

U. S. LAND OFFICE Las Cruces, NM
SERIAL NUMBER 050864
LEASE OR PERMIT TO PROSPECT _____BillingsleaDEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Nay Hightower Address Box 704, Roswell, New Mexico
Lessor or Tract Billingslea Field Alcatraz State New Mexico
Well No. 1 Sec 28 T 11 R. 30 E Meridian Chaves County Chaves
Location 1980 ft. N of H Line and 1980 W of H Line of 3440 28. Elevation 3960 ft
(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 Nay Hightower

Title _____

Date March 14, 1940

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

Commenced drilling August 5, 19 38 Finished drilling September 21, 19 39

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3280 to 3297 No. 4, from _____ to _____
No. 2, from 3318 to 3430 No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from 325 to 355 No. 3, from _____ to _____
No. 2, from 3440 to 3445 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	
<u>12 1/2</u>	<u>50</u>	<u>8</u>	<u>Nat'l</u>	<u>375</u>	<u>Texas Pat.</u>				
<u>10</u>	<u>40</u>	<u>8</u>	<u>Nat'l</u>	<u>735</u>	<u>"</u>				
<u>8 1/2</u>	<u>32</u>	<u>8</u>	<u>Nat'l</u>	<u>2808</u>	<u>"</u>				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>12 1/2</u>	<u>375</u>			<u>10</u>	<u>Mudded to surface</u>
<u>10</u>	<u>735</u>	<u>10 sacks</u>	<u>Halliburton</u>		
<u>8 1/2</u>	<u>2808</u>	<u>50 sacks</u>			

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
<u>7</u>		<u>Nitroglycerin</u>	<u>400</u>	<u>7-8-39</u>	<u>3370-3420'</u>	<u>3430'</u>

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from 0 feet to 3445 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

E. A. Sample, Driller E. L. Read, Driller
E. L. Thorford, Tool Dresser Geo. W. Burton, Tool Dresser

FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION
<u>0</u>	<u>28</u>		<u>Sand</u>
	<u>310</u>		<u>Red rock</u>
	<u>325</u>		<u>Brown shale</u>
	<u>335</u>		<u>Water sand</u>
	<u>365</u>		<u>Sandy lime</u>
	<u>368</u>		<u>Blue shale</u>
	<u>378</u>		<u>Red clay</u>
	<u>390</u>		<u>Blue shale</u>
	<u>395</u>		<u>Red shale</u>
	<u>435</u>		<u>Red rock</u>
	<u>480</u>		<u>Red bed</u>
	<u>535</u>		<u>Sandy lime</u>
	<u>575</u>		<u>Sandy lime</u>
	<u>635</u>		<u>Red rock</u>
	<u>650</u>		<u>Sand</u>
	<u>710</u>		<u>Lime</u>
	<u>720</u>		<u>Red bed</u>
	<u>735</u>		<u>Anhydrite</u>
	<u>780</u>		<u>Anhydrite</u>
	<u>795</u>		<u>Salt and potash</u>
	<u>875</u>		<u>Potash, salt and anhydrite</u>
	<u>915</u>		<u>Anhydrite, salt and potash</u>
	<u>970</u>		<u>Anhydrite and salt. SHOW GAS @ 960'</u>

RECEIVED

OCT 1 1939

O.C.D. HOBBS, OFFICE

RECEIVED

OCT 1 1939

O.C.D. HOBBS, OFFICE

3440-3445. Surplus water, rising several hundred feet in hole, immediately
re-gain first production.
out 3430'. Cleaned out July 8-Sept. 21, but could not
with 7 inch shell, 400 gts. nitrogen. Depth cleaned
on top of shot gravel pack of 30 ft. Shot from 3370-3420
back at bottom of shot from 3420 to 3430', on top of plug;
current depth 3430', shot placed 3370-3420', 10 ft. Gravel
all pores of the lime and ruined the well.
July 8, 1939 Current depth, 3430', treated with 1500 gal. acid, sealed
May 21, 1939 Current depth, 3430', based on swabbing test, conservatively
estimated production 5 to 8 bbls. per hour, at 3430'.
with 1000 gal. acid, based on swabbing test, conservatively
let set 73 hrs., balled, tested May 6, found dry; treated
solid cement, 2 bbls. cement; completed water shut-off May 6.
Gravel pack 3440-3445, 1100 lbs., lead wool; 3430-3430', 5 ft.
May 14, 1939 Plugged back from 3445' to 3430', 3445-3440', 800 lbs. steel
casing; 3440-3445, 1100 lbs., lead wool; 3430-3430', 5 ft.

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, size, 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

8-6745

Broken Gray Lime stringers and anhydrite
Lime, hard
Gyp
Lime
Lime, hard
Lime, Gray
Lime, red shale
Red shale
Red sand
Sandy lime
Sandy lime, brown
Brown shale
Red sand
Brown lime, hard
Salt, gyp
Brown shale
Brown shale, salt
Brown shale, anhydrite
Salt, gyp
Salt, gyp
Red sand
Red sand
Red sand
Red sand
Red bed
Red bed
Red bed
Lime and anhydrite
Red bed
Sandy lime
Brown lime
Broken lime formation
Anhydrite
Anhydrite
Broken formation
Anhydrite, gyp
Lime
Shale, broken
Lime, anhydrite
Anhydrite and salt
Anhydrite, salt
Anhydrite and salt
Anhydrite
Lime
Gray shale
Anhydrite
Dark shale, sandy
Broken formation, dark
Red bed
Anhydrite
Anhydrite
Salt
Potash
Anhydrite
Red shale
Salt
Salt, potash
Salt, potash
Anhydrite, salt, potash
Anhydrite and salt

2795
2864
2755
2750
2730
2718
2685
2650
2645
2630
2605
2585
2565
2555
2535
2525
2495
2475
2445
2425
2405
2375
2310
2270
2240
2195
2175
2150
2130
2115
2085
2050
2005
1945
1905
1890
1870
1850
1820
1795
1735
1680
1600
1550
1545
1525
1520
1480
1455
1405
1375
1350
1340
1330
1320
1280
1260
1190
1130
1050

TOTAL FEET

TO

FROM

FORMATION RECORD - Continued

3415-3420	Lime, light brown, saturated	5 ft.
3420-3425	Lime, light brown, "	5 "
3425-3430	Lime, gray, "	5 ft.
3430-3435	Lime, gray,	
3435-3438	Lime, gray.	
3438-3439	Lime, gray.	
3439-3445	Lime, gray, carrying water - 760' of sulphur water and oil in hole after 15 hour shut down.	
3445	T.D.	

1. The following information was obtained from the records of the Department of the Interior, Bureau of Land Management, regarding the land owned by the United States in the State of California:

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3. The following information was obtained from the records of the Department of the Interior, Bureau of Land Management, regarding the land owned by the United States in the State of California:

4. The following information was obtained from the records of the Department of the Interior, Bureau of Land Management, regarding the land owned by the United States in the State of California:

5. The following information was obtained from the records of the Department of the Interior, Bureau of Land Management, regarding the land owned by the United States in the State of California:

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2805	Lime, gray
2819	Lime, gray
2845	Lime, gray
2861	Lime, gray, hard
2890	Lime, gray
2910	Lime, gray
2943	Lime, gray, anhydrite stringers
2961	Lime, gray
2989	Lime, gray
3006	Lime, gray
3037	Lime, gray
3058	Lime, gray
3069	Lime, gray
3085	Lime, gray
3104	Lime, gray
3110	Lime, gray
3117	Anhydrite
3133	Lime, gray
3145	Lime, gray
3175-3188	Lime, dark, anhydrite, slight showing OIL and GAS, 5 ft.
3188	Lime, dark
3198-3215	Anhydrite, lime stringers, showing OIL, 17 ft.
3215-3225	Lime, saturated, 10 ft.
3225-3228	Lime, brown, saturated 2 ft.
3228	Lime, brown, hard, showing OIL, 4 ft.
3232	Lime, brown
3237-3241	Lime, brown, hard, showing OIL 4 ft.
3241-3257	Lime, brown, showing GAS
3257-3263	Lime, brown, saturated 7 ft.
3263-3270	Lime, brown, saturated 7 ft.
3270-3275	Lime, brown, " 5 "
3275	Lime, brown
3280-3297	Lime, brown, saturated, 17 ft.
3297	Lime, brown, 12 hr. test, 90ft. free
3297 to	OIL in hole
3318	Lime, brown, saturated 21 ft.
3318- 3341	Lime, brown, " 23 "
3341-3345	Lime, brown, " 4 "
3345-3350	Lime, brown, " 5 "
3350-3355	Lime, brown, " 5 "
3355-3360	Lime, brown, " 5 "
3360-3365	Lime, brown, " 5 "
3365-3370	Lime, brown, " 5 "
3370-3375	Lime, gray, " 5 "
3375-3380	Lime, gray, " 5 "
3380-3385	Lime, brown, " 5 "
3385-3390	Lime, brown, " 5 "
3390-3395	Lime, brown, " 5 "
3395-3400	Lime, brown, " 5 "
3400-3405	Lime, brown, " 5 "
3405-3410	Lime, brown, " 5 "
3410-3415	Lime, brown, " 5 "

(reduced hole from 8 1/2" to 6")

CORRECTION: Straight reamed hole at 3415' and carried 8" hole on to 3445'

Time	Location	Remarks
1:00	1000	1000-1000
1:05	1000	1000-1000
1:10	1000	1000-1000
1:15	1000	1000-1000
1:20	1000	1000-1000
1:25	1000	1000-1000
1:30	1000	1000-1000
1:35	1000	1000-1000
1:40	1000	1000-1000
1:45	1000	1000-1000
1:50	1000	1000-1000
1:55	1000	1000-1000
2:00	1000	1000-1000
2:05	1000	1000-1000
2:10	1000	1000-1000
2:15	1000	1000-1000
2:20	1000	1000-1000
2:25	1000	1000-1000
2:30	1000	1000-1000
2:35	1000	1000-1000
2:40	1000	1000-1000
2:45	1000	1000-1000
2:50	1000	1000-1000
2:55	1000	1000-1000
3:00	1000	1000-1000
3:05	1000	1000-1000
3:10	1000	1000-1000
3:15	1000	1000-1000
3:20	1000	1000-1000
3:25	1000	1000-1000
3:30	1000	1000-1000
3:35	1000	1000-1000
3:40	1000	1000-1000
3:45	1000	1000-1000
3:50	1000	1000-1000
3:55	1000	1000-1000
4:00	1000	1000-1000
4:05	1000	1000-1000
4:10	1000	1000-1000
4:15	1000	1000-1000
4:20	1000	1000-1000
4:25	1000	1000-1000
4:30	1000	1000-1000
4:35	1000	1000-1000
4:40	1000	1000-1000
4:45	1000	1000-1000
4:50	1000	1000-1000
4:55	1000	1000-1000
5:00	1000	1000-1000
5:05	1000	1000-1000
5:10	1000	1000-1000
5:15	1000	1000-1000
5:20	1000	1000-1000
5:25	1000	1000-1000
5:30	1000	1000-1000
5:35	1000	1000-1000
5:40	1000	1000-1000
5:45	1000	1000-1000
5:50	1000	1000-1000
5:55	1000	1000-1000
6:00	1000	1000-1000
6:05	1000	1000-1000
6:10	1000	1000-1000
6:15	1000	1000-1000
6:20	1000	1000-1000
6:25	1000	1000-1000
6:30	1000	1000-1000
6:35	1000	1000-1000
6:40	1000	1000-1000
6:45	1000	1000-1000
6:50	1000	1000-1000
6:55	1000	1000-1000
7:00	1000	1000-1000
7:05	1000	1000-1000
7:10	1000	1000-1000
7:15	1000	1000-1000
7:20	1000	1000-1000
7:25	1000	1000-1000
7:30	1000	1000-1000
7:35	1000	1000-1000
7:40	1000	1000-1000
7:45	1000	1000-1000
7:50	1000	1000-1000
7:55	1000	1000-1000
8:00	1000	1000-1000
8:05	1000	1000-1000
8:10	1000	1000-1000
8:15	1000	1000-1000
8:20	1000	1000-1000
8:25	1000	1000-1000
8:30	1000	1000-1000
8:35	1000	1000-1000
8:40	1000	1000-1000
8:45	1000	1000-1000
8:50	1000	1000-1000
8:55	1000	1000-1000
9:00	1000</	