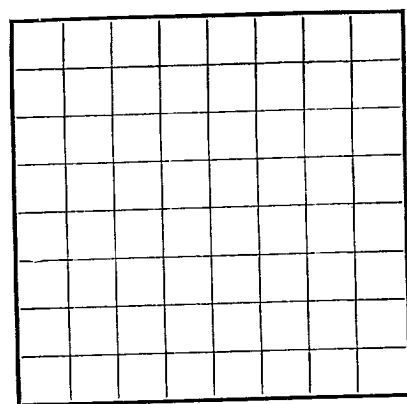


U. S. LAND OFFICE New Mexico
SERIAL NUMBER 0610
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Leonard Oil Company Address Box 708 - Roswell, New Mexico
Lessor or Tract Federal Hagerty Field W. Henshaw State New Mexico
Well No. 7 Sec. 7 T. 16S R. 30E Meridian N.M.P.M. County Eddy
Location 1650 ft. N. of S. Line and 1650 ft. W. of E. Line of Section Elevation 3557
(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 Frederick J. Hix

Date May 4, 1959 Title General Manager

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

Commenced drilling 3-25, 1959 Finished drilling 4-20, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2669 to 2680 No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from 1920 to 1950 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—	
10-3/4	32.00	8	Republic	446	Tex. Pattern				Surface
8-5/8	24.75	8	Republic	1979					Intermediate
5-1/2	15.80	8	Republic	2659					Production
HISTORY OF OIL OR GAS WELL									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	446	0			Set
8-5/8	1979	0			Set & Pulled
5-1/2	2659	200	Plug		

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
Treated w/ 32,046 gals oil & 77,000 # sand						

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from 0 feet to 2701 feet, and from _____ feet to _____ feet

DATES

Put to producing May 1, 1959

The production for the first 24 hours was 30 barrels of fluid of which 100% was oil; 0%
emulsion; 0% water; and 0% 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

Chapman, Driller C.F. Brockover, Driller
C. Jordan, Driller K.R. Swenberg, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	30	30	Caliche
30	40	10	Red Bed
40	105	65	Red Sand
105	165	60	Sandy
165	250	85	Red Shale & Sand
250	360	110	Red Shale
360	370	10	Sand
370	390	20	Gyp & sand
390	403	13	Anky
403	410	7	Sand
410	412	2	Red Bed
412	420	8	Sand
420	430	10	Gyp
430	440	10	Anky
440	446	6	Red Bed
446	450	4	Anky
450	460	10	Red Bed
460	485	25	Sand & sand
485	540	55	Red bed
540	819	279	Salt
819	836	17	Polymillite
836	990	154	Salt
990	995	5	Anky
995	1045	50	Anky & Shale breaks
1045	1105	60	Anky
1105	1110	5	Salt

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
UNITED STATES

Location of well, including township, range, section, and corner of section, and all work done thereon. The information given herein is a complete and correct record of the well and all work done thereon. 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.

Comments on the progress for the condition of the well at above date.

OIL OR GAS SANDS OR ZONES

Zone 1 from _____ to _____
Zone 2 from _____ to _____
Zone 3 from _____ to _____

IMPORTANT WATER SANDS

Zone 1 from _____ to _____
Zone 2 from _____ to _____

CASING RECORD

Size	Weight per foot	Length	Remarks	Kind of shoe	Cut and balled from	Portion of casing

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.

PLUGGING AND CEMENTING RECORD

Size	Weight per foot	Length	Remarks	Kind of shoe	Cut and balled from	Portion of casing

PLUGS AND ADAPTERS

Size	Weight per foot	Length	Remarks	Kind of shoe	Cut and balled from	Portion of casing

SHOOTING RECORD

Size	Weight per foot	Length	Remarks	Kind of shoe	Cut and balled from	Portion of casing

TOOLS USED

Size	Weight per foot	Length	Remarks	Kind of shoe	Cut and balled from	Portion of casing

DATES

Size	Weight per foot	Length	Remarks	Kind of shoe	Cut and balled from	Portion of casing

EMPLOYEES

Size	Weight per foot	Length	Remarks	Kind of shoe	Cut and balled from	Portion of casing

FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION
1160	1166	6	Any Red Bed
1166	1175	9	Any Red Bed
1175	1205	30	Any Red Bed
1205	1230	25	Any Red Bed
1230	1250	20	Any Red Bed
1250	1260	10	Any Red Bed
1260	1275	15	Any Red Bed
1275	1305	30	Any Red Bed
1305	1335	30	Any Red Bed
1335	1365	30	Any Red Bed
1365	1395	30	Any Red Bed
1395	1425	30	Any Red Bed
1425	1455	30	Any Red Bed
1455	1485	30	Any Red Bed
1485	1515	30	Any Red Bed
1515	1545	30	Any Red Bed
1545	1575	30	Any Red Bed
1575	1605	30	Any Red Bed
1605	1635	30	Any Red Bed
1635	1665	30	Any Red Bed
1665	1695	30	Any Red Bed
1695	1725	30	Any Red Bed
1725	1755	30	Any Red Bed
1755	1785	30	Any Red Bed
1785	1815	30	Any Red Bed
1815	1845	30	Any Red Bed
1845	1875	30	Any Red Bed
1875	1905	30	Any Red Bed
1905	1935	30	Any Red Bed
1935	1965	30	Any Red Bed
1965	1995	30	Any Red Bed
1995	2025	30	Any Red Bed
2025	2055	30	Any Red Bed
2055	2085	30	Any Red Bed
2085	2115	30	Any Red Bed
2115	2145	30	Any Red Bed
2145	2175	30	Any Red Bed
2175	2205	30	Any Red Bed
2205	2235	30	Any Red Bed
2235	2265	30	Any Red Bed
2265	2295	30	Any Red Bed
2295	2325	30	Any Red Bed
2325	2355	30	Any Red Bed
2355	2385	30	Any Red Bed
2385	2415	30	Any Red Bed
2415	2445	30	Any Red Bed
2445	2475	30	Any Red Bed
2475	2505	30	Any Red Bed
2505	2535	30	Any Red Bed
2535	2565	30	Any Red Bed
2565	2595	30	Any Red Bed
2595	2625	30	Any Red Bed
2625	2655	30	Any Red Bed
2655	2685	30	Any Red Bed
2685	2715	30	Any Red Bed
2715	2745	30	Any Red Bed
2745	2775	30	Any Red Bed
2775	2805	30	Any Red Bed
2805	2835	30	Any Red Bed
2835	2865	30	Any Red Bed
2865	2895	30	Any Red Bed
2895	2925	30	Any Red Bed
2925	2955	30	Any Red Bed
2955	2985	30	Any Red Bed
2985	3015	30	Any Red Bed
3015	3045	30	Any Red Bed
3045	3075	30	Any Red Bed
3075	3105	30	Any Red Bed
3105	3135	30	Any Red Bed
3135	3165	30	Any Red Bed
3165	3195	30	Any Red Bed
3195	3225	30	Any Red Bed
3225	3255	30	Any Red Bed
3255	3285	30	Any Red Bed
3285	3315	30	Any Red Bed
3315	3345	30	Any Red Bed
3345	3375	30	Any Red Bed
3375	3405	30	Any Red Bed
3405	3435	30	Any Red Bed
3435	3465	30	Any Red Bed
3465	3495	30	Any Red Bed
3495	3525	30	Any Red Bed
3525	3555	30	Any Red Bed
3555	3585	30	Any Red Bed
3585	3615	30	Any Red Bed
3615	3645	30	Any Red Bed
3645	3675	30	Any Red Bed
3675	3705	30	Any Red Bed
3705	3735	30	Any Red Bed
3735	3765	30	Any Red Bed
3765	3795	30	Any Red Bed
3795	3825	30	Any Red Bed
3825	3855	30	Any Red Bed
3855	3885	30	Any Red Bed
3885	3915	30	Any Red Bed
3915	3945	30	Any Red Bed
3945	3975	30	Any Red Bed
3975	4005	30	Any Red Bed
4005	4035	30	Any Red Bed
4035	4065	30	Any Red Bed
4065	4095	30	Any Red Bed
4095	4125	30	Any Red Bed
4125	4155	30	Any Red Bed
4155	4185	30	Any Red Bed
4185	4215	30	Any Red Bed
4215	4245	30	Any Red Bed
4245	4275	30	Any Red Bed
4275	4305	30	Any Red Bed
4305	4335	30	Any Red Bed
4335	4365	30	Any Red Bed
4365	4395	30	Any Red Bed
4395	4425	30	Any Red Bed
4425	4455	30	Any Red Bed
4455	4485	30	Any Red Bed
4485	4515	30	Any Red Bed
4515	4545	30	Any Red Bed
4545	4575	30	Any Red Bed
4575	4605	30	Any Red Bed
4605	4635	30	Any Red Bed
4635	4665	30	Any Red Bed
4665	4695	30	Any Red Bed
4695	4725	30	Any Red Bed
4725	4755	30	Any Red Bed
4755	4785	30	Any Red Bed
4785	4815	30	Any Red Bed
4815	4845	30	Any Red Bed
4845	4875	30	Any Red Bed
4875	4905	30	Any Red Bed
4905	4935	30	Any Red Bed
4935	4965	30	Any Red Bed
4965	4995	30	Any Red Bed
4995	5025	30	Any Red Bed
5025	5055	30	Any Red Bed
5055	5085	30	Any Red Bed
5085	5115	30	Any Red Bed
5115	5145	30	Any Red Bed
5145	5175	30	Any Red Bed
5175	5205	30	Any Red Bed
5205	5235	30	Any Red Bed
5235	5265	30	Any Red Bed
5265	5295	30	Any Red Bed
5295	5325	30	Any Red Bed
5325	5355	30	Any Red Bed
5355	5385	30	Any Red Bed
5385	5415	30	Any Red Bed
5415	5445	30	Any Red Bed
5445	5475	30	Any Red Bed
5475	5505	30	Any Red Bed
5505	5535	30	Any Red Bed
5535	5565	30	Any Red Bed
5565	5595	30	Any Red Bed
5595	5625	30	Any Red Bed
5625	5655	30	Any Red Bed
5655	5685	30	Any Red Bed
5685	5715	30	Any Red Bed
5715	5745	30	Any Red Bed
5745	5775	30	Any Red Bed
5775	5805	30	Any Red Bed
5805	5835	30	Any Red Bed
5835	5865	30	Any Red Bed
5865	5895	30	Any Red Bed
5895	5925	30	Any Red Bed
5925	5955	30	Any Red Bed
5955	5985	30	Any Red Bed
5985	6015	30	Any Red Bed
6015	6045	30	Any Red Bed
6045	6075	30	Any Red Bed
6075	6105	30	Any Red Bed
6105	6135	30	Any Red Bed
6135	6165	30	Any Red Bed
6165	6195	30	Any Red Bed
6195	6225	30	Any Red Bed
6225	6255	30	Any Red Bed
6255	6285	30	Any Red Bed
6285	6315	30	Any Red Bed
6315	6345	30	Any Red Bed
6345	6375	30	Any Red Bed
6375	6405	30	Any Red Bed
6405	6435	30	Any Red Bed
6435	6465	30	Any Red Bed
6465	6495	30	Any Red Bed
6495	6525	30	Any Red Bed
6525	6555	30	Any Red Bed
6555	6585	30	Any Red Bed
6585	6615	30	Any Red Bed
6615	6645	30	Any Red Bed
6645	6675	30	Any Red Bed
6675	6705	30	Any Red Bed
6705	6735	30	Any Red Bed
6735	6765	30	Any Red Bed
6765	6795	30	Any Red Bed
6795	6825	30	Any Red Bed
6825	6855	30	Any Red Bed
6855	6885	30	Any Red Bed
6885	6915	30	Any Red Bed
6915	6945	30	Any Red Bed
6945	6975	30	Any Red Bed
6975	7005	30	Any Red Bed
7005	7035	30	Any Red Bed
7035	7065	30	Any Red Bed
7065	7095	30	Any Red Bed
7095	7125	30	Any Red Bed
7125	7155	30	Any Red Bed
7155	7185	30	Any Red Bed
7185	7215	30	Any Red Bed
7215	7245	30	Any Red Bed
7245	7275	30	Any Red Bed
7275	7305	30	Any Red Bed
7305	7335	30	Any Red Bed
7335	7365	30	Any Red Bed
7365	7395	30	Any Red Bed
7395	7425	30	Any Red Bed
7425	7455	30	Any Red Bed
7455	7485	30	Any Red Bed
7485	7515	30	Any Red Bed
7515	7545	30	Any Red Bed
7545	7575	30	Any Red Bed
7575	7605	30	Any Red Bed
7605	7635	30	Any Red Bed
7635	7665	30	Any Red Bed
7665	7695	30	Any Red Bed
7695	7725	30	Any Red Bed
7725	7755	30	Any Red Bed
7755	7785	30	Any Red Bed
7785	7815	30	Any Red Bed
7815	7845	30	Any Red Bed
7845	7875	30	Any Red Bed
7875	7905	30	Any Red Bed
7905	7935	30	Any Red Bed
7935	7965	30	Any Red Bed
7965	7995	30	Any Red Bed
7995	8025	30	Any Red Bed
8025	8055	30	Any Red Bed
8055	8085	30	Any Red Bed
8085	8115	30	Any Red Bed
8115	8145	30	Any Red Bed
8145	8175	30	Any Red Bed
8175	8205	30	Any Red Bed
8205	8235	30	Any Red Bed
8235	8265	30	Any Red Bed
8265	8295	30	Any Red Bed
8295	8325	30	Any Red Bed
8325	8355	30	Any Red Bed
8355	8385	30	Any Red Bed
8385	8415	30	Any Red Bed
8415	8445	30	Any Red Bed
8445	8475	30	Any Red Bed
8475	8505	30	Any Red Bed
8505	8535	30	Any Red Bed
8535	8565	30	Any Red Bed
8565	8595	30	Any Red Bed
8595	8625	30	Any Red