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RECEIVED
DEC - 4 1939
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Poswell, New Mexico

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 028465
LEASE OR PERMIT TO PROSPECT Lease

30-015-03291

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Underwood & Sanders Address Artesia, New Mexico
Lessor or Tract Miller Field Loco Hills State New Mexico
Well No. 2 Sec. 4 T. 18S R. 29E Meridian N.M.P.M. County Eddy
Location 990 ft. (S.) of N. Line and 330 ft. (E.) of W. Line of 4 Elevation 3552
(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 _____
Date December 2, 1939 Title Superintendent

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

Commenced drilling July 8, 1939 Finished drilling September 14, 1939

OIL OR GAS SANDS OR ZONES

(Denote gas by G)
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

| Size casing | Weight per foot | Threads per inch | Make | Amount | Kind of shoe | Cut and pulled from | Perforated | | Purpose |
|----------------|-----------------|------------------|-------------|-------------|--------------------|---------------------|------------|----|--------------------------|
| | | | | | | | From | To | |
| <u>8-1/4</u> | <u>28</u> | <u>8</u> | <u>Used</u> | <u>205</u> | <u>None</u> | | | | <u>Surface Casing</u> |
| <u>7" O.D.</u> | <u>24</u> | <u>10</u> | <u>Used</u> | <u>2405</u> | <u>Halliburton</u> | <u>1800 ft.</u> | | | <u>Production Casing</u> |

MUDDING AND CEMENTING RECORD

| Size casing | Where set | Number sacks of cement | Method used | Mud gravity | Amount of mud used |
|----------------|-------------|------------------------|--------------------|--------------|--------------------|
| <u>8-1/4</u> | <u>306</u> | <u>50</u> | <u>Halliburton</u> | | |
| <u>7" O.D.</u> | <u>2405</u> | <u>100</u> | <u>Halliburton</u> | <u>Heavy</u> | <u>200 Sack</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>No Shot</u> | | | | | | |

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from 0 feet to 2405 feet, and from _____ feet to _____ feet

DATES

Plugged Sept. 14, 1939 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

Marlow, Driller Berentz, Driller
Wiggins, Driller _____, Driller

FORMATION RECORD

| FROM | TO | TOTAL FEET | FORMATION |
|------|------|------------|-----------------|
| 0 | 5 | 5 | Soil |
| 5 | 30 | 25 | Red Sand |
| 30 | 40 | 10 | Caliche |
| 40 | 60 | 20 | Anhydrite |
| 60 | 115 | 55 | Red Rock & Gyp |
| 115 | 125 | 10 | Anhydrite |
| 125 | 140 | 15 | Red Sand H.F.W. |
| 140 | 220 | 80 | Gyp |
| 220 | 295 | 75 | Red Rock |
| 295 | 363 | 68 | Red Rock & Gyp |
| 363 | 765 | 398 | Salt |
| 765 | 820 | 55 | Anhydrite |
| 820 | 825 | 5 | Red Rock |
| 825 | 1050 | 225 | Anhydrite |
| 1050 | 1060 | 10 | Red Rock |
| 1060 | 1530 | 470 | Anhydrite |
| 1530 | 1585 | -35 | Red Rock |
| 1585 | 1685 | 120 | Anhydrite |
| 1685 | 1690 | 5 | Red Rock |
| 1690 | 1975 | 285 | Anhydrite |
| 1975 | 2002 | 27 | Red Sand |
| 2002 | 2130 | 128 | Anhydrite |
| 2130 | 2150 | 20 | Lime (white) |
| 2150 | 2170 | 20 | Red Sandy Shale |
| 2170 | 2225 | 55 | Anhydrite |
| 2225 | 2240 | 15 | Lime (white) |

FOLD MARK

17000-110-02

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, 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 balling.

This hole was drilled to 2405 where J. D. casing was set and cemented with 100 sack. While drilling cement plug an air pocket was found in the cement which had pressure to blow the tools up in the casing and stick them. While jarring on tools the fishing socket broke leaving the bowl on the fish. This was milled off and another hold taken but tools would not move.

A whip stock was set and hole drilled out of casing. This was unsuccessful and casing knocked off and pulled at top of cement, 1800 feet. Sidetracking this casing was also unsuccessful and hole was plugged by cementing bottom with ten sack cement then mud to 900 feet, cement to 850 feet then mud to 370 feet where 20 sack cement was dumped and hole tested for water. The hole was dry so it was filled with mud to surface and marker set and location cleaned up.

HISTORY OF OIL OR GAS WELL

| FORMATION | TO | TOTAL FEET | FROM |
|----------------------------------|------|------------|------|
| Red Rock & Argillite | 2280 | 40 | 2240 |
| Red Sand | 2300 | 20 | 2260 |
| Argillite | 2310 | 10 | 2300 |
| Argillite | 2345 | 35 | 2310 |
| Lime - broken | 2370 | 25 | 2345 |
| Argillite | 2405 | 35 | 2370 |
| Lime - top of lime 2370 | 2405 | 35 | 2370 |
| J. D. Hole plugged at this depth | 2405 | - | 2405 |

FORMATION RECORD - Continued