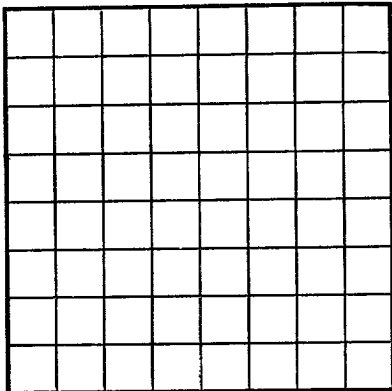


U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 047633 (a)
LEASE OR PERMIT TO PROSPECT _____



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Bob Johnson, Oil Operator Address Artesia, New Mexico
Lessor or Tract L.M. Swearingen, Permittee Field Shugart Area State New Mexico
Well No. 2 Sec. 14 T. 18S R. 31E Meridian NMPM County Eddy
Location 660 ft. N of N Line and 660 ft. E of E Line of Section 14 Elevation 3735
(Derive 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 Bob Johnson Title Partner
Date March 22, 1940

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

Commenced drilling May 23, 1939, 19____ Finished drilling August 9, 1939, 19____

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

No. 1, from 3467 to 3525 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 395 to 450 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—	
<u>8 1/2</u>	<u>32 1/2</u>	<u>8</u>	<u>Used</u>	<u>819'</u>	<u>Common</u>				<u>Top of Salt</u>
<u>5 1/2</u>	<u>14 1/2</u>	<u>8</u>	<u>Spang</u>	<u>3324'</u>	<u>Baker</u>				<u>Producing String</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8 1/2</u>	<u>819'</u>	<u>50</u>	<u>Halliburton</u>		<u>3 Tons</u>
<u>5 1/2</u>	<u>3324'</u>	<u>100</u>	<u>Halliburton</u>		<u>6 Tons</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>150 lbs</u>	<u>7-28</u>	<u>3467-3525</u>	<u>3535</u>

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from 0 feet to 3535 feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing August 10, 1939
The production for the first 24 hours was 25 barrels of fluid of which 100 % was oil; _____ %
emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. 37.7
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller
Steve Drake, Driller L. C. Wolfe, Driller
J. V. Sandlin, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>10</u>	<u>10</u>	<u>Sand</u>
<u>10</u>	<u>50</u>	<u>40</u>	<u>Red</u>
<u>50</u>	<u>105</u>	<u>55</u>	<u>Red Bed</u>
<u>105</u>	<u>110</u>	<u>5</u>	<u>Red Shale</u>
<u>110</u>	<u>155</u>	<u>45</u>	<u>Blue Shale</u>
<u>155</u>	<u>275</u>	<u>120</u>	<u>Red Bed</u>
<u>275</u>	<u>320</u>	<u>45</u>	<u>Red Rock-Sandy</u>
<u>320</u>	<u>420</u>	<u>100</u>	<u>Red Bed</u>
<u>420</u>	<u>460</u>	<u>40</u>	<u>Sand-Shale</u>
<u>460</u>	<u>475</u>	<u>15</u>	<u>Shale-Shells</u>
<u>475</u>	<u>490</u>	<u>15</u>	<u>Red Shale-Anhydrite Shells</u>
<u>490</u>	<u>535</u>	<u>45</u>	<u>Red Rock-Anhydrite</u>
<u>535</u>	<u>540</u>	<u>5</u>	<u>Red Shale-Shells</u>
<u>540</u>	<u>570</u>	<u>30</u>	<u>Lime</u>
<u>570</u>	<u>655</u>	<u>85</u>	<u>Red Bed-Shells</u>
<u>655</u>	<u>750</u>	<u>95</u>	<u>Red Shale-Shells</u>
<u>750</u>	<u>785</u>	<u>35</u>	<u>Sand-Shale</u>
<u>785</u>	<u>808</u>	<u>23</u>	<u>Red Shale</u>
<u>808</u>	<u>829</u>	<u>11</u>	<u>Anhydrite - Salt</u>
<u>829</u>	<u>846</u>	<u>27</u>	<u>Anhydrite</u>
<u>846</u>	<u>975</u>	<u>129</u>	<u>Anhydrite-Salt</u>
<u>975</u>	<u>980</u>	<u>5</u>	<u>Red Shale - Salt - Potash</u>
<u>980</u>	<u>1055</u>	<u>75</u>	<u>Anhydrite - Salt</u>
<u>1055</u>	<u>1105</u>	<u>50</u>	<u>Salt - Shells</u>
<u>1105</u>	<u>1125</u>	<u>20</u>	<u>Salt - Potash</u>
<u>1125</u>	<u>1165</u>	<u>40</u>	<u>Salt - Potash-Anhydrite - Shells</u>

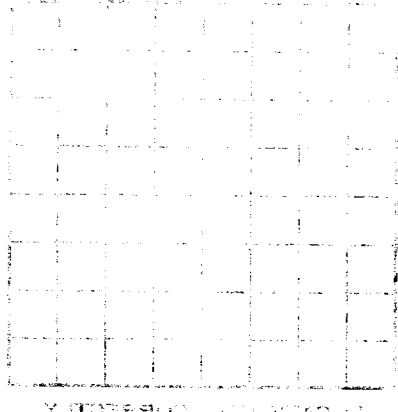
(OVER)

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
1165	1175	10	Salt - Anhydrite
1175	1190	15	Anhydrite
1190	1245	55	Salt - Anhydrite
1245	1260	15	Salt - Potash
1260	1265	5	Anhydrite - Shells
1265	1282	17	Salt - Potash
1282	1385	103	Anhydrite - Shells
1385	1395	10	Salt - Potash
1395	1552	157	Salt - Potash
1552	1590	38	Anhydrite - Potash
1590	1682	92	Salt - Potash
1682	1690	8	Salt - Gyp
1690	1702	12	Salt - Potash
1702	1720	18	Salt - Potash
1720	1900	180	Salt - Potash
1900	1905	5	Salt - Potash
1905	1920	15	Anhydrite - Shells
1920	1925	5	Salt - Potash
1925	1996	72	Anhydrite - Potash
1996	2066	70	Salt - Potash
2066	2070	4	Salt
2070	2276	206	Anhydrite
2276	2280	4	Red Shale
2280	2345	65	Anhydrite
2345	2353	8	Red Rock
2353	2360	7	Anhydrite
2360	2365	5	Red Rock
2365	2375	10	Reddish Sand - Anhydrite - Water
2375	2577	202	Anhydrite
2577	2585	8	Anhydrite - Red Rock
2585	2700	115	Anhydrite
2700	2705	5	Anhydrite - Shale - Sand
2705	2725	20	Red Rock - Anhydrite
2725	2860	135	Line
2860	2871	11	Anhydrite
2871	3008	137	Anhydrite - Line
3008	3026	18	Anhydrite
3026	3100	74	Line - Dark Grey
3100	3123	23	Line
3123	3159	36	Line
3159	3182	23	Line Dark Grey
3182	3220	38	Line
3220	3225	5	Shale - Line
3225	3250	25	Anhydrite - Line
3250	3467	217	Line
3467	3468	1	Sand
3468	3484	16	Red Sand
3484	3490	6	Red Sand
3490	3498	8	Red Sand
3498	3500	2	Oil Sand - Scott
3500	3508	8	Oil Sand - Hard
3508	3516	8	Sand - Line - Hard
3516	3522	6	Line - Sand
3522	3525	3	Sand
3525	3529	4	Anhydrite
3529	3535	6	Line
3535			Total Depth

HISTORY OF OIL OR GAS WELL

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.



LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

UNITED STATES