

U. S. LAND OFFICE Ute~~Section No.~~ Tract No. 14LEASE OR PERMIT TO PROSPECT  
Contract 14-20-604-86UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Gulf Oil Corporation Address P. O. Box 2097, Denver, Colorado  
Lessor or Tract Southwest Barker Dome Field SW Barker State New Mexico  
Well No. 2 Sec. 20 T. 31N R. 15W Meridian County San Juan  
Location 1980 ft. N. of 3 Line and 1980 ft. E. of E Line of Section Elevation 5724'  
(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 MS MitchellDate October 26, 1956Title Zone Drilling Engineer

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

Commenced drilling 8-19, 1956 Finished drilling 9-1, 1956OIL OR GAS SANDS OR ZONES  
(Denote gas by G)

No. 1, from None to \_\_\_\_\_ No. 4, from \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 5, from \_\_\_\_\_  
No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_

## IMPORTANT WATER SANDS

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ No. 3, from \_\_\_\_\_  
No. 2, from 0 to 700 \* No. 4, from \_\_\_\_\_

\*Possible occasional water bearing sandstone lenses.

## CASING RECORD

| Size casing | Weight per foot | Threads per inch | Make | Amount | Kind of shoe | Cut and pulled from | Perforated |      | Purpose    |
|-------------|-----------------|------------------|------|--------|--------------|---------------------|------------|------|------------|
|             |                 |                  |      |        |              |                     | From—      | To—  |            |
| 8-5/8       | 24              | 8 RT             | SS   | 310'   |              |                     |            |      | Surface    |
| 4-1/2       | 9.5             | 8 RT             | SS   | 1482'  | Howco        |                     | 1895       | 1899 | Production |
|             |                 |                  |      |        |              |                     | 1926       | 1944 | Production |
|             |                 |                  |      |        |              |                     | 1911       | 1926 |            |
|             |                 |                  |      |        |              |                     | 1899       | 1911 |            |

## MUDDING AND CEMENTING RECORD

| Size casing | Where set | Number sacks of cement | Method used | Mud gravity | Amount of mud used |
|-------------|-----------|------------------------|-------------|-------------|--------------------|
| 8-5/8       | 318'      | 250                    | Howco       |             |                    |
|             |           |                        |             |             |                    |
|             |           |                        |             |             |                    |
|             |           |                        |             |             |                    |

## PLUGS AND ADAPTERS

Heaving plug—Material None Length \_\_\_\_\_ Depth set \_\_\_\_\_

Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

## SHOOTING RECORD

| Size | Shell used | Explosive used | Quantity | Date | Depth shot | Depth cleaned out |
|------|------------|----------------|----------|------|------------|-------------------|
| None |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |

## TOOLS USED

Rotary tools were used from 0 feet to 2000 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feetCable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from to 1965' feet to \_\_\_\_\_ feet

## DATES (See Below)

\_\_\_\_\_, 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

Smith Drilling Company, Driller \_\_\_\_\_, Driller

\_\_\_\_\_, Driller \_\_\_\_\_, Driller

## FORMATION RECORD

| FROM—                                                                                                                                                                                                                                                                                                                                               | TO—      | TOTAL FEET | FORMATION                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|---------------------------------|
| 0                                                                                                                                                                                                                                                                                                                                                   | 675'     | 675'       | Point Lookout - Shale, Silt.    |
| 675'                                                                                                                                                                                                                                                                                                                                                | 1894'    | 1219'      | Mancos - Shale and silt.        |
| 1894'                                                                                                                                                                                                                                                                                                                                               | TD 2000' | 106'       | Tocito - Shale, some sandstone. |
| Core No. 1, 1875' to 1889' - recovered 14' shale.                                                                                                                                                                                                                                                                                                   |          |            |                                 |
| Core No. 2, 1889' to 1894' - recovered 5-1/2' shale.                                                                                                                                                                                                                                                                                                |          |            |                                 |
| Core No. 3, 1894' to 1911' - recovered 16-1/2' shale.                                                                                                                                                                                                                                                                                               |          |            |                                 |
| Core No. 4, 1911' to 1938' - recovered 27' shale, interbedded with sandstone.                                                                                                                                                                                                                                                                       |          |            |                                 |
| Core No. 5, 1938' to 1962' - recovered 6' sand, 18' shale.                                                                                                                                                                                                                                                                                          |          |            |                                 |
| No Drill Stem Tests Run.                                                                                                                                                                                                                                                                                                                            |          |            |                                 |
| Testing Results -                                                                                                                                                                                                                                                                                                                                   |          |            |                                 |
| Acidized perfs. 1895' to 1911' with 2000 gallons MCA. Swabbed 1.5 bbls. mud and water per hour. Sand-oil fractured with 15,000 gallons diesel oil, 30,000 lbs. sand. On October 22, 1956, pumped 3/4 bbl. oil in 6 hours, pumped off. Have approximately 90 bbls. load oil yet to recover. Well currently shut in pending decision of further work. |          |            |                                 |

(OVER)

FORMATION RECORD - Continued

PLEASE OR PERMIT TO PROCEED  
SPECIAL MEMBER  
U. S. LAND OFFICE

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

[illegible]

3. **Feedback** – The feedback loop is the process by which the system receives information about its performance and uses it to adjust its behavior. This is typically done through a feedback controller, which compares the system's output to a desired setpoint and generates a control signal to adjust the system's input.

[illegible]

OIL OR GAS SANDS OR ZONES

(D)  $\frac{1}{2}$  and  $\frac{1}{3}$

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IMPROVED WATER SAVING

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**SECRET**

[illegible]

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of drilling, 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 detached, 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 running or pulling.

## HISTORY OF OIL OR GAS WELL

U. S. GOVERNMENT PRINTING OFFICE

[illegible]

**FORMATION RECORD—Continued**