

[illegible]

U. S. LAND OFFICE **Santa Fe**  
SERIAL NUMBER **101 014023**  
LEASE OR PERMIT TO PROSPECT

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

# LOG OF OIL OR GAS WELL

## LOCATE WELL CORRECTLY

Company Southern Union Gas Company Address 1001 Hurt Bldg., Dallas, Texas  
 Lessor or Tract Ernest Field Wildcat State New Mexico  
 Well No. 1 Sec. 27 T. 24N R. 7E Meridian N.M.P.M. County Rio Arriba  
 Location 530 ft. N. of N. Line and 530 ft. E. of N. Line of Section 27 Elevation 6025  
(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.

Date February 23, 1958 Signed L. L. Mumink Title Exploration Engineer

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

Commenced drilling 1-17- 19 58 Finished drilling 2-4- 19 59

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2277 to 2601 (0)      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

[illegible]

## MUDDING AND CEMENTING RECORD

| Size casing | Where set   | Number sacks of cement | Method used | Mud gravity | Amount of mud used |
|-------------|-------------|------------------------|-------------|-------------|--------------------|
| 9-5/8       | 209' 42" KB | 150                    | Ball joint  |             |                    |
| 5-1/2       | 57' 47" KB  | 150                    | Ball joint  |             |                    |
| 2"          | 56' 45"     |                        |             |             |                    |

## 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 |
|--------|------------|----------------|---------------------------|---------|---------------------------|-------------------|
| Parr.  | 5577-5601  | -              | Faced with 930 blks. oil, | 15,000' | semi and 80 rubber balls, |                   |
| IR 21. | 30 RPM     |                |                           |         |                           |                   |
|        |            |                |                           |         |                           |                   |
|        |            |                |                           |         |                           |                   |
|        |            |                |                           |         |                           |                   |

## TOOLS USED

Rotary tools were used from 0 feet to 2750 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

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

## DATES

-----~~2-22~~-----, 19-~~58~~ Put to producing -----, 19-----

The production for the first 24 hours was 22 barrels of fluid of which 100% was oil; -----% emulsion; -----% water; and -----% sediment. Gravity, °Bé. 1.09

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

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

## EMPLOYEES

Fleeger Drilling Co., Inc., Driller  
 J. M. Murphy, Driller  
 H. W. McDonald, Driller  
 Billy E. Goss, Driller

## FORMATION RECORD

| FROM— | TO—  | TOTAL FEET | FORMATION                   |
|-------|------|------------|-----------------------------|
| 0-    | 215  | 215        | Surface shale               |
| 215   | 851  | 636        | Shale                       |
| 851   | 1290 | 439        | Sand & shale                |
| 1290  | 2241 | 951        | Shale                       |
| 2241  | 2450 | 209        | Sand & shale                |
| 2450  | 2600 | 150        | Shale                       |
| 2600  | 3290 | 690        | Sand & shale                |
| 3290  | 3500 | 210        | Sand                        |
| 3500  | 4070 | 570        | Sand & shale                |
| 4070  | 4158 | 88         | Shale                       |
| 4158  | 4280 | 122        | Sand & shale                |
| 4280  | 4314 | 34         | Shale                       |
| 4314  | 4499 | 185        | Shale & sand                |
| 4499  | 4621 | 122        | Sand & shale - coal streaks |
| 4621  | 4711 | 90         | Sand & shale                |
| 4711  | 4761 | 50         | Shale                       |
| 4761  | 4952 | 191        | Shale & sand                |
| 4952  | 4981 | 29         | Shale                       |
| 4981  | 5135 | 154        | Sand & shale                |
| 5135  | 5178 | 43         | Shale                       |
| 5178  | 5310 | 132        | Sand & shale                |
| 5310  | 5377 | 67         | Shale                       |
| 5377  | 5430 | 53         | Sand & shale                |
| 5430  | 5454 | 24         | Gallup sand                 |
| 5454  | 5493 | 39         | Sand & shale                |
| 5493  | 5505 | 12         | Shale                       |
| 5505  | 5750 | 205        | Sand & Shale                |

TOPS: Pictured Cliffs 2049  
Cliff House 3600  
Point Lookout 4340  
Gallup 5370

10-43094-4

