499	3507	8	Hard gray dolomite
3507	3520	13	Hard white and grayish-white dolomite
3520	3530	10	Fine gray and brown dolomite sandstone
3530	3542	12	Hard gray dolomite T.D.

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

Gray-shale & lime
Total depth

3510 3520 3530 3542
Hard white and grayish-white dolomite
Fine gray and brown dolomite sandstone
Hard gray dolomite T.D.

This well was drilled using rotary method to completion depth 3542'.
The brown dolomite and white lime was found approximately 200 feet low structurally.
The core showed traces of oil and stains as follows: 3274, 3292-96, 3321-22, 3370 and 3410. A very small gas show at 3114.
The hole was bailed dry and showed no oil and just enough gas to notice it.
The hole was again filled with mud and drilling deeper was in progress when a rotary bit was hung up at 3160', this resulted in a fishing job and finally cable tools replaced the rotary, and were unsuccessful to get the bit and four joints of 4 1/2" drill pipe left in the rotary. Shoes were used to dislodge the bit, 30 qts. placed at 3120, this failed.