

U. S. LAND OFFICE Las Cruces  
SERIAL NUMBER 028793-A  
LEASE OR PERMIT TO PROSPECT Burch

**COPY**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-015-04195

# LOG OF OIL OR GAS WELL

## LOCATE WELL CORRECTLY

Company Grayburg Oil Co. of N. M. Address Artesia, New Mexico  
Lessor or Tract \_\_\_\_\_ Field Artesia State New Mexico  
Well No. 3 Sec. 19 T. 17 R. 30 Meridian NMPM County Eddy  
Location 1980 ft. N of N Line and 660 ft. E of W Line of Sec. 19 Elevation 3628  
(Describe area better than possible)

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 14, 1932 Title \_\_\_\_\_

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

Commenced drilling February 16, 1932 Finished drilling May 2, 1932

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

|                  |                    |                  |             |
|------------------|--------------------|------------------|-------------|
| No. 1, from 1470 | to 1475 Gas        | No. 4, from 3080 | to 3088 Oil |
| No. 2, from 2500 | to 2525 O. & G, S. | No. 5, from 3093 | to 3100 Oil |
| No. 3, from 2785 | to 2790 Gas        | No. 6, from      | to          |
| No. 3, from 2955 | to 2958 Oil        |                  |             |

## IMPORTANT WATER SANDS

No. 1, from 270 to 280      No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_      No. 4, from \_\_\_\_\_ to \_\_\_\_\_

## CASING RECORD

[illegible]

## MUDDING AND CEMENTING RECORD

| Size casing | Where set | Number sacks of cement | Method used | Mud gravity             | Amount of mud used |
|-------------|-----------|------------------------|-------------|-------------------------|--------------------|
| 10"         | 372' 7"   |                        | Dumped      | Heavy mud bottom to top |                    |
| 6-5/8"      | 2783'     |                        | "           | " "                     | " "                |
|             |           |                        |             |                         |                    |
|             |           |                        |             |                         |                    |
|             |           |                        |             |                         |                    |
|             |           |                        |             |                         |                    |

## PLUGS AND ADAPTERS

Heaving plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth set \_\_\_\_\_

|                                       |                          |
|---------------------------------------|--------------------------|
| <b><u>Adapters—Material</u></b> _____ | <b><u>Size</u></b> _____ |
|---------------------------------------|--------------------------|

## 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 top feet to 3100 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.

## DATES

|                  |       |     |
|------------------|-------|-----|
| Put to producing | May 7 | 132 |
|------------------|-------|-----|

The production for the first 24 hours was 520 barrels of fluid of which 100 % was oil; %

emulsion: % water and % sediment. Gravity, °Bé. 36.5 (60 degrees)

If gas well cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

|                                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
|---------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| Rock pressure, lbs. per sq. in. | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 | 100 |
|---------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|

## EMPLOYEES

J. L. Briscoe, Driller W. F. Johnson, Driller

W. H. Berry, Driller

## FORMATION RECORD

| FROM- | TO-  | TOTAL FEET | FORMATION                 |
|-------|------|------------|---------------------------|
| 00    | 20   | 20         | Gyp                       |
| 20    | 40   | 20         | Red Gyp                   |
| 40    | 70   | 30         | Red bed and sand          |
| 70    | 100  | 30         | Red sand and gyp shells   |
| 100   | 110  | 30         | Red beds and gyp          |
| 110   | 160  | 50         | Red bed and sand          |
| 160   | 200  | 40         | Red sand                  |
| 200   | 250  | 50         | Red bed                   |
| 250   | 255  | 5          | Gyp shells                |
| 255   | 280  | 25         | Gravel and gyp            |
| 280   | 290  | 10         | Gyp                       |
| 290   | 305  | 15         | Red bed                   |
| 305   | 320  | 15         | Gyp                       |
| 320   | 360  | 40         | Red beds and gyp          |
| 360   | 375  | 15         | Gyp                       |
| 375   | 410  | 35         | Red beds                  |
| 410   | 425  | 15         | Gyp                       |
| 425   | 855  | 430        | Salt                      |
| 855   | 865  | 10         | Salt and Polyhalite       |
| 865   | 875  | 10         | Polyhalite                |
| 875   | 1060 | 185        | Anhydrite                 |
| 1060  | 1090 | 30         | Anhydrite and brown shale |
| 1090  | 1100 | 10         | Brown shale               |
| 1100  | 1125 | 25         | Gummy gyp                 |
| FROM- | TO-  | TOTAL FEET | FORMATION                 |

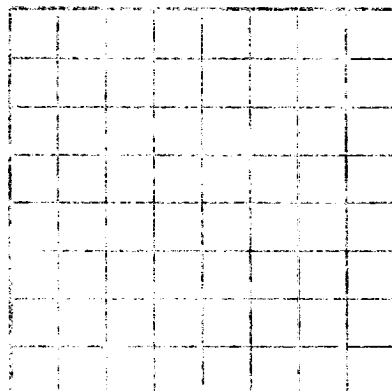
LOG OF OIL OR GAS WELL

GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR

UNITED STATES

30-012-0412



Company \_\_\_\_\_  
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 as shown in  
Command drilling \_\_\_\_\_

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

No. 1 from \_\_\_\_\_ to \_\_\_\_\_  
No. 2 from \_\_\_\_\_ to \_\_\_\_\_  
No. 3 from \_\_\_\_\_ to \_\_\_\_\_

IMPORTANT WATER SANDS

No. 1 from \_\_\_\_\_ to \_\_\_\_\_  
No. 2 from \_\_\_\_\_ to \_\_\_\_\_

CASING RECORD

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

| FROM- | TO-  | TOTAL FEET | FORMATION                        |
|-------|------|------------|----------------------------------|
| 1125  | 1170 | 25         | Anhydrite & brown shale          |
| 1170  | 1173 | 3          | Brown shale                      |
| 1173  | 1185 | 12         | Anhydrite                        |
| 1185  | 1195 | 10         | Anhydrite and brown shale, sandy |
| 1195  | 1210 | 15         | Anhydrite & gray shale, sandy    |
| 1210  | 1215 | 5          | Anhydrite                        |
| 1215  | 1245 | 30         | Anhydrite and brown shale        |
| 1245  | 1290 | 45         | Anhydrite                        |
| 1290  | 1305 | 15         | Anhydrite                        |
| 1305  | 1310 | 5          | Red bed                          |
| 1310  | 1390 | 80         | Anhydrite                        |
| 1390  | 1400 | 10         | Showing Oil Sandy                |
| 1400  | 1420 | 20         | Anhydrite                        |
| 1420  | 1470 | 50         | Anhydrite                        |
| 1470  | 1475 | 5          | Gas                              |
| 1475  | 1485 | 10         | Hard Anhydrite                   |
| 1485  | 1670 | 165        | Anhydrite - Gas at 1540-15       |
| 1670  | 1680 | 10         | Anhydrite and red shale          |
| 1680  | 1700 | 20         | Anhydrite                        |
| 1700  | 1710 | 10         | Red shale                        |
| 1710  | 1730 | 20         | Brown shale                      |
| 1730  | 1810 | 80         | Anhydrite                        |
| 1810  | 1820 | 10         | Brown shale                      |
| 1820  | 1850 | 30         | Anhydrite & Brown shale, sandy   |
| 1850  | 1910 | 60         | Anhydrite                        |
| 1910  | 1915 | 5          | Anhydrite                        |
| 1915  | 1975 | 60         | Red sand                         |
| 1975  | 2095 | 120        | Anhydrite and Brown shale        |
| 2095  | 2110 | 15         | Lime, hard                       |
| 2110  | 2175 | 65         | Anhydrite and Brown shale        |
| 2175  | 2180 | 5          | EMPLOYERS, Extra Hard            |
| 2180  | 2270 | 90         | Anhydrite and Brown shale        |
| 2270  | 2275 | 5          | Gray and Brown Sandy Lime        |
| 2275  | 2300 | 25         | Brown Lime (Gravel)              |
| 2300  | 2305 | 5          | Gray, White and Brown Lime       |
| 2305  | 2310 | 5          | Gray Sandy Lime                  |
| 2310  | 2500 | 190        | Gray, White and Brown Lime       |
| 2500  | 2520 | 20         | Gray Lime                        |
| 2520  | 2525 | 5          | Brown Sandy Lime - OIL SHOW      |
| 2525  | 2760 | 235        | Lime                             |
| 2760  | 2778 | 18         | Blue shale and Lime              |
| 2778  | 3228 | 450        | Gray, White and Brown Lime       |