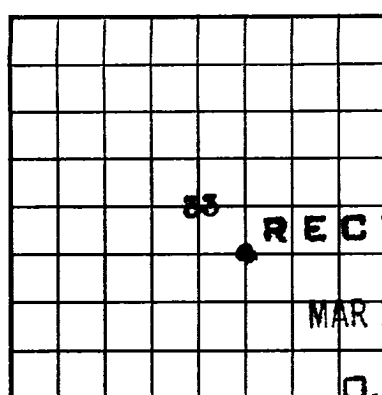


U. S. LAND OFFICE **L. C.**
SERIAL NUMBER **058180**
LEASE OR PERMIT TO PROSPECT
LeonardUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED

MAR 10 1977

L. C. LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY VIA OFFICE

Company **Sanders Brothers** Address **Box 746, Artesia, New Mexico**
Lessor or Tract **Leonard** Field **High Lonesome** State **New Mexico**
Well No. **E-3** Sec. **33** T. **16S** R. **30E** Meridian **N.M.P.M.** County **Eddy**
Location **1980 ft. (N.)** of **S** Line and **1980 ft. (E.)** of **E** Line of **Sec. 33** Elevation **3724**
(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 **James W. Warden**Date **April 22, 1942**Title **Bookkeeper**

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

Commenced drilling **February 22,** 19 **42** Finished drilling **April 14,** 19 **42**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **2858** to **2939** 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 **405** to _____ No. 3, from _____ to _____No. 2, from **2180** 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—	
8 1/2"				574'					
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
8 1/2"	574'	50 Sacks			
7"	2210'				100 Sacks
5 1/2"	2771'	100 Sacks			

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
			30 Qts. 4/11/42		2858 to 2873	
			100 Qts.		2873 to 2911	
			40 Qts.		2911 to 2931	
			20 Qts.		2931 to 2939	

TOOLS USED

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

Cable tools were used from **Cable Tools** to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing _____, 19____

The production for the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ % was water, and _____ % sediment. This well would flow by Heads. Estimated production on 12 hour test was **2 1/2** barrels per hour before shooting. After shooting on 22 hour test it made **297** barrels through open

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

Rock pressure, lbs. per sq. in. _____

ON tubing set at **2850**.

EMPLOYEES

_____, Driller _____, Driller

_____, Driller _____, Driller

_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	80	80	Red Sand and Shale
80	315	235	Red Sandy Shale
315	350	35	Anhydrite
350	400	50	" and Red Shale
400	405	05	Water Sand and Gravel
405	440	35	Anhydrite
440	574	134	" - Sand and Red Rock
574	585	11	" , Salt and Shale
585	635	50	" , Salt and Red Shale
635	695	60	" and Salt
695	875	180	Salt
875	925	50	Salt and Potash
925	950	25	Salt
950	975	25	Anhydrite and Potash
975	1040	65	Anhydrite and Salt
1040	1090	50	Salt and Potash
1090	1115	25	Salt
1115	1140	25	Anhydrite
1140	1215	75	" and Shale
1215	1310	95	" and Red Rock Breaks
1310	1345	35	" and Red Rock
1345	1445	100	" and Red Rock
1445	1645	200	"
1645	1650	05	Sand & Water
1650	1880	230	Anhydrite

(OVER)

6-6745

FORMATION RECORD—CONTINUED

U. S. LAND OFFICE
BUREAU OF REVENUE
Images on Permit to Prospect
PROSPECTING

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
MAR 10 1917

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY, OFFICE

Company _____
Lessor or Trust _____
Well No. _____ Sec. _____ T. _____ R. _____
Location _____ of _____ Line and _____
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.

Date _____
The summary on this page is for the condition of the well at above date.
Commenced drilling _____ 10:45 Finished drilling _____ 10:45

OIL OR GAS SANDS OR ZONES

(Describe gas by G)
No. 1, from _____ to _____
No. 2, from _____ to _____
No. 3, from _____ to _____
No. 4, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____
No. 2, from _____ to _____
No. 3, from _____ to _____
No. 4, from _____ to _____

CASING RECORD

Casing	Size	Weight	Threads per	Make	Amount	Kind of shoe	Out and pulled from	Remarks

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, 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.

HISTORY OF OIL OR GAS WELL

MUDDING AND CEMENTING RECORD

Cement	Weight	Number sacks of cement	Method used	Spud mud	Amount of mud used

PLUGS AND ADAPTERS

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

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 _____ feet to _____ feet, and from _____ feet to _____ feet.

DATES

Put to producing _____
The production for the first 24 hours was _____
If gas, oil, or water, state the amount and character of the production. If gas, state the pressure and the amount of gas produced. If oil, state the amount of oil produced. If water, state the amount of water produced. If gas, oil, or water, state the amount and character of the production. If gas, state the pressure and the amount of gas produced. If oil, state the amount of oil produced. If water, state the amount of water produced.

EMPLOYEES

Driller _____
Driller _____

FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION
1890	1895	5	Red sand and shale
1895	1900	5	Red sand and shale
1900	1905	5	Red sand and shale
1905	1910	5	Red sand and shale
1910	1915	5	Red sand and shale
1915	1920	5	Red sand and shale
1920	1925	5	Red sand and shale
1925	1930	5	Red sand and shale
1930	1935	5	Red sand and shale
1935	1940	5	Red sand and shale
1940	1945	5	Red sand and shale
1945	1950	5	Red sand and shale
1950	1955	5	Red sand and shale
1955	1960	5	Red sand and shale
1960	1965	5	Red sand and shale
1965	1970	5	Red sand and shale
1970	1975	5	Red sand and shale
1975	1980	5	Red sand and shale
1980	1985	5	Red sand and shale
1985	1990	5	Red sand and shale
1990	1995	5	Red sand and shale
1995	2000	5	Red sand and shale
2000	2005	5	Red sand and shale
2005	2010	5	Red sand and shale
2010	2015	5	Red sand and shale
2015	2020	5	Red sand and shale
2020	2025	5	Red sand and shale
2025	2030	5	Red sand and shale
2030	2035	5	Red sand and shale
2035	2040	5	Red sand and shale
2040	2045	5	Red sand and shale
2045	2050	5	Red sand and shale
2050	2055	5	Red sand and shale
2055	2060	5	Red sand and shale
2060	2065	5	Red sand and shale
2065	2070	5	Red sand and shale
2070	2075	5	Red sand and shale
2075	2080	5	Red sand and shale
2080	2085	5	Red sand and shale
2085	2090	5	Red sand and shale
2090	2095	5	Red sand and shale
2095	2100	5	Red sand and shale
2100	2105	5	Red sand and shale
2105	2110	5	Red sand and shale
2110	2115	5	Red sand and shale
2115	2120	5	Red sand and shale
2120	2125	5	Red sand and shale
2125	2130	5	Red sand and shale
2130	2135	5	Red sand and shale
2135	2140	5	Red sand and shale
2140	2145	5	Red sand and shale
2145	2150	5	Red sand and shale
2150	2155	5	Red sand and shale
2155	2160	5	Red sand and shale
2160	2165	5	Red sand and shale
2165	2170	5	Red sand and shale
2170	2175	5	Red sand and shale
2175	2180	5	Red sand and shale
2180	2185	5	Red sand and shale
2185	2190	5	Red sand and shale
2190	2195	5	Red sand and shale
2195	2200	5	Red sand and shale
2200	2205	5	Red sand and shale
2205	2210	5	Red sand and shale
2210	2215	5	Red sand and shale
2215	2220	5	Red sand and shale
2220	2225	5	Red sand and shale
2225	2230	5	Red sand and shale
2230	2235	5	Red sand and shale
2235	2240	5	Red sand and shale
2240	2245	5	Red sand and shale
2245	2250	5	Red sand and shale
2250	2255	5	Red sand and shale
2255	2260	5	Red sand and shale
2260	2265	5	Red sand and shale
2265	2270	5	Red sand and shale
2270	2275	5	Red sand and shale
2275	2280	5	Red sand and shale
2280	2285	5	Red sand and shale
2285	2290	5	Red sand and shale
2290	2295	5	Red sand and shale
2295	2300	5	Red sand and shale
2300	2305	5	Red sand and shale
2305	2310	5	Red sand and shale
2310	2315	5	Red sand and shale
2315	2320	5	Red sand and shale
2320	2325	5	Red sand and shale
2325	2330	5	Red sand and shale
2330	2335	5	Red sand and shale
2335	2340	5	Red sand and shale
2340	2345	5	Red sand and shale
2345	2350	5	Red sand and shale
2350	2355	5	Red sand and shale
2355	2360	5	Red sand and shale
2360	2365	5	Red sand and shale
2365	2370	5	Red sand and shale
2370	2375	5	Red sand and shale
2375	2380	5	Red sand and shale
2380	2385	5	Red sand and shale
2385	2390	5	Red sand and shale
2390	2395	5	Red sand and shale
2395	2400	5	Red sand and shale
2400	2405	5	Red sand and shale
2405	2410	5	Red sand and shale
2410	2415	5	Red sand and shale
2415	2420	5	Red sand and shale
2420	2425	5	Red sand and shale
2425	2430	5	Red sand and shale
2430	2435	5	Red sand and shale
2435	2440	5	Red sand and shale
2440	2445	5	Red sand and shale
2445	2450	5	Red sand and shale
2450	2455	5	Red sand and shale
2455	2460	5	Red sand and shale
2460	2465	5	Red sand and shale
2465	2470	5	Red sand and shale
2470	2475	5	Red sand and shale
2475	2480	5	Red sand and shale
2480	2485	5	Red sand and shale
2485	2490	5	Red sand and shale
2490	2495	5	Red sand and shale
2495	2500	5	Red sand and shale
2500	2505	5	Red sand and shale
2505	2510	5	Red sand and shale
2510	2515	5	Red sand and shale
2515	2520	5	Red sand and shale
2520	2525	5	Red sand and shale
2525	2530	5	Red sand and shale
2530	2535	5	Red sand and shale
2535	2540	5	Red sand and shale
2540	2545	5	Red sand and shale
2545	2550	5	Red sand and shale
2550	2555	5	Red sand and shale
2555	2560	5	Red sand and shale
2560	2565	5	Red sand and shale
2565	2570	5	Red sand and shale
2570	2575	5	Red sand and shale
2575	2580	5	Red sand and shale
2580	2585	5	Red sand and shale
2585	2590	5	Red sand and shale
2590	2595	5	Red sand and shale
2595	2600	5	Red sand and shale
2600	2605	5	Red sand and shale
2605	2610	5	Red sand and shale
2610	2615	5	Red sand and shale
2615	2620	5	Red sand and shale
2620	2625	5	Red sand and shale
2625	2630	5	Red sand and shale
2630	2635	5	Red sand and shale
2635	2640	5	Red sand and shale
2640	2645	5	Red sand and shale
2645	2650	5	Red sand and shale
2650	2655	5	Red sand and shale
2655	2660	5	Red sand and shale
2660	2665	5	Red sand and shale
2665	2670	5	Red sand and shale
2670	2675	5	Red sand and shale
2675	2680	5	Red sand and shale
2680	2685	5	Red sand and shale
2685	2690	5	Red sand and shale
2690	2695	5	Red sand and shale
2695	2700	5	Red sand and shale
2700	2705	5	Red sand and shale
2705	2710	5	Red sand and shale
2710	2715	5	Red sand and shale
2715	2720	5	Red sand and shale
2720	2725	5	Red sand and shale
2725	2730	5	Red sand and shale
2730	2735	5	Red sand and shale
2735	2740	5	Red sand and shale
2740	2745	5	Red sand and shale
2745	2750	5	Red sand and shale
2750	2755	5	Red sand and shale
2755	2760	5	Red sand and shale
2760	2765	5	Red sand and shale
2765	2770	5	Red sand and shale
2770	2775	5	Red sand and shale
2775	2780	5	Red sand and shale
2780	2785	5	Red sand and shale
2785	2790	5	Red sand and shale
2790	2795	5	Red sand and shale
2795	2800	5	Red sand and shale
2800	2805	5	Red sand and shale
2805	2810	5	Red sand and shale
2810	2815	5	Red sand and shale
2815	2820	5	Red sand and shale
2820	2825	5	Red sand and shale
2825	2830	5	Red sand and shale
2830	2835	5	Red sand and shale
2835	2840	5	Red sand and shale
2840	2845	5	Red sand and shale
2845	2850	5	Red sand and shale
2850	2855	5	Red sand and shale
2855	2860	5	Red sand and shale
2860	2865	5	Red sand and shale
2865	2870	5	Red sand and shale
2870	2875	5	Red sand and shale
2875	2880	5	Red sand and shale
2880	2885	5	Red sand and shale
2885	2890	5	Red sand and shale
2890	2895	5	Red sand and shale
2895	2900	5	Red sand and shale
2900	2905	5	Red sand and shale
2905	2910	5	Red sand and shale
2910	2915	5	Red sand and shale
2915	2920	5	Red sand and shale
2920	2925	5	Red sand and shale
2925	2930	5	Red sand and shale
2930	2935	5	Red sand and shale
2935	2940	5	Red sand and shale
2940	2945	5	Red sand and shale
2945	2950	5	Red sand and shale
2950	2955	5	Red sand and shale
2955	2960	5	Red sand and shale
2960	2965	5	Red sand and shale
2965	2970	5	Red sand and shale
2970	2975	5	Red sand and shale
2975	2980	5	Red sand and shale
2980	2985	5	Red sand and shale
2985	2990	5	Red sand and shale
2990	2995	5	Red sand and shale
2995	3000	5	Red sand and shale

FORMATION RECORD—Continued