

U. S. LAND OFFICE **Santa Fe**SERIAL NUMBER **080377**

LEASE OR PERMIT TO PROSPECT

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

U. S. GEOLOGICAL SURVEY  
WASHINGTON, D. C. 20540

## LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company **El Paso Natural Gas Company** Address **Box 990, Farmington, New Mexico**  
Lessor or Tract **San Juan 29-6** Field **Blanco Mesa Verde** State **New Mexico**  
Well No. **45** Sec. **27** T. **25N** R. **6W** Meridian **N.M.P.M.** County **Rio Arriba**  
Location **1550** ft. **XXX** of **N** Line and **990** ft. **XXX** of **E** Line of **Section 27** Elevation **6373**  
(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. Original Signed **D. W. Meehan**  
Signed \_\_\_\_\_

Date **August 16, 1962**Title **Petroleum Engineer**

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

Commenced drilling **7-1-**, 19 **62** Finished drilling **7-11-**, 19 **62**

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **5020** to **5111 (G)** No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from **5111** to **5427 (G)** No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from **5427** to **5589 (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— |                     |
| <b>9 5/8"</b> | <b>2.3</b>      | <b>8 RA</b>      | <b>J-55</b> | <b>12.5</b> | <b>BLK</b>   | <b>BLK</b>          |            |     | <b>Intermediate</b> |
| <b>7"</b>     | <b>2.3</b>      | <b>8 RA</b>      | <b>J-55</b> | <b>12.5</b> | <b>BLK</b>   | <b>BLK</b>          |            |     | <b>Liner</b>        |
| <b>4 1/2"</b> | <b>2.3</b>      | <b>8 RA</b>      | <b>J-55</b> | <b>12.5</b> | <b>BLK</b>   | <b>BLK</b>          |            |     | <b>Prod tubing</b>  |

## MUDDING AND CEMENTING RECORD

| Size casing   | Where set        | Number sacks of cement | Method used       | Mud gravity | Amount of mud used |
|---------------|------------------|------------------------|-------------------|-------------|--------------------|
| <b>9 5/8"</b> | <b>136</b>       | <b>100</b>             | <b>circulated</b> |             |                    |
| <b>7"</b>     | <b>3499</b>      | <b>140</b>             | <b>single</b>     |             |                    |
| <b>4 1/2"</b> | <b>3355-5640</b> | <b>220</b>             | <b>single</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>Perf 5040-44, 509-94, 5106-10 (3 SFF), 5406-12, 5430-36, 5462-68, 5492-98, 5518-24 (2 SFF); Frac w/57,500 gal wtr, 50,000# sd. Fl w/7000 gal, I.R. 45 BPM. MP 3000#, TP 1400-3000#, 4 drops of 6 balls. Frac thru 5040-44, 5090-94, 5106-10 perf. 32,000 gal wtr, 29,000# sd. Fl w/7000 gal. IR 35 BPM. MP 3000#, MP 3000#, tr w/ 1000-1700# 2 drops of 6 balls.</b> |            |                |          |      |            |                   |

Rotary tools were used from **0** feet to **5640** feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

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

## DATES

\_\_\_\_\_ **7-26-**, 19 **62** 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 **1,822,000** Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_Rock pressure, lbs. per sq. in. **1090 csg.** **A.O.F. 2097 MCF/D**

## EMPLOYEES

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

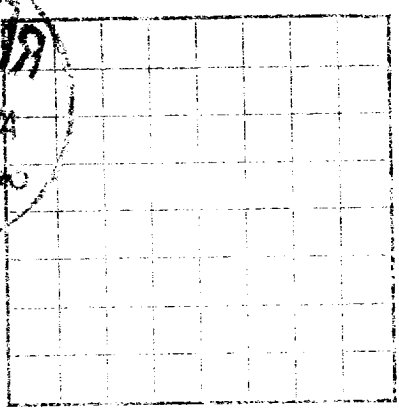
\_\_\_\_\_, Driller \_\_\_\_\_, Driller

## FORMATION RECORD

| FROM—       | TO—         | TOTAL FEET  | FORMATION                                                              |
|-------------|-------------|-------------|------------------------------------------------------------------------|
| <b>0</b>    | <b>5020</b> | <b>5020</b> | <b>Tan to gry cr-grn ss interbedded w/gry sh.</b>                      |
| <b>5020</b> | <b>5111</b> | <b>91</b>   | <b>Cliff House ss. Gry, fine-grn, dense sil ss.</b>                    |
| <b>5111</b> | <b>5427</b> | <b>316</b>  | <b>Manatee form. Gry, fine-grn s, carb sh &amp; coal.</b>              |
| <b>5427</b> | <b>5589</b> | <b>162</b>  | <b>Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.</b> |
| <b>5589</b> | <b>5640</b> | <b>51</b>   | <b>Manatee form. Gry &amp; carb sh.</b>                                |

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SERIAL NUMBER  
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LOG OF OIL OR GAS WELL

Company \_\_\_\_\_  
Address \_\_\_\_\_  
Field \_\_\_\_\_  
State \_\_\_\_\_  
County \_\_\_\_\_  
Location \_\_\_\_\_  
The information given herein 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) \_\_\_\_\_  
Date \_\_\_\_\_

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

OIL OR GAS SANDS OR ZONES

(Please give by ft.)  
No. 1 from \_\_\_\_\_ to \_\_\_\_\_  
No. 2 from \_\_\_\_\_ to \_\_\_\_\_  
No. 3 from \_\_\_\_\_ to \_\_\_\_\_

IMPORTANT WATER SANDS

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

CASING RECORD

Size of casing \_\_\_\_\_  
Length of casing \_\_\_\_\_  
Amount of casing \_\_\_\_\_  
Purpose \_\_\_\_\_

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 added, state the date 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

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| DATE | THICKNESS OF CASING | THICKNESS OF CEMENT | THICKNESS OF MUD | THICKNESS OF MUD |
|------|---------------------|---------------------|------------------|------------------|
|      |                     |                     |                  |                  |
|      |                     |                     |                  |                  |
|      |                     |                     |                  |                  |
|      |                     |                     |                  |                  |

PLUGS AND ADAPTERS

Adapter—Material \_\_\_\_\_  
Length \_\_\_\_\_  
Depth set \_\_\_\_\_

SHOOTING RECORD

Shot \_\_\_\_\_  
Explosive used \_\_\_\_\_  
Quantity \_\_\_\_\_  
Depth shot \_\_\_\_\_  
Depth cleared out \_\_\_\_\_

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.

DATES

But to production \_\_\_\_\_  
The production for the first 24 hours was \_\_\_\_\_  
The production for the first 24 hours was \_\_\_\_\_  
The production for the first 24 hours was \_\_\_\_\_

EMPLOYEES

Driller \_\_\_\_\_  
Driller \_\_\_\_\_

FORMATION RECORD

| FORMATION | TOTAL FEET | TO—   | FROM— |
|-----------|------------|-------|-------|
| _____     | _____      | _____ | _____ |
| _____     | _____      | _____ | _____ |
| _____     | _____      | _____ | _____ |
| _____     | _____      | _____ | _____ |
| _____     | _____      | _____ | _____ |
| _____     | _____      | _____ | _____ |
| _____     | _____      | _____ | _____ |
| _____     | _____      | _____ | _____ |
| _____     | _____      | _____ | _____ |
| _____     | _____      | _____ | _____ |