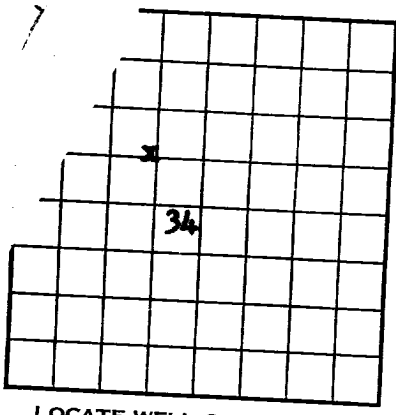


U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 058179
LEASE OR PERMIT TO PROSPECT Leonard

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



LOG OF OIL OR GAS WELL

Company Sanders Brothers Address Box 746, Artesia, New Mexico
Lessor or Tract Leonard Field High Lonesome State New Mexico
Well No. 5 Sec 34 T. 16S R. 30E Meridian NMPM County Eddy
Location 1980 ft. [N] of [S] Line and 1980 ft. [E] of [W] Line of sec. 34 Elevation 3742
(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.

Date May 7, 1942 Signed Forrest Warren
Title Bookkeeper

The summary on this page is for the condition of the well at above date.
Commenced drilling March 10, 1942 Finished drilling April 30, 1942

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2902 to 2912 No. 4, from _____ to _____
No. 2, from 2935 to 2962 No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from 2210 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"	515	50							
7"	2273								
5 1/2"	2816	100							
(7" pulled when 5 1/2" run)									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8"	515'	50			
7"	2273'				
5 1/2"	2816'	100			100
(7" pulled when 5 1/2" run)					

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
1"	1	M. G.	20 qts	4/25	2894-2902	
3"	1	"	13 "	"	2902-2912	29573
1"	2	"	60 "	"	2912-2935	
3"	3	"	10 "	"	2935-2962	

Rotary tools were used from _____ feet to 302 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

There has been a good show of oil & gas from 2902-2912. The main pay was from 2935-2962.
Before shooting this well, the oil would raise within 500' of top but would not flow. On a
12 hour test, production was estimated as being 2 bbls. per hour. After shooting this well
made 200 bbls. in 24 hours thru open 2" tubing set at 2880.

EMPLOYEES

W. L. Barrett, Driller Fred R. Whitaker, Driller
J. W. Phillips, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	20	20	Surface
20	95	75	Red Bed
95	170	75	Red Sandy Shale
170	240	70	Red Shale
240	270	30	Red Rock
270	275	5	Red Shale
275	295	20	Anhydrite
295	330	35	" & Shale
330	340	10	Gravel
340	385	45	Anhydrite
385	425	40	" & Shale
425	445	20	"
445	485	40	Shale, Anhydrite, & Gyp
485	495	10	Anhydrite & Shale
495	560	65	"
560	665	105	Salt
665	690	25	Salt & Potash
690	745	55	Salt
745	815	70	Anhydrite & Salt
815	1180	365	Salt
1180	1220	40	Anhydrite
1220	1275	55	Anhydrite (Broken)
1275	1300	25	" & Shale
1300	1410	110	"
1410	1500	90	" & Shale

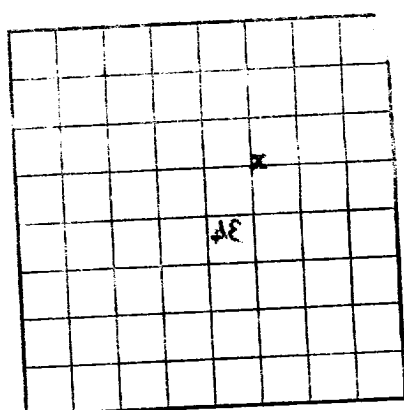
FORMATION RECORD CONTINUED

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED STATES

Based on Permit to Prospect No. 10000
General Number 10000
Date of Issue 10000



LOCATE WELL CORRECTLY

Company _____
Lessor or Tract _____
Well No. _____
Location _____
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 _____
Finished drilling _____
Time _____
Signed _____
Witness _____

OIL OR GAS SANDS OR ZONES

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

CASING RECORD

Casing	Weight	Length	Depth	Remarks
No. 1	_____	_____	_____	_____
No. 2	_____	_____	_____	_____
No. 3	_____	_____	_____	_____

HISTORY OF OIL OR GAS WELL

16-48000-1 U. S. GOVERNMENT PRINTING OFFICE

MUDDING AND CEMENTING RECORD

Mud	Weight	Length	Depth	Remarks
No. 1	_____	_____	_____	_____
No. 2	_____	_____	_____	_____
No. 3	_____	_____	_____	_____

SHOOTING RECORD

Shot	Weight	Length	Depth	Remarks
No. 1	_____	_____	_____	_____
No. 2	_____	_____	_____	_____
No. 3	_____	_____	_____	_____

DATES

Put to producing _____

EMPLOYEES

Driller _____
Driller _____
Driller _____

FORMATION RECORD

FORMATION	TOTAL FEET	TO	FROM
Time	2	2973	2971
Time	4	2971	2967
Time	18	2967	2949
Time	6	2949	2943
Time	29	2943	2914
Time	65	2914	2849
Time	30	2849	2819
Time	5	2819	2814
Time	5	2814	2809
Time	28	2809	2781
Time	9	2781	2772
Time	10	2772	2762
Time	5	2762	2757
Time	25	2757	2732
Time	65	2732	2667
Time	80	2667	2587
Time	35	2587	2552
Time	40	2552	2512
Time	30	2512	2482
Time	25	2482	2457
Time	30	2457	2427
Time	10	2427	2417
Time	20	2417	2397
Time	50	2397	2347
Time	25	2347	2322
Time	55	2322	2267
Time	25	2267	2242
Time	10	2242	2232
Time	5	2232	2227
Time	25	2227	2202
Time	65	2202	2137
Time	80	2137	2057
Time	35	2057	2022
Time	40	2022	1982
Time	30	1982	1952
Time	25	1952	1927
Time	30	1927	1897
Time	10	1897	1887
Time	20	1887	1867
Time	40	1867	1827
Time	50	1827	1777
Time	25	1777	1752
Time	55	1752	1697
Time	25	1697	1672
Time	10	1672	1662
Time	5	1662	1657
Time	25	1657	1632
Time	65	1632	1567
Time	80	1567	1487
Time	35	1487	1452
Time	40	1452	1412
Time	30	1412	1382
Time	25	1382	1357
Time	30	1357	1327
Time	10	1327	1317
Time	20	1317	1297
Time	40	1297	1257
Time	50	1257	1207
Time	25	1207	1182
Time	55	1182	1127
Time	25	1127	1102
Time	10	1102	1092
Time	5	1092	1087
Time	25	1087	1062
Time	65	1062	997
Time	80	997	917
Time	35	917	882
Time	40	882	842
Time	30	842	812
Time	25	812	787
Time	30	787	757
Time	10	757	747
Time	20	747	727
Time	40	727	687
Time	50	687	637
Time	25	637	612
Time	55	612	557
Time	25	557	532
Time	10	532	522
Time	5	522	517
Time	25	517	492
Time	65	492	427
Time	80	427	347
Time	35	347	312
Time	40	312	272
Time	30	272	242
Time	25	242	217
Time	30	217	187
Time	10	187	177
Time	20	177	157
Time	40	157	117
Time	50	117	67
Time	25	67	42
Time	55	42	17
Time	25	17	12
Time	10	12	7
Time	5	7	2

FORMATION RECORD—Continued