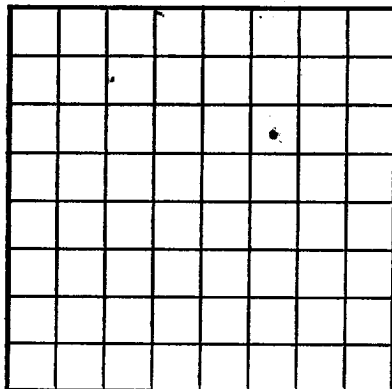




LOCATE WELL CORRECTLY

RECEIVED
JUN 25 1951
U.S. LAND OFFICE
SERIAL NUMBER 06824(4)
LEASE OR PERMIT TO PROSPECT

U.S. LAND OFFICE **Las Cruces**
SERIAL NUMBER **06824(4)**
LEASE OR PERMIT TO PROSPECT

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 _____ Field **South Leonard** State **New Mexico**
Well No. **2** Sec. **23** T. **26S** R. **37E** Meridian **N.M.P.M.** County **Lea**
Location **3,630 ft. (N.)** of **3** Line and **3,630 ft. (E.)** of **4** Line of **Section 23** Elevation **2,988 L.S.**
(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 L. Nelson*

Date **June 14, 1951** Title **Secretary-Treasurer**

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

Commenced drilling **April 24,** 19 **51** Finished drilling **June 7,** 19 **51**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **3452** to **3456 0** 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 **None** to _____ 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—	
8-5/8"	24	300'	Halliburton	3,350'	Two Stage Tool	In Hole			Surface Prod. String
5-1/2"	15-1/2	3,345'	Halliburton	3,345'	Cement	In Hole			
					Float Shoe				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	300'	125	Halliburton		
5-1/2"	3,345'	150 & 100	Halliburton		
			Two Stage Tool		

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
None						

TOOLS USED

Rotary tools were used from _____ feet to **3,350** feet, and from _____ feet to _____ feet
Cable tools were used from **3,350** feet to **3,620** 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; _____ % 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

R. O. Blackledge, Driller **R. C. Willard**, Driller
C. M. Brown, Driller **Earl Moore**, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	100	100	Sand & Caliche
100	200	100	Red Sand
200	1,045	845	Red Bed
1,045	1,175	130	Sand Line
1,175	1,380	205	Salt
1,380	1,405	25	Anhydrite
1,405	1,430	25	Salt
1,430	1,580	150	Anhydrite & Salt
1,580	1,620	40	Anhydrite
1,620	1,760	140	Salt
1,760	2,490	730	Anhydrite - Salt
2,490	2,522	32	Anhydrite & Gray Line
2,522	2,540	18	Gray Line
2,540	2,565	25	Anhydrite
2,565	2,594	29	Anhydrite & Line
2,594	2,856	262	Line
2,856	2,896	40	Anhydrite & Line
2,896	2,940	44	Line
2,940	2,974	34	Gray & Brown Line
2,974	3,353	379	Line
3,353	3,357	4	Line Sandy Shale
3,357	3,404	47	Line
3,404	3,432	28	Sandy Line
3,432	3,434	2	Line

(OVER)

FORMATION RECORD—CONTINUED

16-43094-1

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

Commenced drilling _____ 19____
Finished drilling _____ 19____
The summary on this page is for the condition of the well at above date.
Date _____ Title _____

OIL OR GAS SANDS OR ZONES

(f) *Adverse effects*

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

IMPORTANT WATER SAVING

*MOU JED TTE :TET I ENR JOARA :BTUD 6-

to 3,600 in lime and P.B. from 10 to 13,200 with 30 sacks cement. The 5-T-15 set at 1,700 with 30 sacks cement, the 5-T-15 set at 1,700 and cemented and grouted the two-stage tool set at 1,700 and 100 sacks cement at bottom of the well. With 20 sacks of grout. Well-head filled with grout and 20 Gate Valve. Well made

Case No.	Location	Depth, feet	Date	Kind of pipe	Out and pulled from	Remarks
1	...	...	...	...	...	...
2	...	...	...	...	...	...
3	...	...	...	...	...	...
4	...	...	...	...	...	...
5	...	...	...	...	...	...
6	...	...	...	...	...	...
7	...	...	...	...	...	...
8	...	...	...	...	...	...
9	...	...	...	...	...	...
10	...	...	...	...	...	...
11	...	...	...	...	...	...
12	...	...	...	...	...	...
13	...	...	...	...	...	...
14	...	...	...	...	...	...
15	...	...	...	...	...	...
16	...	...	...	...	...	...
17	...	...	...	...	...	...
18	...	...	...	...	...	...
19	...	...	...	...	...	...
20	...	...	...	...	...	...
21	...	...	...	...	...	...
22	...	...	...	...	...	...
23	...	...	...	...	...	...
24	...	...	...	...	...	...
25	...	...	...	...	...	...
26	...	...	...	...	...	...
27	...	...	...	...	...	...
28	...	...	...	...	...	...
29	...	...	...	...	...	...
30	...	...	...	...	...	...
31	...	...	...	...	...	...
32	...	...	...	...	...	...
33	...	...	...	...	...	...
34	...	...	...	...	...	...
35	...	...	...	...	...	...
36	...	...	...	...	...	...
37	...	...	...	...	...	...
38	...	...	...	...	...	...
39	...	...	...	...	...	...
40	...	...	...	...	...	...
41	...	...	...	...	...	...
42	...	...	...	...	...	...
43	...	...	...	...	...	...
44	...	...	...	...	...	...
45	...	...	...	...	...	...
46	...	...	...	...	...	...
47	...	...	...	...	...	...
48	...	...	...	...	...	...
49	...	...	...	...	...	...
50	...	...	...	...	...	...
51	...	...	...	...	...	...
52	...	...	...	...	...	...
53	...	...	...	...	...	...
54	...	...	...	...	...	...
55	...	...	...	...	...	...
56	...	...	...	...	...	...
57	...	...	...	...	...	...
58	...	...	...	...	...	...
59	...	...	...	...	...	...
60	...	...	...	...	...	...
61	...	...	...	...	...	...
62	...	...	...	...	...	...
63	...	...	...	...	...	...
64	...	...	...	...	...	...
65	...	...	...	...	...	...
66	...	...	...	...	...	...
67	...	...	...	...	...	...
68	...	...	...	...	...	...
69	...	...	...	...	...	...
70	...	...	...	...	...	...
71	...	...	...	...	...	...
72	...	...	...	...	...	...
73	...	...	...	...	...	...
74	...	...	...	...	...	...
75	...	...	...	...	...	...
76	...	...	...	...	...	...
77	...	...	...	...	...	...
78	...	...	...	...	...	...
79	...	...	...	...	...	...

HISTORY OF OIL OR GAS WELL

U. S. GOVERNMENT PRINTING OFFICE

Room Number	Room Name	Room Number	Room Name	Room Number	Room Name
101	Room 101	102	Room 102	103	Room 103
104	Room 104	105	Room 105	106	Room 106
107	Room 107	108	Room 108	109	Room 109
110	Room 110	111	Room 111	112	Room 112
113	Room 113	114	Room 114	115	Room 115
116	Room 116	117	Room 117	118	Room 118
119	Room 119	120	Room 120	121	Room 121
122	Room 122	123	Room 123	124	Room 124
125	Room 125	126	Room 126	127	Room 127
128	Room 128	129	Room 129	130	Room 130
131	Room 131	132	Room 132	133	Room 133
134	Room 134	135	Room 135	136	Room 136
137	Room 137	138	Room 138	139	Room 139
140	Room 140	141	Room 141	142	Room 142
143	Room 143	144	Room 144	145	Room 145
146	Room 146	147	Room 147	148	Room 148
149	Room 149	150	Room 150	151	Room 151
152	Room 152	153	Room 153	154	Room 154
155	Room 155	156	Room 156	157	Room 157
158	Room 158	159	Room 159	160	Room 160
161	Room 161	162	Room 162	163	Room 163
164	Room 164	165	Room 165	166	Room 166
167	Room 167	168	Room 168	169	Room 169
170	Room 170	171	Room 171	172	Room 172
173	Room 173	174	Room 174	175	Room 175
176	Room 176	177	Room 177	178	Room 178
179	Room 179	180	Room 180	181	Room 181
182	Room 182	183	Room 183	184	Room 184
185	Room 185	186	Room 186	187	Room 187
188	Room 188	189	Room 189	190	Room 190
191	Room 191	192	Room 192	193	Room 193
194	Room 194	195	Room 195	196	Room 196
197	Room 197	198	Room 198	199	Room 199
200	Room 200	201	Room 201	202	Room 202

PLUGS AND ADAPTERS

SHOOTING RECORD		SHOOTING RECORD	
Target	Score	Target	Score
1000 yds	100	1000 yds	100
800 yds	100	800 yds	100
600 yds	100	600 yds	100
400 yds	100	400 yds	100
200 yds	100	200 yds	100
100 yds	100	100 yds	100
50 yds	100	50 yds	100
25 yds	100	25 yds	100
10 yds	100	10 yds	100
5 yds	100	5 yds	100
2 yds	100	2 yds	100
1 yd	100	1 yd	100

GEORGE SMITHSON

Item No.	Description	Unit	Quantity	Unit Price	Total Price
1	...	...	...	...	...
2	...	...	...	...	...
3	...	...	...	...	...
4	...	...	...	...	...
5	...	...	...	...	...
6	...	...	...	...	...
7	...	...	...	...	...
8	...	...	...	...	...
9	...	...	...	...	...
10	...	...	...	...	...
11	...	...	...	...	...
12	...	...	...	...	...
13	...	...	...	...	...
14	...	...	...	...	...
15	...	...	...	...	...
16	...	...	...	...	...
17	...	...	...	...	...
18	...	...	...	...	...
19	...	...	...	...	...
20	...	...	...	...	...
21	...	...	...	...	...
22	...	...	...	...	...
23	...	...	...	...	...
24	...	...	...	...	...
25	...	...	...	...	...
26	...	...	...	...	...
27	...	...	...	...	...
28	...	...	...	...	...
29	...	...	...	...	...
30	...	...	...	...	...
31	...	...	...	...	...
32	...	...	...	...	...
33	...	...	...	...	...
34	...	...	...	...	...
35	...	...	...	...	...
36	...	...	...	...	...
37	...	...	...	...	...
38	...	...	...	...	...
39	...	...	...	...	...
40	...	...	...	...	...
41	...	...	...	...	...
42	...	...	...	...	...
43	...	...	...	...	...
44	...	...	...	...	...
45	...	...	...	...	...
46	...	...	...	...	...
47	...	...	...	...	...
48	...	...	...	...	...
49	...	...	...	...	...
50	...	...	...	...	...
51	...	...	...	...	...
52	...	...	...	...	...
53	...	...	...	...	...
54	...	...	...	...	...
55	...	...	...	...	...
56	...	...	...	...	...
57	...	...	...	...	...
58	...	...	...	...	...
59	...	...	...	...	...
60	...	...	...	...	...
61	...	...	...	...	...
62	...	...	...	...	...
63	...	...	...	...	...
64	...	...	...	...	...
65	...	...	...	...	...
66	...	...	...	...	...
67	...	...	...	...	...
68	...	...	...	...	...
69	...	...	...	...	...
70	...	...	...	...	...
71	...	...	...	...	...
72	...	...	...	...	...
73	...	...	...	...	...
74	...	...	...	...	...
75	...	...	...	...	...
76	...	...	...	...	...
77	...	...	...	...	...
78	...	...	...	...	...
79	...	...	...	...	...
80	...	...	...	...	...
81	...	...	...	...	...
82	...	...	...	...	...
83	...	...	...	...	...
84	...	...	...	...	...
85	...	...	...	...	...
86	...	...	...	...	...
87	...	...	...	...	...
88	...	...	...	...	...
89	...	...	...	...	...
90	...	...	...	...	

TOOLS USED

feet	of feet	and feet	feet	of feet	more than one sheet used
feet	of feet	and feet	feet	of feet	more than one sheet used

2014

18	Put to producing
19	The production for the first 24 hours was
20	of water; and
21	of sediment.
22	Gravel, fine
23	Gravel, fine
24	Gravel, fine
25	Gravel, fine
26	Gravel, fine
27	Gravel, fine
28	Gravel, fine
29	Gravel, fine
30	Gravel, fine
31	Gravel, fine
32	Gravel, fine
33	Gravel, fine
34	Gravel, fine
35	Gravel, fine
36	Gravel, fine
37	Gravel, fine
38	Gravel, fine
39	Gravel, fine
40	Gravel, fine
41	Gravel, fine
42	Gravel, fine
43	Gravel, fine
44	Gravel, fine
45	Gravel, fine
46	Gravel, fine
47	Gravel, fine
48	Gravel, fine
49	Gravel, fine
50	Gravel, fine
51	Gravel, fine
52	Gravel, fine
53	Gravel, fine
54	Gravel, fine
55	Gravel, fine
56	Gravel, fine
57	Gravel, fine
58	Gravel, fine
59	Gravel, fine
60	Gravel, fine
61	Gravel, fine
62	Gravel, fine
63	Gravel, fine
64	Gravel, fine
65	Gravel, fine
66	Gravel, fine
67	Gravel, fine
68	Gravel, fine
69	Gravel, fine
70	Gravel, fine
71	Gravel, fine
72	Gravel, fine
73	Gravel, fine
74	Gravel, fine
75	Gravel, fine
76	Gravel, fine
77	Gravel, fine
78	Gravel, fine
79	Gravel, fine
80	Gravel, fine
81	Gravel, fine
82	Gravel, fine
83	Gravel, fine
84	Gravel, fine
85	Gravel, fine
86	Gravel, fine
87	Gravel, fine
88	Gravel, fine
89	Gravel, fine
90	Gravel, fine
91	Gravel, fine
92	Gravel, fine
93	Gravel, fine
94	Gravel, fine
95	Gravel, fine
96	Gravel, fine
97	Gravel, fine
98	Gravel, fine
99	Gravel, fine
100	Gravel, fine

EMPLOYERS

Driller		
Driller		

INFORMATION RECORD

FORMATION	THICKNESS IN FEET	DEPTH IN FEET	FROM
Lime & Shale	1	138	137
Shale	5	143	142
Lime	0	143	141
Lime & Sand	1	146	140
Lime	1	147	139
Lime	1	148	138
Lime & Shale	5	153	137
Lime & Sand	1	154	136
Lime	1	155	135
Lime	1	156	134
Lime	1	157	133
Lime	6	163	127
Lime	5	168	122
Lime & Shale	1	169	121
Lime & Sand	1	170	120
Lime	11	181	109
Lime & Sand	17	198	92
Lime	7	205	85
Lime & Sand	8	213	77
Lime	3	216	74
Lime	2	218	72
Lime & Sand	7	225	65
Lime	3	228	62
Lime	3	231	59
Lime	3	234	56
Lime	3	237	53
Lime	3	240	50
Lime	3	243	47
Lime	3	246	44
Lime	3	249	41
Lime	3	252	38
Lime	3	255	35
Lime	3	258	32
Lime	3	261	29
Lime	3	264	26
Lime	3	267	23
Lime	3	270	20
Lime	3	273	17
Lime	3	276	14
Lime	3	279	11
Lime	3	282	8
Lime	3	285	5
Lime	3	288	2
Lime	3	291	-1
Lime	3	294	-4
Lime	3	297	-7
Lime	3	300	-10
Lime	3	303	-13
Lime	3	306	-16
Lime	3	309	-19
Lime	3	312	-22
Lime	3	315	-25
Lime	3	318	-28
Lime	3	321	-31
Lime	3	324	-34
Lime	3	327	-37
Lime	3	330	-40
Lime	3	333	-43
Lime	3	336	-46
Lime	3	339	-49
Lime	3	342	-52
Lime	3	345	-55
Lime	3	348	-58
Lime	3	351	-61
Lime	3	354	-64
Lime	3	357	-67
Lime	3	360	-70
Lime	3	363	-73
Lime	3	366	-76
Lime	3	369	-79
Lime	3	372	-82
Lime	3	375	-85
Lime	3	378	-88
Lime	3	381	-91
Lime	3	384	-94
Lime	3	387	-97
Lime	3	390	-100
Lime	3	393	-103
Lime	3	396	-106
Lime	3	399	-109
Lime	3	402	-112
Lime	3	405	-115
Lime	3	408	-118
Lime	3	411	-121
Lime	3	414	-124
Lime	3	417	-127
Lime	3	420	-130
Lime	3	423	-133
Lime	3	426	-136
Lime	3	429	-139
Lime	3	432	-142
Lime	3	435	-145
Lime	3	438	-148
Lime	3	441	-151
Lime	3	444	-154
Lime	3	447	-157
Lime	3	450	-160
Lime	3	453	-163
Lime	3	456	-166
Lime	3	459	-169
Lime	3	462	-172
Lime	3	465	-175
Lime	3	468	-178
Lime	3	471	-181
Lime	3	474	-184
Lime	3	477	-187
Lime	3	480	-190
Lime	3	483	-193
Lime	3	486	-196
Lime	3	489	-199
Lime	3	492	-202
Lime	3	495	-205
Lime	3	498	-208
Lime	3	501	-211
Lime	3	504	-214
Lime	3	507	-217
Lime	3	510	-220
Lime	3	513	-223
Lime	3	516	-226
Lime	3		