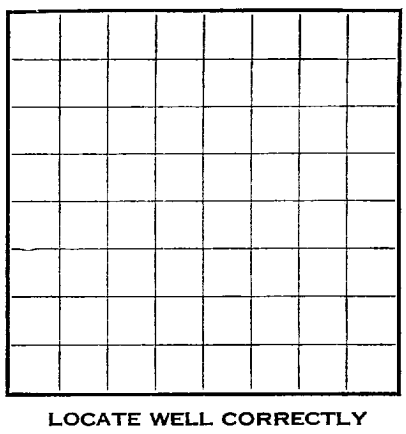
Form 9-330

N. M. O. C. C. COPY

Budget Bureau No. 42-R-355.3.
Approval expires 12-31-55.

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 P.O. BOX 708 - ROSWELL, NEW MEX.

Lessor or Tract Federal-Hagerty Field W. Henshaw-Grayburg State New Mexico

Well No. 12 Sec. 18 T 16-S R 30-E Meridian N.M.P.M. County Eddy

Location 660 ft. {N.} of N Line and 1980 ft. {W.} of E Line of Sec. 18 Elevation 3765
(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 Fowler Hagerty

Date May 2, 1960 Title General Manager

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

Commenced drilling 3-12-60, 19 Finished drilling 4-14, 19 60

OIL OR GAS SANDS OR ZONES

(*Denote gas by G*)

No. 1, from 2670 to 2684 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 387 to 402 No. 3, from 2170 to 2225

No. 2, from 1940 to 1964 No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4	32.75	8	Republic	480	Tex.Pattern	480			Surface
8 5/8	24.00	8	CF&I	1992		1992			Water
7"	20.00	8	CF&I	2254		2254			Salem
5½	15.50	8	CF&I	2705	Guide		2674	2680	Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4	480				
8 5/8	1992		Plug		20 sx
7	2254		Plug		15 sx
5 ½	2705	150 sx	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

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet

Cable tools were used from 0 feet to 2705 feet, and from feet to feet

DATES

, 19 Put to producing May 1, 19 60

The production for the first 24 hours was 60 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

Wright, Driller Jacobs, Driller

Grissom, Driller McGrew, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	20	20	Caleche
20	90	70	Red mud
90	185	95	Red shale
185	285	100	Red bed
285	310	25	Shale
310	350	40	Sand
350	387	37	Sand shale
387	405	18	Sand
405	420	15	Sand
420	445	25	Anhy & shale
445	475	30	Shale
475	480	5	Red bed
480	500	20	Anhy
500	520	20	Red rock
520	548	28	Anhy
548	990	442	Salt
990	1675	685	Anhy
1675	1740	65	Anhy-shale
1740	1810	70	Shale-anhy
1810	2170	360	Anhy
2170	2225	55	Sand
2225	2240	15	Anhy
2240	2246	6	Lime
2246	2425	179	Anhy
2425	2440	15	Lime
2440	2490	50	Broken lime

[OVER]

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
2490	2510	20	Lime
2510	2530	20	Brown Lime
2530	2620	90	Anhy
2620	2650	30	Lime
2650	2667	17	Anhy & sand
2667	2687	20	Lime
2687	2699	12	Sand
2699	2705	6	Lime
2705	TD		

TOPS:

T/Salt 548
B/Salt 990
T/Queen 1921
T/Premier 2668
T/SanAndres 2699

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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.