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U. S. LAND OFFICE / Santa Fe  
SERIAL NUMBER 078051  
LEASE OR PERMIT TO PROSPECT \_\_\_\_\_

# REFUGEE

APR 19 1954  
U. S. GEOLOGICAL SURVEY  
FARMINGTON, N. M.

# LOG OF OIL OR GAS WELL

### LOCATE WELL CORRECTLY

Company El Paso Natural Gas Company Address Box 997, Farmington, New Mexico  
Lessor or Tract Neil Field Blanco State New Mexico  
Well No. 9 Sec. 4 T. 31N R. 11W Meridian NMPM County San Juan  
Location 990 ft. [N] of S Line and 1600 ft. [E] of W Line of Section 4 Elevation 6227 ft.

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 W. H. Wells

Date April 15, 1954 Title Petroleum Engineer

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

Commenced drilling ----- **January 20,** 19**54** ----- Finished drilling ----- **March 23**-----, 19**54**-----

## OIL OR GAS SANDS OR ZONES

(Denote gas by  $G$ )

No. 1, from 2898 to 2962 (G)      No. 4, from 5151 to 5252 (G)  
 No. 2, from 4510 to 4710 (G)      No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 3, from 4710 to 5151 (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 casting               | Weight per foot | Threads per inch | Make  | Amount   | Kind of shoe | Cut and pulled from | Perforated |    | Purpose |
|----------------------------|-----------------|------------------|-------|----------|--------------|---------------------|------------|----|---------|
|                            |                 |                  |       |          |              |                     | From       | To |         |
| 9 5/8                      | 25.4            | 8RD              | Armco | 162'     | Armco        |                     |            |    | Surface |
| 7                          | 20              | 8RD              | Armco | 228 1/2' | Armco        |                     |            |    | Surface |
| 7                          | 22 1/2          | 8RD              | Armco | 228 1/2' | Armco        |                     |            |    | Surface |
| 2 1/2                      | 11              | 8RD              | Armco | 228 1/2' | Armco        |                     |            |    | Surface |
| 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 |
|-------------|-----------|------------------------|--------------|-------------|--------------------|
| 9 5/8       | 173'      | 125                    | Circulated   |             |                    |
| 7           | 4500'     | 500                    | Single Stage |             |                    |
|             |           |                        |              |             |                    |
|             |           |                        |              |             |                    |
|             |           |                        |              |             |                    |

## 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 |
|----------|------------|----------------|----------|------|------------|-------------------|
| Sand-Oil |            |                |          |      |            | 5280+             |
|          |            |                |          |      |            |                   |
|          |            |                |          |      |            |                   |

## TOOLS USED

Rotary tools were used from 0 feet to 4500 feet, and from 4500 feet to 5000 feet. Gas Drilling

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

## DATES

March 27, 1954 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 \$5,132,000 Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

Rock pressure, lbs. per sq. in. 1024-----

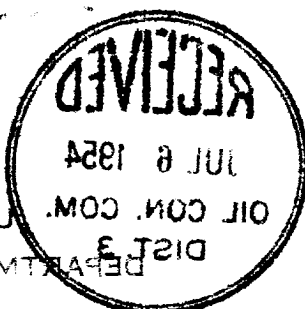
## EMPLOYEES

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

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

## FORMATION RECORD

| FROM— | TO—  | TOTAL FEET | FORMATION                                                                            |
|-------|------|------------|--------------------------------------------------------------------------------------|
| 0     | 1000 | 1000       | Tan cr-grn ss w/thin sh breaks.                                                      |
| 1000  | 1615 | 615        | Variegated sh w/thin ss breaks.                                                      |
| 1615  | 2130 | 515        | Tan to gry cr-grn ss interbedded w/gry sh.                                           |
| 2130  | 2195 | 65         | Ojo Alamo ss. White cr-grn s.                                                        |
| 2195  | 2513 | 323        | Kibbini formation. Gry sh interbedded w/tight gry fine-grn ss.                       |
| 2513  | 2898 | 380        | Fruitland formation. Gry carb sh, scattered coals coals and gry, tight, fine-grn ss. |
| 2898  | 2962 | 64         | Pictured Cliffs formation. Gry, fine-grn, tight, varicolored soft ss.                |
| 2962  | 4510 | 1548       | Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.                   |
| 4510  | 4710 | 200        | Cliff House ss. Gry, fine-grn, dense sil ss.                                         |
| 4710  | 5151 | 441        | Menece formation. Gry, fine-grn s, carb sh and coal.                                 |
| 5151  | 5252 | 101        | Point Lookout formation. Gry, very fine sil ss w/frequent sh breaks.                 |
| 5252  | 5280 | 28         | Manceo formation. Gry carb sh.                                                       |



Bureau of Prisons  
 Serial Number  
 U. S. Penitentiary

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
DIST. 3  
OIL CON. COM. UNITED STATES

## LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Date \_\_\_\_\_ Title \_\_\_\_\_  
 Signed \_\_\_\_\_  
 The information given herewith is a complete and correct record of the work and all work done thereon  
 as far as can be determined from all available records.  
 Location of \_\_\_\_\_ of \_\_\_\_\_  
 Well No. \_\_\_\_\_ Sec. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_ S. \_\_\_\_\_  
 Lessor or Tract \_\_\_\_\_  
 Company \_\_\_\_\_  
 Address \_\_\_\_\_  
 State \_\_\_\_\_

Commenced drilling \_\_\_\_\_, 19\_\_\_\_ Finished drilling \_\_\_\_\_, 19\_\_\_\_

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

OIL OR GAS SANDS OR ZONES

No. 1, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
No. 6, from \_\_\_\_\_ to \_\_\_\_\_

(Denote gas by G)

## IMPORTANT WATER SANDS

Set retainer at 5132. Treated 100% oil formation with 11,200 gallons #2 diesel oil and 10,500# sand. Breakdown pressure 1500#. Injection rate 5.8 barrels per minute. Flushed with 2,200 gallons oil. Cased before sand-oil 50 MCF. Cased 20 hours after treatment at 5130 MCF.

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of reworking, 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 pigs 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

U.S. GOVERNMENT PRINTING OFFICE 10-43094-2

## MIDDING AND CEMENTING RECORD

| Base brand or trademark | Mfg. quantity | Method used   | Number sacks of cement | Water added | Notes |
|-------------------------|---------------|---------------|------------------------|-------------|-------|
|                         |               | Hand mixed    | 60                     | 10          |       |
|                         |               | Machine mixed | 60                     | 10          |       |
|                         |               |               |                        |             |       |
|                         |               |               |                        |             |       |
|                         |               |               |                        |             |       |
|                         |               |               |                        |             |       |

PLUGS AND ADAPTERS

[illegible]

# SHOOTING RECORD

| Size      | Snuff used | Explosives used | Quantity | Date | Depth of shot | Depth of blast |
|-----------|------------|-----------------|----------|------|---------------|----------------|
| 100 - 100 |            |                 |          |      | 2 - 1         |                |

TOOT & LEE

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| test | of test | test | test | test |
| test | of test | test | test | test |

## 23740

|                                             |                                                 |                                  |
|---------------------------------------------|-------------------------------------------------|----------------------------------|
| Oil gas well, one ft. per 24 hours          | emulsion; _____% water; and _____% sediment.    | _____ lb.                        |
|                                             | The production for the first 24 hours was _____ | _____ lb.                        |
| (Thousands gallons per 1000 cu. ft. of gas) | Gravity, P.S.                                   | Pure to producing _____, 19____% |

EMPLOYEES

|        |        |  |  |
|--------|--------|--|--|
| Miller | Miller |  |  |
| Miller | Miller |  |  |

FORMATION RECORD

[illegible]

**FORMATION RECORD—Continued**