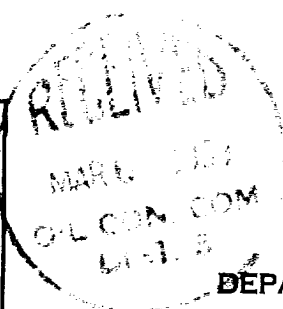
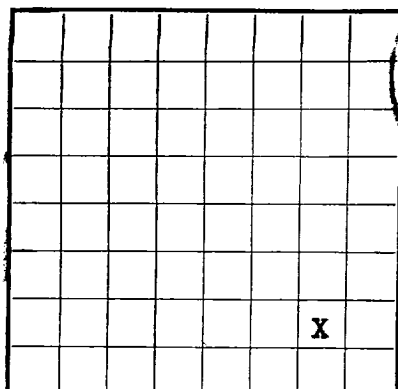


U. S. LAND OFFICE New Mexico  
SERIAL NUMBER 02874-A  
LEASE OR PERMIT TO PROSPECT \_\_\_\_\_



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

# LOG OF OIL OR GAS WELL

## LOCATE WELL CORRECTLY

Company El Paso Natural Gas Company Address Box 997, Farmington, New Mexico  
Lessor or Tract Huerfano Unit Field Wildcat State New Mexico  
Well No. 104 (GD) Sec. 17 T. 26N R. 10W Meridian N.M.P.M. County San Juan  
Location 990 ft. [N.] of S Line and 990 ft. [E.] of E Line of Sec. 17 Elevation 6544'  
Box W. Drill

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.

So far as can be determined from an available records. ORIGINAL SIGNED J.J. TILLERSON  
Signed \_\_\_\_\_  
Date **March 3, 1959** Title **Petroleum Engineer**

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

Commenced drilling 10-27-58, IX Finished drilling 11-25- 19 58

## OIL OR GAS SANDS OR ZONES

(Denote gas by  $G$ )

|                  |             |                  |             |
|------------------|-------------|------------------|-------------|
| No. 1, from 1998 | to 2068 (G) | No. 4, from 5521 | to 6032 (G) |
| No. 2, from 2880 | to 3530 (G) | No. 5, from 6505 | to 6737 (G) |
| No. 3, from 3530 | to 4590 (G) | 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— |              |
| 10 3/4"     | 32.75           | P.E.             | S.W. | 353'   | Howco        |                     |            |     | Surface      |
| 7 5/8"      | 25.10           | 8 Rd.            | J-55 | 3053'  |              |                     |            |     |              |
| 7 5/8"      | 26.10           | 8 Rd.            | N-80 | 911'   | Baker        |                     |            |     | Intermediate |
| 5 1/2"      | 17.0            | 8 Rd.            | J-55 | 805'   | Baker        |                     |            |     | Prod. Liner  |
| 2"          | 4.7             | 8 Rd.            | J-55 | 6635'  |              |                     |            |     | Prod. tbg.   |
| 2"          | 4.7             | 8 Rd.            | J-55 | 5865'  |              |                     |            |     | Prod. tbg.   |

## MUDDING AND CEMENTING RECORD

| Size casing | Where set | Number sacks of cement | Method used  | Mud gravity | Amount of mud used |
|-------------|-----------|------------------------|--------------|-------------|--------------------|
| 10 3/4"     | 363'      | 250                    | Single Stage |             |                    |
| 7.5/8"      | 5974'     | 430                    | Two Stages   |             |                    |
| 5.1/2"      | 5936-6741 | 300                    | Single Stage |             |                    |

## PLUGS AND ADAPTERS

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

Adapters—Material \_\_\_\_\_ Size Baker Model "D" Packer at 5909'

## SHOOTING RECORD

[illegible]

## TOOLS USED

Rotary tools were used from 0 feet to 6742 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

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

## DATES

-----Jan. 12-----, 1959----- Put to producing -----, 19-----

The production for the first 24 hours was 188 barrels of fluid of which 100 % was oil; ----- % emulsion; ----- % water; and ----- % sediment. Gravity, °Bé. -----

If gas well, cu. ft. per 24 hours ~~D-5,417,000~~ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

Rock pressure, lbs. per sq. in. --D-1915----- Dek.-A.O.F.--6863 MCF/D

## EMPLOYEES

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

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

## FORMATION RECORD

| FROM— | TO—  | TOTAL FEET | FORMATION                                                                                 |
|-------|------|------------|-------------------------------------------------------------------------------------------|
| 0     | 1005 | 1005       | Tan to gry cr-grn ss interbedded w/gry sh.                                                |
| 1005  | 1137 | 132        | Ojo Alamo ss. White cr-grn s.                                                             |
| 1137  | 1748 | 611        | Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.                                |
| 1748  | 1998 | 250        | Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.          |
| 1998  | 2068 | 70         | Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.                          |
| 2068  | 2880 | 812        | Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.                        |
| 2880  | 3530 | 650        | Chacra form. Gry fn grn silty, glauconitic sd stone with drk gry shale.                   |
| 3530  | 3641 | 111        | Cliff House ss. Gry, fine-grn, dense sil ss.                                              |
| 3641  | 4496 | 855        | Menefee form. Gry, fine-grn s, carb sh & coal.                                            |
| 4496  | 4590 | 94         | Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.                           |
| 4590  | 5521 | 931        | Mancos formation. Gry carb sh.                                                            |
| 5521  | 6032 | 511        | Gallup form. Lt gry to brn calc carb micac glauco very fine gry ss w/irreg interbed sh.   |
| 6032  | 6396 | 364        | Sanastee form. Dk gry calc very fine to fine gry ss w/calc veins w/irreg inter drk gry s. |
| 6396  | 6450 | 54         | Greenhorn form. Highly calc gry sh w/thin lmst.                                           |
| 6450  | 6505 | 55         | Graneros form. Dk gry shale, fossil & carb w/prite incl.                                  |

FORMATION RECORD—Continued

| FROM— | TO—  | TOTAL FEET | FORMATION                                                                                                                                                                       |
|-------|------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6506  | 6737 | 232        | Dakota form. Lt to dk gry loess carb sl calc sl silty ss w/pyrite incl thin sh bands clay & shale breaks.<br>Morrison form. Interbed grn brn and red waxy sh & lr to cr grn sd. |
| 6737  | 6742 | 5          |                                                                                                                                                                                 |

HISTORY OF OIL OR GAS WELL

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.

12-12-58 Spotted 300 gal. RMA & oil trac perf. Int. 6626-6636 w/4 DJ/ft v/44,520 gal. oil & 45,000# sand. MDP 2800#, max. pr. 3000#, I.P. 2800#. I.R. 52.5 BPM. Flush 12,600 gallons oil. COTD 6698'. Spotted 300 gal. RMA & oil trac perf. Int. 6516-6524; 6556-6570; 6578-6586 w/4 DJ/ft. w/60,000 gal. oil & 60,000# sand. MDP 2200#, max. pr. 3200#, I.P. 2800-2900-3000#. I.R. 46 BPM. Flush w/14,700 gal. oil. B.P. @ 6613'. 89 balls in 2 sets for 3 stages. Set B.P. @ 6003'. Spotted 600 gal. RMA. Perf. 5702-5714; 5720-5726; 5800-5806 w/4 DJ/ft. 5758-5770; 5778-5794; 5824-5848; 5864-5874; w/2 DJ/ft. w/82,141 gal. oil & 85,000# sand. Flush w/13,650 gal. oil. I.R. 67 BPM. Max. pr. 3000#, MDP 1500#, I.P. 2000-1900-2200-3000#. Dropped 140 balls in 4 sets for 5 stages. Set B.P. @ 5670'. Spotted 300 gal. RMA. Perf. Upper Gallup 5580-5600; 5606-5614; 5619-5628; 5636-5648 w/4 DJ/ft. Traced w/60,000 gal. oil & 60,000# sand. Flush w/12,600 gallons oil. I.R. 55 BPM. Max. pr. 3300#, MDP 2500#, I.P. 2300-2500-2600-2800-3100#. Dropped 150 balls in 4 sets for 5 stages.

12-18-58

12-21-58

12-29-58

D S T  
Sec. 6500-6590  
11-11-58  
11-14-58  
11-15-58  
11-18-58  
11-20-58  
11-20-58  
11-21-58  
Date  
6500-6590  
5742-5930  
5755-5939  
5570-5662  
5678-5780  
5667-5783  
Hit Bridges.  
Recovery  
112' G-C-M  
Mis run  
Packer failure  
60' mud  
Packer failure  
Mis run. Fractures.