

DUPLICATE

Form SG 108

N.

NEW MEXICO STATE LAND OFFICE

SANTA FE, NEW MEXICO

DEPARTMENT OF THE STATE GEOLOGIST

WELL RECORD

Mail to State Geologist, Santa Fe, New Mexico, not more than ten days after completion of well. Indicate questionable data by following it with (?). Submit in duplicate.

Company **HARRY LEONARD, INC.** Address **Roswell, New Mexico**

Send correspondence to _____ Address _____

Leonard-Barnsdall State Well No. **1** in **SW 1/4 SW 1/4** of Sec. **21**, T. **17S**, R. **29E**, N. M. P. M., **Artesia** Oil Field **Eddy** County.

Original was #711

If State land the oil and gas lease is No. _____ Assignment No. _____

If patented land the owner is _____ Address _____

The lessee is _____ Address _____

If not state or patented land, give status _____

Drilling commenced **December 13** 19 **33** Drilling was completed **February 28**, 19 **34**

Name of drilling contractor **Emery Carper** Address **Artesia, N. M.**

Elevation above sea level at top of casing **3594'** feet.

The information given is to be kept confidential until _____ 19 _____.

OIL SANDS OR ZONES

No. 1, from **2199'** to **2201'** No. 4, from _____ to _____

No. 2, from **2257'** to **2275'** No. 5, from _____ to _____

No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from **215'** to **220'** No. 3, from _____ to _____

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

CASING RECORD

SIZE	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & PULLED FROM	PERFORATED		PURPOSE
							FROM	TO	
10"	40#			302'					
8"	38#			2106'					
6-5/8"	24#			2302'					

MUDDING AND CEMENTING RECORD

SIZE	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
10"					Mudded to top
8"					Mudded
6-5/8"		Cemented, 2 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
			20 qt	1-16-34	2201'	
			40 "	1-16-34	2202'	

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

3 National

PRODUCTION

Put to producing **2-1-34**, 19 _____.

The production of the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ % emulsion; _____ % water; and _____ % sediment. Gravity, Be _____

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

Rock pressure, lbs. per sq. in. _____

EMPLOYES

Emery Carper _____, Driller _____, Driller

John Smith _____, Driller _____, Driller

FORMATION RECORD ON OTHER SIDE

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

Subscribed and sworn to before me this **7th** Name **Harry Leonard**

day of **March**, 19 **34** Position _____

Blanche Wiley _____ Representing **HARRY LEONARD, INC.**, _____

Notary Public. _____ Company or Operator.

My commission expires **March 28, 1936**

DUPLICATE

MAR 20 1934

APPROVED AS O. K.

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
LEONARD-BARNSDALL, State #1, SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 21-17S-29E, Eddy County, New Mexico. ELEVATION: 3594'			
0-	5	Soil	2246-2251 Sandy Lime
5-	20	Caliche	2251-2265 Gas Sand
20-	200	Red Beds	2265-2321 Gray Lime
200-	270	Red Beds & Gyp	2321-2338 Gray Lime, Dark
		2 BAILERS WATER PER	2338-2347 Light Gray Lime
		HOUR 215-220	2347-2372 Gray Lime
270-	280	Red Beds	2372-2393 Light Gray Lime
280-	301	Gyp	2393-2400 Lime, white
301-	408	Red Beds & Gyp	2400-2405 LIGHT SHOW OIL
408-	635	Salt	2400-2438 White Lime
635-	643	Salt & Streaks Anhy.	2438-2530 Light Gray Lime
643-	665	Gray Anhydrite	2530-2549 White Lime
665-	690	Anhy. & Red Beds	2549-2978 Light Gray Lime
690-	700	Anhy. Shells & Br. Shale	2578-2615 Gray Lime
700-	708	Anhydrite & Salt	2615-2640 Dark Gray Lime
708-	717	Salt	2640-2645 Gray lime - SHOW OIL
717-	737	Gray Anhydrite	2645-2679 Gray Lime
737-	822	Anhydrite	2679-2735 Dark Gray Lime
822-	914	Brown Shale	2735-2796 Dark Gray Lime
914-	921	Gray Lime & Gyp	2796-2825 Gray Lime
921-	955	Gyp & Brown Shale	2825-2875 Dark Gray Lime
955-	974	Anhy. & Brown Shale	2875-2887 Black Lime - LITTLE INCREASE
974-	985	Gray Lime	IN OIL SHOWING BETWEEN
985-	1000	Shale & Anhydrite	2875-2880
1000-	1022	Anhydrite	2887-3004 Dark Gray Lime - APPROX. 1
1022-	1080	Anhy. & Brown Shale	T.D. BBL INCREASE FROM 2875-2920.
1080-	1100	Anhydrite, some Shale	
1100-	1165	Gyp & Anhydrite	
1165-	1285	Anhydrite - OIL SHOWING	
		1165-1170	
1285-	1296	Anhydrite & Brown Shale	
1296-	1335	Gray Anhydrite	
1335-	1420	Anhydrite	
1420-	1448	Anhydrite & Brown Shale	
1448-	1460	Anhydrite	
1460-	1475	Brown Shale	
1475-	1485	Anhy. & Brown Shale	
1485-	1509	Anhydrite	
1509-	1540	Brown Shale & Anhy.	
1540-	1595	Anhydrite	
1595-	1690	Brown Shale & Anhydrite	
1690-	1708	Red Sand	
1708-	1742	Anhydrite	
1742-	1768	Brown Shale & Anhy.	
1768-	1823	Anhydrite	
1823-	1845	Gray Lime	
1845-	2005	Anhydrite & Br. Shale	
2005-	2014	Gray Lime	
2014-	2043	Anhydrite	
2043-	2080	Brown Lime - TOP OF LIME	
2080-	2120	Gray Lime	
2120-	2147	Lime	
2147-	2189	Lime Gray	
2189-	2201	Brown Lime - APPROXIMATELY	
		1,000,000 GAS 2199-2201	
2201-	2246	Gray Lime	

CASING RECORD:

10"	302'
8"	2106'
6-5/8"	2302'