

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 032618
LEASE OR PERMIT TO PROSPECT PermitUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company The Texas Company Address Fort Worth, Texas
Lessor or Tract I. B. Ogg "B" Field Cooper State New Mexico
Well No. 3 Sec. 34 T. 24S R. 36E Meridian N.M.P.M. County Lea
Location 660 ft. N. of N. Line and 660 ft. E. of E. Line of Sec. 34 Elevation 3304'
(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 _____

Date June 24, 1935 Title Division Superintendent

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

Commenced drilling April 25, 1935. Finished drilling June 15, 1935.

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3479' G to 3486' G No. 4, from _____ to _____
No. 2, from 3490' to 3494' No. 5, from _____ to _____
No. 3, from 3506' to 3515' No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from 540' to 675' No. 3, from _____ to _____
No. 2, 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#	8	Lapw.	174'	Tex. Pat.				
9 5/8"	40#	8	Smless	1444'	H. O. W. CO.				
7" OD	24#	10	"	3318'	Larkin				
HISTORIA OF THE OIL FIELD									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
12 1/2"	174'	175	Halliburton		
9 5/8"	1444'	1000	"		
7" OD	3318'	175	"		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from Surface feet to 3515 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____ 19____ Put to producing completed well 6-17-35
flowed at rate of 121 bbls. per hr. PE oil per hour.
The production for the first 24 hours was _____ barrels of fluid of which _____ % was oil; 2/10 %
emulsion; _____ % water; and _____ % sediment. Gravity, °Be. 29.8
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. _____

J. G. Hammond, Inc. Ft. Worth, Tex. EMPLOYEES

CONTRACTOR _____, Driller _____, L. L. Rhodes _____, Driller
R. S. Wiggins _____, Driller _____, Isom Berry _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	35	35	Caliche.
35	540	505	Red sandy shale.
540	675	135	Gray sand & conglomerate 70%, red sandy shale 30% (Water sand 540'-675').
675	1150	475	Red sandy & limey shale.
1150	1220	70	Red & green limey shale.
1220	1255	35	Red sandy shale 50%, gray sdy sh 30%, wh gyp 20%.
1255	1270	15	Wh anhydrite 70%, red shale 30%.
1270	1295	25	Wh anhydrite 40%, red salty shale 60%.
1295	1350	55	Wh & gr anhyd 60%, Gr dolo 20%, red sh 20%.
1350	1390	40	Gr anhyd 50%, br & gr dolo 50%.
1390	1420	30	Red sh 80%, gr dolo 10%, wh anhyd 10%, tr salt.
1420	1450	30	Wh anhyd 60%, wh salt 20%, poly 10%.
1450	1650	200	Pk & wh salt 90%, poly 10%, some rd sh and anhyd.
1650	1950	300	Wh & pk salt 90%, poly 10%, tr anhyd.
1950	2370	420	Pk & wh salt 90%, poly 10%.
2370	2392	22	Pk & wh salt 90%, poly 10%, tr anhyd.
2392	2810	418	Wh salt 90%, pk poly & gr sh 10%.
2810	2850	40	Wh salt; tr poly.
2850	2900	50	Wh salt, tr br sh.

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
2900	2910	10	Wh salt 60%, gr ls & anhyd. 40%.
2920	2920	0	Wh salt 90%, poly 10%.
2960	3000	40	Wh salt 70%, anhyd 20%, poly 10%.
3000	3040	40	Wh salt.
3040	3050	10	Pk & wh salt.
3050	3070	20	Salt, tr anhyd.
3070	3080	10	Salt 90%, anhyd 10%.
3080	3090	10	Wh anhyd 90%, poly 10%, tr salt.
3090	3100	10	Wh anhyd 20%, salt 80%, tr poly.
3100	3105	5	Wh anhyd 90%, salt 10%.
3110	3125	15	Wh anhyd.
3125	3130	5	Br xln dolo 70%, wh anhyd 30%, salt 30%.
3130	3140	10	Br xln dolo 35%, gr xln dolo 55%, wh anhyd 10%.
3140	3160	20	Br xln dolo 10%, gr xln dolo 80%, wh anhyd 10%.
3160	3170	10	Br & gr xln dolo 20%, wh anhyd 10%, br fine grined sd 70%.
3170	3190	20	Gr xln dolo 65%, wh anhyd 25%, br fine sd 10%.
3190	3200	10	Gr xln dolo 50%, br xln dolo 25%, wh anhyd 25%.
3200	3220	20	Gr xln dolo, tr anhyd & sd.
3220	3230	10	Gr xln dolo, tr anhyd & sd.
3230	3240	10	Gr xln dolo 70%, fine sd 10%, wh anhyd 10%.
3240	3270	30	Gr xln dolo 60%, br xln dolo 20%, anhyd 20%.
3270	3280	10	Gr xln dolo, tr anhyd.
3280	3290	10	Gr xln dolo 50%, br xln dolo 50%.
3290	3300	10	Gr xln dolo, tr wh dolo & anhyd.
3300	3310	10	Gr xln dolo 90%, fine sd 10%, tr wh dolo & anhyd.
3310	3318	8	No samples.
3318	3333	15	Fine sd 90%, gr dolo 10%, (F.O.GS).
3333	3338	5	Fine sd 70%, gr dolo 30%.
3338	3348	10	Very fine sd & silt.
3348	3358	10	Very fine sd & silt.
3358	3363	5	Very fine sd & silt 80%, gr xln dolo 20%.
3363	3368	5	Fine sd & silt 20%, gr xln dolo 80%.
3368	3373	5	Gr & wh xln dolo 90%, fine sd 10%.
3373	3378	5	Gr & wh xln dolo 70%, fine sd 30%.
3378	3383	5	Gr & wh xln dolo 70%, fine sd 10%, gr bent 20%.
3383	3388	5	Gr & wh xln dolo 90%, gr bent 10%.
3388	3393	5	Wh xln dolo.
3393	3398	5	No samples.
3398	3403	5	Wh & gr xln dolo 70%, gr bent 20%.
3403	3413	10	Fine sd 10%.
3413	3418	5	Wh & gr xln dolo, tr bent.
3418	3453	35	No samples.
3453	3478	25	Wh & gr xln dolo.
3478	3483	5	No samples/
3483	3493	10	Wh xln dolo.
3493	3498	5	Wh & gr xln dolo, tr sd.
3498	3503	5	Wh xln dolo.
3503	3508	5	Wh xln dolo.
3508	3515	7	Wh xln dolo.

HISTORY OF OIL OR GAS WELL

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.

The top of the main salt was encountered at 1420', the base of which was 3070'. The top of the brown dolomite was encountered at 3110', or plus 194', fore set 15' down in the white line section and the well completed by drilling the remaining section by pressure control method, using oil as circulating fluid. A question has been advanced among the engineers as to the probability of zones of porous low pressures in the upper white line section above the pay; therefore it was decided to close the valve on the flow line and build up 1000# pump pressure against the formation to test this possibility. Five of these tests were made at ten foot intervals from 3434' to 3474', and there were positively no indications of formation taking fluid. The first gas of any consequence was encountered at 3479'; drilling was stopped and a one hour and half test was made. The gas gauged 1,600,000 cubic feet which at the end of the test was flowing dry. Drilling was continued to 3482', and another 45 minute test was made, showing only the same amount of dry gas. Drilling was again continued to 3492', and a two hour test was made, which showed production of 13 barrels oil per hour and 1,600,000 gas with gas oil ratio of 5.113 cubic feet. Drilling was continued to 3498', and allowed to flow all night and continued to gauge 13 barrels per hour of production. From drilling time and close check on tank, gauge showed top of pay was at 3485', to 3486'. Drilling was continued and porous time was encountered from 3506' to 3514', and well completed at 3515'. The well tested 121 barrels per hour with gas oil ratio of 1,047, cubic feet per barrel and 3,040,000 cubic feet per 24 hours. Pumping was set four feet off bottom and well flowed through a 13/64" at rate of 9.3 barrels oil per hour with 166,887 cubic feet per day or gas oil ratio of 748 cubic feet per barrel.