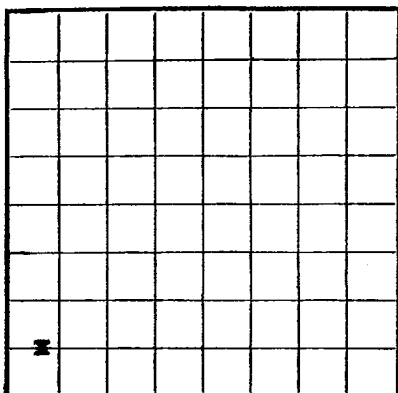




LOCATE WELL CORRECTLY

RECEIVED  
MAR 21 1958  
U. S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

MAR 24 1958

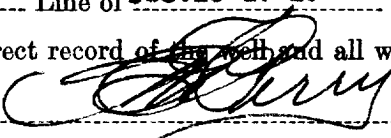
Las Cruces

U. S. LAND OFFICE

SERIAL NUMBER LC 058722

LEASE OR PERMIT TO PROSPECT

## LOG OF OIL OR GAS WELL

Company **BARNEY COCKBURN** Address **Box 105, Artesia, New Mexico**  
Lessor or Tract **Dorothy Sanford (Featherstone)** Field **Square Lake** State **New Mexico**  
Well No. **4** Sec. **10** T. **17** R. **39E** Meridian **NMPM** County **Eddy**  
Location **660** ft. [N.] of **8** Line and **660** ft. [E.] of **W** Line of **Sec. 10-17-29** Elevation **3569**  
(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  Title **Agent**  
Date **March 20, 1958**

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

Commenced drilling **October 2,** 19**57** Finished drilling **November 14,** 19**57**

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **2440** to **2456'** 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— |         |
| <b>8 5/8"</b>              | <b>24</b>       |                  | <b>New</b> | <b>415'</b>  | <b>Baker</b> |                     |            |     |         |
| <b>5 1/2"</b>              | <b>14</b>       |                  | <b>New</b> | <b>2387'</b> | <b>Baker</b> |                     |            |     |         |
| HISTORY OF OIL OR GAS WELL |                 |                  |            |              |              |                     |            |     |         |

## MUDDING AND CEMENTING RECORD

| Size casing   | Where set    | Number sacks of cement | Method used   | Mud gravity | Amount of mud used |
|---------------|--------------|------------------------|---------------|-------------|--------------------|
| <b>8 5/8"</b> | <b>415'</b>  | <b>50</b>              | <b>Denton</b> |             |                    |
| <b>5 1/2"</b> | <b>2387'</b> | <b>100</b>             | <b>Denton</b> |             |                    |

## 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 |
|-------------------------------------------------------------------|------------|----------------|----------|------|------------|-------------------|
| <b>Sand Fract Using 15,000 gallons Crude Oil and 15,000 Sand.</b> |            |                |          |      |            |                   |

## TOOLS USED

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

**0** **DATE 2457**\_\_\_\_\_, 19\_\_\_\_ Put to producing \_\_\_\_\_, 19**57**

The production for the first 24 hours was \_\_\_\_\_ barrels of fluid of which \_\_\_\_\_% was oil; \_\_\_\_\_%  
emulsion; \_\_\_\_\_% water; and \_\_\_\_\_% sediment. **219** Gravity, °Bé. **100**

If gas well, cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas **38**

Rock pressure, lbs. per sq. in. \_\_\_\_\_

## EMPLOYEES

\_\_\_\_\_, Driller \_\_\_\_\_, Driller  
**G. P. Miller**, Driller \_\_\_\_\_, Driller  
**V. J. Oluney**

## FORMATION RECORD

| FROM—       | TO—         | TOTAL FEET | FORMATION                   |
|-------------|-------------|------------|-----------------------------|
| <b>0</b>    | <b>95</b>   | <b>95</b>  | <b>Red Bed and Boulders</b> |
| <b>95</b>   | <b>200</b>  | <b>105</b> | <b>Gyp and Anhy</b>         |
| <b>200</b>  | <b>325</b>  | <b>125</b> | <b>Red Bed</b>              |
| <b>325</b>  | <b>330</b>  | <b>5</b>   | <b>Anhy</b>                 |
| <b>330</b>  | <b>335</b>  | <b>5</b>   | <b>Gyp</b>                  |
| <b>335</b>  | <b>725</b>  | <b>390</b> | <b>Salt</b>                 |
| <b>725</b>  | <b>925</b>  | <b>200</b> | <b>Anhy</b>                 |
| <b>925</b>  | <b>965</b>  | <b>40</b>  | <b>Red Sand-Shale</b>       |
| <b>965</b>  | <b>1135</b> | <b>170</b> | <b>Red Bed-Anhy</b>         |
| <b>1135</b> | <b>1770</b> | <b>635</b> | <b>Anhy</b>                 |
| <b>1770</b> | <b>1785</b> | <b>15</b>  | <b>Red Sand</b>             |
| <b>1785</b> | <b>2175</b> | <b>390</b> | <b>Anhy</b>                 |
| <b>2175</b> | <b>2440</b> | <b>265</b> | <b>Lime</b>                 |
| <b>2440</b> | <b>2457</b> | <b>17</b>  | <b>Oil Sand</b>             |
|             | <b>TD</b>   |            |                             |

EIGHT—

NO—

JOLY REEL

(OVER)

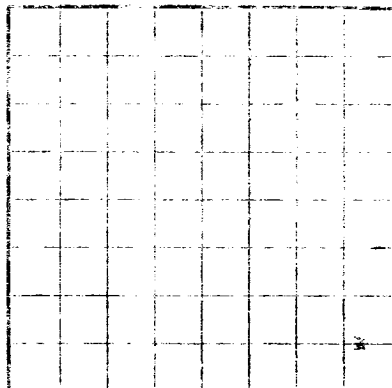
FORMATION

16-43094-4

FORMATION RECORD—CONTINUED

LOG OF OIL OR GAS WELL

GEOLOGICAL SURVEY  
DEPARTMENT OF THE INTERIOR  
UNITED STATES



LOCATE WELL CORRECTLY

Company \_\_\_\_\_  
Lessor or Trustee \_\_\_\_\_  
Well No. \_\_\_\_\_  
Location \_\_\_\_\_  
The information given herein is a complete and correct record of the well and all work done thereon  
as far as can be determined from all available records.  
Signed \_\_\_\_\_  
Date \_\_\_\_\_

The summary on this page is for the condition of the well at above date.  
Commenced drilling \_\_\_\_\_  
Completed drilling \_\_\_\_\_

OIL OR GAS SANDS OR ZONES

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

IMPORTANT WATER SANDS

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

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 - |       | FORMATION             |  |
|--------|------|------|-------|-----------------------|--|
| 0      | 25   | 25   | 100   | Red bed and sandstone |  |
| 25     | 200  | 200  | 300   | Red bed and sandstone |  |
| 200    | 300  | 300  | 400   | Red bed and sandstone |  |
| 300    | 400  | 400  | 500   | Red bed and sandstone |  |
| 400    | 500  | 500  | 600   | Red bed and sandstone |  |
| 500    | 600  | 600  | 700   | Red bed and sandstone |  |
| 600    | 700  | 700  | 800   | Red bed and sandstone |  |
| 700    | 800  | 800  | 900   | Red bed and sandstone |  |
| 800    | 900  | 900  | 1000  | Red bed and sandstone |  |
| 900    | 1000 | 1000 | 1100  | Red bed and sandstone |  |
| 1000   | 1100 | 1100 | 1200  | Red bed and sandstone |  |
| 1100   | 1200 | 1200 | 1300  | Red bed and sandstone |  |
| 1200   | 1300 | 1300 | 1400  | Red bed and sandstone |  |
| 1300   | 1400 | 1400 | 1500  | Red bed and sandstone |  |
| 1400   | 1500 | 1500 | 1600  | Red bed and sandstone |  |
| 1500   | 1600 | 1600 | 1700  | Red bed and sandstone |  |
| 1600   | 1700 | 1700 | 1800  | Red bed and sandstone |  |
| 1700   | 1800 | 1800 | 1900  | Red bed and sandstone |  |
| 1800   | 1900 | 1900 | 2000  | Red bed and sandstone |  |
| 1900   | 2000 | 2000 | 2100  | Red bed and sandstone |  |
| 2000   | 2100 | 2100 | 2200  | Red bed and sandstone |  |
| 2100   | 2200 | 2200 | 2300  | Red bed and sandstone |  |
| 2200   | 2300 | 2300 | 2400  | Red bed and sandstone |  |
| 2300   | 2400 | 2400 | 2500  | Red bed and sandstone |  |
| 2400   | 2500 | 2500 | 2600  | Red bed and sandstone |  |
| 2500   | 2600 | 2600 | 2700  | Red bed and sandstone |  |
| 2600   | 2700 | 2700 | 2800  | Red bed and sandstone |  |
| 2700   | 2800 | 2800 | 2900  | Red bed and sandstone |  |
| 2800   | 2900 | 2900 | 3000  | Red bed and sandstone |  |
| 2900   | 3000 | 3000 | 3100  | Red bed and sandstone |  |
| 3000   | 3100 | 3100 | 3200  | Red bed and sandstone |  |
| 3100   | 3200 | 3200 | 3300  | Red bed and sandstone |  |
| 3200   | 3300 | 3300 | 3400  | Red bed and sandstone |  |
| 3300   | 3400 | 3400 | 3500  | Red bed and sandstone |  |
| 3400   | 3500 | 3500 | 3600  | Red bed and sandstone |  |
| 3500   | 3600 | 3600 | 3700  | Red bed and sandstone |  |
| 3600   | 3700 | 3700 | 3800  | Red bed and sandstone |  |
| 3700   | 3800 | 3800 | 3900  | Red bed and sandstone |  |
| 3800   | 3900 | 3900 | 4000  | Red bed and sandstone |  |
| 3900   | 4000 | 4000 | 4100  | Red bed and sandstone |  |
| 4000   | 4100 | 4100 | 4200  | Red bed and sandstone |  |
| 4100   | 4200 | 4200 | 4300  | Red bed and sandstone |  |
| 4200   | 4300 | 4300 | 4400  | Red bed and sandstone |  |
| 4300   | 4400 | 4400 | 4500  | Red bed and sandstone |  |
| 4400   | 4500 | 4500 | 4600  | Red bed and sandstone |  |
| 4500   | 4600 | 4600 | 4700  | Red bed and sandstone |  |
| 4600   | 4700 | 4700 | 4800  | Red bed and sandstone |  |
| 4700   | 4800 | 4800 | 4900  | Red bed and sandstone |  |
| 4800   | 4900 | 4900 | 5000  | Red bed and sandstone |  |
| 4900   | 5000 | 5000 | 5100  | Red bed and sandstone |  |
| 5000   | 5100 | 5100 | 5200  | Red bed and sandstone |  |
| 5100   | 5200 | 5200 | 5300  | Red bed and sandstone |  |
| 5200   | 5300 | 5300 | 5400  | Red bed and sandstone |  |
| 5300   | 5400 | 5400 | 5500  | Red bed and sandstone |  |
| 5400   | 5500 | 5500 | 5600  | Red bed and sandstone |  |
| 5500   | 5600 | 5600 | 5700  | Red bed and sandstone |  |
| 5600   | 5700 | 5700 | 5800  | Red bed and sandstone |  |
| 5700   | 5800 | 5800 | 5900  | Red bed and sandstone |  |
| 5800   | 5900 | 5900 | 6000  | Red bed and sandstone |  |
| 5900   | 6000 | 6000 | 6100  | Red bed and sandstone |  |
| 6000   | 6100 | 6100 | 6200  | Red bed and sandstone |  |
| 6100   | 6200 | 6200 | 6300  | Red bed and sandstone |  |
| 6200   | 6300 | 6300 | 6400  | Red bed and sandstone |  |
| 6300   | 6400 | 6400 | 6500  | Red bed and sandstone |  |
| 6400   | 6500 | 6500 | 6600  | Red bed and sandstone |  |
| 6500   | 6600 | 6600 | 6700  | Red bed and sandstone |  |
| 6600   | 6700 | 6700 | 6800  | Red bed and sandstone |  |
| 6700   | 6800 | 6800 | 6900  | Red bed and sandstone |  |
| 6800   | 6900 | 6900 | 7000  | Red bed and sandstone |  |
| 6900   | 7000 | 7000 | 7100  | Red bed and sandstone |  |
| 7000   | 7100 | 7100 | 7200  | Red bed and sandstone |  |
| 7100   | 7200 | 7200 | 7300  | Red bed and sandstone |  |
| 7200   | 7300 | 7300 | 7400  | Red bed and sandstone |  |
| 7300   | 7400 | 7400 | 7500  | Red bed and sandstone |  |
| 7400   | 7500 | 7500 | 7600  | Red bed and sandstone |  |
| 7500   | 7600 | 7600 | 7700  | Red bed and sandstone |  |
| 7600   | 7700 | 7700 | 7800  | Red bed and sandstone |  |
| 7700   | 7800 | 7800 | 7900  | Red bed and sandstone |  |
| 7800   | 7900 | 7900 | 8000  | Red bed and sandstone |  |
| 7900   | 8000 | 8000 | 8100  | Red bed and sandstone |  |
| 8000   | 8100 | 8100 | 8200  | Red bed and sandstone |  |
| 8100   | 8200 | 8200 | 8300  | Red bed and sandstone |  |
| 8200   | 8300 | 8300 | 8400  | Red bed and sandstone |  |
| 8300   | 8400 | 8400 | 8500  | Red bed and sandstone |  |
| 8400   | 8500 | 8500 | 8600  | Red bed and sandstone |  |
| 8500   | 8600 | 8600 | 8700  | Red bed and sandstone |  |
| 8600   | 8700 | 8700 | 8800  | Red bed and sandstone |  |
| 8700   | 8800 | 8800 | 8900  | Red bed and sandstone |  |
| 8800   | 8900 | 8900 | 9000  | Red bed and sandstone |  |
| 8900   | 9000 | 9000 | 9100  | Red bed and sandstone |  |
| 9000   | 9100 | 9100 | 9200  | Red bed and sandstone |  |
| 9100   | 9200 | 9200 | 9300  | Red bed and sandstone |  |
| 9200   | 9300 | 9300 | 9400  | Red bed and sandstone |  |
| 9300   | 9400 | 9400 | 9500  | Red bed and sandstone |  |
| 9400   | 9500 | 9500 | 9600  | Red bed and sandstone |  |
| 9500   | 9600 | 9600 | 9700  | Red bed and sandstone |  |
| 9600   | 9700 | 9700 | 9800  | Red bed and sandstone |  |
| 9700   | 9800 | 9800 | 9900  | Red bed and sandstone |  |
| 9800   | 9900 | 9900 | 10000 | Red bed and sandstone |  |