

**Santa Fe**

U. S. LAND OFFICE 178641

SERIAL NUMBER

LEASE OR PERMIT TO PROSPECT

RECEIVED

DEC 1 1963 UNITED STATES  
DEPARTMENT OF THE INTERIOR  
U. S. GEOLOGICAL SURVEY  
FARMINGTON, NEW MEXICO GEOLOGICAL SURVEY

RECEIVED  
INTERIOR  
DEC 3 1959  
OIL CON. COM.  
DIST. 3

# LOG OF OIL OR GAS WELL

### LOCATE WELL CORRECTLY

Company Tennessee Gas Transmission Co. Address P. O. Box 1714, Durango, Colorado  
Lessor or Tract USA W. O. Berger Field Gallegos Gallup State New Mexico  
Well No. 4 Sec. 22 T. 26N R. 11W Meridian NMPM County San Juan  
Location 790 ft. NE of N Line and 1800 ft. E of W Line of Section 22 Elevation 6331' KB

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 R. N. Walker **R. N. Walker**

Date **November 23, 1959** Title **District Production Supt.**

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

Commenced drilling July 20, 1959 Finished drilling August 7, 1959

**Oil or Gas Sands or Zones**

(Denote gas by G)

(Denote gas by G)

|                   |              |                   |          |
|-------------------|--------------|-------------------|----------|
| No. 1, from 2065' | to 2438'     | No. 4, from _____ | to _____ |
| No. 2, from 6140' | to 6220' (G) | No. 5, from _____ | to _____ |
| No. 3, from _____ | to _____     | No. 6, from _____ | to _____ |

## IMPORTANT WATER SANDS

No. 1, from none tested 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"      | 288       | 175                    | two plug    |             |                    |
| 7"          | 6323      | 300                    | two plug    |             |                    |
|             |           |                        |             |             |                    |
|             |           |                        |             |             |                    |
|             |           |                        |             |             |                    |
|             |           |                        |             |             |                    |

## 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 0' feet to 6374' feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.

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

|                                |       |                                |         |
|--------------------------------|-------|--------------------------------|---------|
| Dakota Potential Aug. 31, 1959 | DATES | Gallup Potential Nov. 20, 1959 | FIP 400 |
|                                |       | Win 60 80 12 24 36             | FCP 720 |

Flv 4798 NCTFD 3/4" ch. 19 **CR 345** Put to producing **CON 89.5 MCF/bbl**, 19\_\_\_\_

ACF 5562 MCFPD      FCF 007

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

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

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

## FORMATION RECORD

| FROM— | TO—  | TOTAL FEET | FORMATION                        |
|-------|------|------------|----------------------------------|
| 0     | 12   | 12         | KB to Ground Level               |
| 12    | 650  | 638        | Sands, shales, and conglomerates |
| 650   | 1600 | 950        | Shale and siltstones             |
| 1600  | 4300 | 2700       | Shale, sandstones                |
| 4300  | 5150 | 850        | Black shale                      |
| 5150  | 5430 | 280        | Shaly sand                       |
| 5430  | 6140 | 710        | Shale and limey shale            |
| 6140  | 6374 | 234        | Sandstones and shale             |
|       |      |            | No DST or Coring                 |
|       |      |            | <u>Electric Log Tops</u>         |
|       |      |            | Farmington Sandstone 725         |
|       |      |            | Pictured Cliffs 1605             |
|       |      |            | Lewis Shale 1710                 |
|       |      |            | Mesa Verde 2500                  |
|       |      |            | Mancos Shale 4300                |
|       |      |            | Gallup Sand 5150                 |
|       |      |            | Greenhorn 6020                   |
|       |      |            | Dakota 6140                      |
|       |      |            | TD 6374                          |

Spud 12 1/4" hole July 20, 1959 and drilled to 295'. Run and cased 9 5/8" OD 32.3# H-40 csg at 288' with 175 cc. WOC 24 hr. Bridge-up and press tested csg at 600 psi for 30 min. D-14 8 3/4" hole from 295' to 287'. Run Ks-Induction and Gamma Ray Sonic Logs. Run and cased 7" OD 20# and 23# 4-55 csg at 633'. Cased w/300 cc Blankx. 1 1/2" tubing per cc. WOC 24 hrs. Press tested csg at 1500 psi for 30 min. Perforated with 750 gals H<sub>2</sub>O. Sand water-free Dakota with 55,000 gals, 103,000 lbs down csg. Rec. Load wtr and gas. Hydraulic Dakota with sand water. Trac. 48,600 gals and 40,000 lbs down csg. Rec. Load wtr and gas. WOC 5562 H<sub>2</sub>O 3 1/4" choke 3 hr. test. Set Outback Type "A" production per at 5225' and retrievable bridge plug at 5480'. Set cmt retainer at 5216'. Perforated with 4 shots and cased with 100 cc latex cmt. thru parts. WOC 12 hr and drill out cmt from 5225' to 5313'. Perforated with 4 shots per ft. Sand 5335', 5395', 5425', 5335', 5368', 5329', 5350', with 4 shots per ft. Sand all free drilling with 42,000 gals and 55,000 lbs. Washed sand and ran parallel the string. Dakota csg and then production per and landed at 6176'. Casing the set at 5219'. Run. Load with from September 12, 1959, to November 19, 1959. Casing set at 120', OGR 09.5 H<sub>2</sub>O/psi.