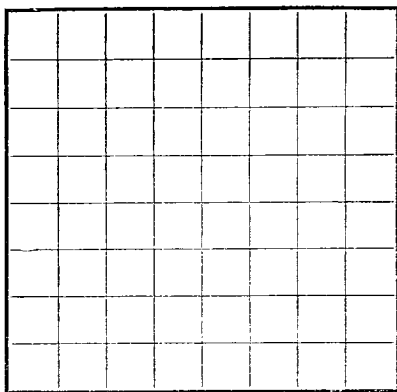


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Bureau No. 42-R-355.3.
App. expires 12-31-55.U. S. LAND OFFICE **New Mexico**
0610

SERIAL NUMBER

LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

ON CORRELATION

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

RECEIVED
SEP 30 1957

LOG OF OIL OR GAS WELL

Company **LEONARD OIL COMPANY** Address **Box 708, Roswell, New Mexico**
Lessor or Tract **Federal-Hagerty** Field **Undesignated** State **New Mexico**
Well No. **3** Sec. **19** T. **16S** R. **30E** Meridian **N.M.P.M.** County **Eddy**
Location **660** ft. ~~XXXX~~ of **N** Line and **1980** ft. ~~XXXX~~ of **E** Line of **19** Elevation **3748'**
(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 *Richard J. Spenser*
Date **9-27-57** Title **President**

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

Commenced drilling **August 16,** 19 **57** Finished drilling **September 17**, 19 **57**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **2735** to **2746** 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 **440** to **455** No. 3, from _____ to _____
No. 2, from **1955** to **1965** 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#			565'					Surface String
8-5/8"	24#			2025'		Pulled 1959'			
7"	20#			2724'					Prod. String
2-3/8"	(Tubing)			2724'					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4"	565'	50 sz (neat)	(Denton)		
7"	2724'	100 sz (pot-mix)	(Denton)		

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 with 20,000 gal's oil & 30,000# sand (open hole) from 2724-59;						
RESULT: Increased production from 6 BOPD to 120 BOPD						

TOOLS USED

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

DATES

August **17**, 19 **57** Put to producing **September 26**, 19 **27**

The production for the first 24 hours was **120** barrels of fluid of which **100**% 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

Greene, Driller **Spenser**, Driller
Walker, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	20	20	Caliche
20	30	10	Red Beds
30	130	100	Sand
130	220	90	Red Beds
220	225	5	Line
225	240	15	Red Beds
240	315	75	Sandy Shale
315	350	35	Red Rock
350	455	105	Anhydrite
455	470	15	Red Shale
470	480	10	Red Beds
480	500	20	Anhydrite
500	534	34	Red Beds
534	542	8	Anhydrite
542	546	4	Red Beds
546	995	449	Salt
995	1055	60	Anhydrite
1055	1060	5	Red Beds & Salt
1060	1210	150	Anhydrite
1210	1250	40	Anhydrite, Red Rock
1250	1640	390	Anhydrite
1640	1655	15	Line
1655	1898	243	Anhydrite
1898	1908	10	Red Sand
1908	1956	48	Anhydrite

HISTORY OF OIL OR GAS WELL

Station	T/S	T/Y	T/Q	T/PremierPay	T/SA
374.8					
54.0					
114.8					
195.5					
273.5					
274.9					

1956	1960	1969	2191	2205	2391	2410	2453	2673	2696	2736	2745	2759	17	White Idms
1960	1969	2191	2205	2391	2410	2453	2673	2696	2736	2745	2759	19	Old Idms	
1980	1989	2191	2205	2391	2410	2453	2673	2696	2736	2745	2759	40	Amphrite, sandy	
1989	1991	2191	2205	2391	2410	2453	2673	2696	2736	2745	2759	23	Sandy Idms	
1989	1991	2191	2205	2391	2410	2453	2673	2696	2736	2745	2759	220	Idms	
1989	1991	2191	2205	2391	2410	2453	2673	2696	2736	2745	2759	43	Amphrite, sandy	
1989	1991	2191	2205	2391	2410	2453	2673	2696	2736	2745	2759	19	Grey Idms	
1989	1991	2191	2205	2391	2410	2453	2673	2696	2736	2745	2759	186	Amphrite	
1989	1991	2191	2205	2391	2410	2453	2673	2696	2736	2745	2759	14	Grey Sand	
1989	1991	2191	2205	2391	2410	2453	2673	2696	2736	2745	2759	202	Amphrite	
1989	1991	2191	2205	2391	2410	2453	2673	2696	2736	2745	2759	9	Sand	
1989	1991	2191	2205	2391	2410	2453	2673	2696	2736	2745	2759	24	Red Sand	