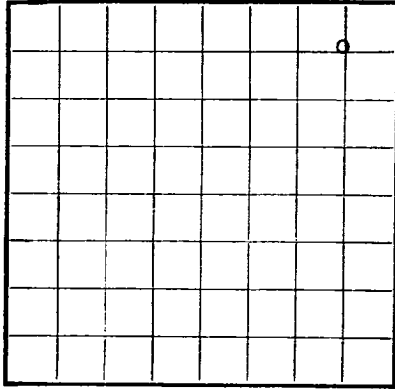


U. S. LAND OFFICE Las Cruces  
SERIAL NUMBER 046333  
LEASE OR PERMIT TO PROSPECT Per.



LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Humble Oil & Refg. Co. Address Houston, Texas  
Lessor or Tract Faye N. Saunders Permit Field Lea County State New Mexico  
Well No. 1 Sec. 4 T. 22S R. 34E Meridian NMPM County Lea County  
Location 660 ft. S. of N. Line and 660 ft. W. of E. Line of Sec. 4 Elevation 3641  
(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 May 16, 1935 Title District Geologist

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

Commenced drilling January 6, 1935 Finished drilling April 8, 1935

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 760 to 770 No. 3, from 4105 to 4140  
No. 2, from 923 to 991 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— |         |
| 20"         |                 |                  |      | 69' 8" |              | 0                   |            |     |         |
| 15 1/2"     |                 |                  |      | 69'    |              | 655'                |            |     |         |
| 12 1/2"     |                 |                  |      | 1076'  |              | 1076'               |            |     |         |
| 10-3/4"     |                 |                  |      | 1832'  |              | 958'                |            |     |         |
| 8-5/8"      | 32#             | 8                |      | 3805'  |              | 3805'               |            |     |         |

MUDDING AND CEMENTING RECORD

| Size casing | Where set | Number sacks of cement | Method used | Mud gravity | Amount of mud used |
|-------------|-----------|------------------------|-------------|-------------|--------------------|
| 10-3/4"     | 1832'     | 130 Sacks              |             |             |                    |

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 |
|------|------------|----------------|----------|------|------------|-------------------|
|      |            |                |          |      |            |                   |

TOOLS USED

Rotary tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from 0 feet to 4140' 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

Crosby Drilling Co., Driller \_\_\_\_\_, Driller  
\_\_\_\_\_, Driller \_\_\_\_\_, Driller

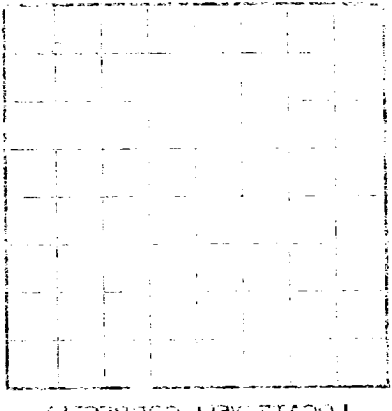
FORMATION RECORD

| FROM— | TO—  | TOTAL FEET | FORMATION                        |
|-------|------|------------|----------------------------------|
| 0     | 50   | 50         | Sharp quartz sand                |
| 55    | 100  | 45         | Red sand                         |
| 100   | 115  | 15         | Gray sand                        |
| 115   | 125  | 10         | Red and gray sandy shale         |
| 125   | 270  | 145        | Red shale                        |
| 270   | 280  | 10         | Red and gray shale               |
| 280   | 390  | 110        | Red shale                        |
| 390   | 398  | 8          | Red and gray shale               |
| 398   | 600  | 202        | Red shale                        |
| 600   | 610  | 10         | Red and gray shale               |
| 610   | 660  | 50         | Red shale                        |
| 660   | 670  | 10         | Gray sand                        |
| 670   | 680  | 10         | Gray sand and red beds           |
| 680   | 690  | 10         | Gray sand                        |
| 690   | 700  | 10         | Coarse gray sand (conglomerates) |
| 700   | 710  | 10         | Gray sand                        |
| 710   | 715  | 5          | Red rock                         |
| 715   | 775  | 60         | Red sandy shale                  |
| 775   | 780  | 5          | Red rock                         |
| 780   | 855  | 75         | Red shale                        |
| 855   | 885  | 30         | Shale & Red beds                 |
| 885   | 902  | 17         | Red rock                         |
| 902   | 940  | 38         | Red sand                         |
| 940   | 975  | 35         | Sandy brown limestone            |
| 975   | 1005 | 30         | Red sand                         |
| 1005  | 1010 | 5          | Sandy Limestone, brown           |

FOLD MARK

# LOG OF OIL OR GAS WELL

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



Plugging - Started April 8, 1935.

Plugged back from 4170' (total depth) to 4125' with rock. Drove 400 # lead wool and cemented with 8 sacks Incon cement. Filled hole with rock from 4125' to 4100'. Drove steel mandril lead plug at 4100' and cemented with 8 sacks Incon cement. Water completely shut off. Puled 3805' (all) 8-5/8" casing with mud. Filled hole from 4100' to 3780' with mud. Filled hole with fork 3780' to 3760' (base salt) and cemented with 16 sacks Incon cement up to 3726'. Filled hole with mud from 3726' to 1750' (top salt 1770'). Shot off 10-3/4" casing at 965'. Puled 958' 10-3/4" casing. Filled hole with mud from 971.6' to 955'. Cement plug at 955'. Shot 15-1/2" casing at 630'. Puled 639' of 15-1/2" casing. Filled hole. ALL-20" casing (6918u) left in hole. Filled hole with mud from 955' to surface and placed plug of 15 sacks cement. Regulation market set (one joint 6" line pipe set in surface cement plug). Finished plugging May 9, 1935.

## HISTORY OF OIL OR GAS WELL

| FORMATION                       | TOTAL FEET | TO-  | FROM- | REMARKS |
|---------------------------------|------------|------|-------|---------|
| Red sandy shale                 | 25         | 1035 | 1035  |         |
| Red rock and red mud            | 70         | 1105 | 1035  |         |
| Red sand                        | 35         | 1130 | 1105  |         |
| Red rock                        | 130        | 1260 | 1130  |         |
| Red shale and lime shell        | 15         | 1275 | 1260  |         |
| Gray lime and red rock          | 10         | 1285 | 1275  |         |
| Red sand                        | 30         | 1315 | 1285  |         |
| Red rock                        | 65         | 1380 | 1315  |         |
| Red shale and red beds          | 350        | 1730 | 1380  |         |
| White gyp                       | 5          | 1735 | 1730  |         |
| Anhydrite                       | 20         | 1755 | 1735  |         |
| Gyp and salt                    | 30         | 1785 | 1755  |         |
| Anhydrite                       | 30         | 1815 | 1785  |         |
| Gray and brown shale, anhydrite | 75         | 1890 | 1815  |         |
| Red shale & salt                | 70         | 1960 | 1890  |         |
| Red shale & salt                | 10         | 2070 | 1960  |         |
| Anhydrite                       | 10         | 2080 | 2070  |         |
| Salt, potash, some gray lime    | 630        | 2710 | 2080  |         |
| Anhydrite                       | 15         | 2725 | 2710  |         |
| Salt & potash                   | 25         | 2750 | 2725  |         |
| Anhydrite                       | 65         | 2815 | 2750  |         |
| Salt & potash                   | 315        | 3130 | 2815  |         |
| Anhydrite                       | 15         | 3145 | 3130  |         |
| Salt, potash, some gray lime    | 630        | 3775 | 3145  |         |
| Anhydrite                       | 10         | 3785 | 3775  |         |
| Salt                            | 205        | 3990 | 3785  |         |
| Anhydrite                       | 30         | 4020 | 3990  |         |
| Brown lime                      | 100        | 4120 | 4020  |         |
| Gray lime                       | 130        | 4250 | 4120  |         |
| Brown lime                      | 62         | 4312 | 4250  |         |
| Gray lime                       | 123        | 4435 | 4312  |         |
| Sand                            | 35         | 4470 | 4435  |         |

FORMATION RECORD—Continued

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