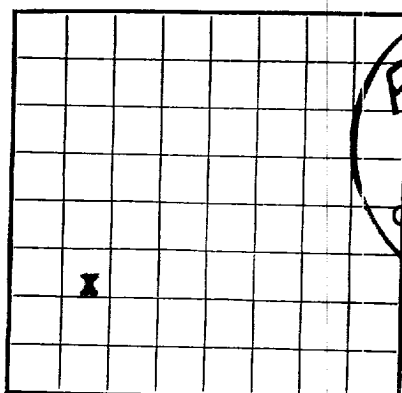
U. S. LAND OFFICE Santa Fe  
SERIAL NUMBER 07800  
LEASE OR PERMIT TO PROSPECT \_\_\_\_\_UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company El Paso Natural Gas Company Address Box 990, Farmington, New Mexico  
Lessor or Tract Schoen Field Basin Dakota State New Mexico  
Well No. 2 Sec. 27 T. 30-N R. 10-W Meridian N.M.P.M. County San Juan  
Location 1650 ft. N. of 8 Line and 1150 ft. E. of W. Line of Section 27 Elevation 6156  
(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.

Signed ORIGINAL SIGNED A.M. SMITHDate July 6, 1961 Title Petroleum Engineer

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

Commenced drilling 5-13, 1961 Finished drilling 6-3, 1961

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 4289 to 4430 (a) No. 4, from 6981 to 7119 (a)  
No. 2, from 4430 to 4955 (a) No. 5, from 7119 to 7315 (a)  
No. 3, from 4955 to 5051 (a) 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— |             |
| 9 5/8"      | 47              | 8 rd             | J-55 | 7176   |              |                     |            |     | Prod tubing |

## MUDDING AND CEMENTING RECORD

| Size casing | Where set | Number sacks of cement | Method used | Mud gravity | Amount of mud used |
|-------------|-----------|------------------------|-------------|-------------|--------------------|
| 9 5/8"      | 301       | 350                    | circulated  |             |                    |
| 5 1/2"      | 7314      | 620                    | 3 stages    |             |                    |

## 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 |
|------------|-------------------------------------------------------------------------|----------------|----------|------|------------|-------------------|
| 7038-7048; | Water from Dakota perf w/50,100 gal water & 50,000# sand. BHP 900#, max |                |          |      |            |                   |
| 7120-7130; | w/ 3500#, avg tr w/ 3000-2900-3000-3400#. I.R. 43 BPM. Flush 7500 gal.  |                |          |      |            |                   |
| 7216-7222; | 3 stages - 2 drops, one of 13 balls & 1 of 6 balls.                     |                |          |      |            |                   |

## TOOLS USED

Rotary tools were used from 0 feet to 7315 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

## DATES

6-8, 1961 Put to producing \_\_\_\_\_, 19\_\_\_\_

The production for the first 24 hours was \_\_\_\_\_ barrels of fluid of which \_\_\_\_\_% was oil; \_\_\_\_\_% emulsion; \_\_\_\_\_% water; and \_\_\_\_\_% sediment.

If gas well, cu. ft. per 24 hours 2,252,000 Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_Rock pressure, lbs. per sq. in. 2102

A.O.F. - 2434 MCF/D

## EMPLOYEES

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

## FORMATION RECORD

| FROM— | TO—  | TOTAL FEET | FORMATION                                                                                               |
|-------|------|------------|---------------------------------------------------------------------------------------------------------|
| 0     | 1322 | 1322       | Tan to gry cr-grn ss interbedded w/gry sh.                                                              |
| 1322  | 1500 | 178        | Ojo Alamo ss. White cr-grn s.                                                                           |
| 1500  | 2363 | 863        | Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.                                              |
| 2363  | 2680 | 317        | Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.                        |
| 2680  | 2808 | 128        | Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.                                        |
| 2808  | 4289 | 1481       | Lewis form. Gry, fine-grn, dense sil ss.                                                                |
| 4289  | 4430 | 141        | Mesa Verde form. Gry, fine-grn, dense sil ss, carb sh & coal.                                           |
| 4430  | 4955 | 525        | Maneform form. Gry, fine-grn s, carb sh & coal                                                          |
| 4955  | 5051 | 96         | Point Lockhart form. Gry, very fine sil ss w/frequent sh breaks.                                        |
| 5051  | 6186 | 1135       | Maneform form. Gry carb sh.                                                                             |
| 6186  | 6925 | 739        | Gallop form. Lt gry to brn calc carb micac glauco very fine gry ss w/irreg.interbed sh                  |
| 6925  | 6981 | 56         | Greenhorn form. Highly calc gry sh w/thin lmst.                                                         |
| 6981  | 7119 | 138        | Graneros form. Dk gry sh, fossil & carb w/white incl.                                                   |
| 7119  | 7315 | 196        | Dakota form. Lt to dk gry foss carb sl calc sl silty ss w/white incl thin sh bands clay & shale breaks. |
| FROM— | TO—  | TOTAL FEET | FORMATION                                                                                               |

FORMATION RECORD—Continued

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

A grid of graph paper with a circular stamp on the left side containing the number 97.

Commenced drilling 5-13-1961 Finished drilling 6-7-1961  
The summary on this page is for the condition of the well at above date.  
Date July 6, 1961 Title Petroleum Engineer

## OIL OR GAS SANDS OR ZONES

| No. 3, from |    | No. 2, from |    | No. 1, from |      |
|-------------|----|-------------|----|-------------|------|
| 4555        | to | 5051 (c)    | to | 4589        | from |
| 4555        | to | 4555 (a)    | to | 4430        | from |
| 4555        | to | 4555 (b)    | to | 4589        | from |
| 4555        | to | 4555 (c)    | to | 4589        | from |

## IMPORTANT WATER SANDS

\_\_\_\_\_ of \_\_\_\_\_, No. 8, from \_\_\_\_\_ of \_\_\_\_\_, No. 1, from \_\_\_\_\_ of \_\_\_\_\_, No. 4, from \_\_\_\_\_ of \_\_\_\_\_, No. 2, from \_\_\_\_\_

## CASING RECORD

|                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                 |  |                             |  |              |  |               |  |                     |  |                            |  |                            |  |                |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------|--|-----------------------------|--|--------------|--|---------------|--|---------------------|--|----------------------------|--|----------------------------|--|----------------|--|
| <p>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 nature of the work and its results. 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.</p> |  | <p>Size casing<br/>per foot</p> |  | <p>Threads per<br/>inch</p> |  | <p>Risks</p> |  | <p>Amount</p> |  | <p>Kind of shoe</p> |  | <p>Cut and pulled from</p> |  | <p>Particulars<br/>To—</p> |  | <p>Purpose</p> |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------|--|-----------------------------|--|--------------|--|---------------|--|---------------------|--|----------------------------|--|----------------------------|--|----------------|--|

## HISTORY OF OIL OR GAS WELL

|                                 |            |                                 |
|---------------------------------|------------|---------------------------------|
| U.S. GOVERNMENT PRINTING OFFICE | 16-53094-2 | U.S. GOVERNMENT PRINTING OFFICE |
|---------------------------------|------------|---------------------------------|

NUDDING AND CEMENTING RECORD

| Where set | Number sacks of cement | Method used | Mud gravity | Amount of mud poured |
|-----------|------------------------|-------------|-------------|----------------------|
| 101       | 30                     | Test        |             |                      |
| 102       | 30                     | Test        |             |                      |

PLUGS AND ADAPTERS

| Chapters—Material     | Size | Length | Depth set |
|-----------------------|------|--------|-----------|
| Leaving plug—Material |      |        |           |

## SHOOTING RECORD

| Size      | Shell used | Explosive used | Quantity                                                                   | Date | Depth shot | Depth cleaned out |
|-----------|------------|----------------|----------------------------------------------------------------------------|------|------------|-------------------|
| 12-10 1/2 |            |                | 3 sticks - 5 drops, one of 1 1/2 balls & 1 of 6 balls                      |      |            |                   |
| 12-10 1/2 |            |                | pr 3500#, avg 12 pr 3000-3500-3600#. 1 pr. 43 R.M. 1500-1500               |      |            |                   |
| 12-10 1/2 |            |                | Water first 12000 ball 1/20, 100 gal water & 50,000# sand. 1000-3000#, max |      |            |                   |

**TOOLS USED**

|      |         |               |      |         |                         |
|------|---------|---------------|------|---------|-------------------------|
| test | of test | monitors test | test | of test | monitors were used from |
| test | of test | monitors test | test | of test | monitors were used from |

DATE

|                                                |                                                                                                       |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| If gas well, cu. ft. per 24 hours<br>5,525,000 | The production for the first 24 hours was<br>_____ barrels of fluid of which _____ % was oil; _____ % |
| Put to producing _____, 19____                 | Gravity, °Bé. _____                                                                                   |

## EMPLOYEES

|         |  |  |  |
|---------|--|--|--|
| Driller |  |  |  |
| Driller |  |  |  |

FORMATION RECORD

| FROM— | TO—  | TOTAL FEET | FORMATION                                                                                                |
|-------|------|------------|----------------------------------------------------------------------------------------------------------|
| 0     | 1325 | 1325       | Tan to gray cr-grn ss interbedded w/gray sh.                                                             |
| 1325  | 1500 | 175        | 0 to Alamo ss. White cr-grn ss.                                                                          |
| 1500  | 2363 | 863        | Kirtland form. Gray sh interbedded w/light gray fine-grn ss.                                             |
| 2363  | 2600 | 237        | Kirtland form. Gray carb sh, scattered coals, coals and gray, tight, fine-grn ss.                        |
| 2600  | 2808 | 208        | Pictured Cliffs forma. Gray, fine-grn, tight, varicolored soft ss.                                       |
| 2808  | 4299 | 1491       | Lewis form. Gray, fine-grn, dense all ss.                                                                |
| 4299  | 4430 | 131        | Mesa Verde form. Gray, fine-grn, dense all ss, carb sh & coal.                                           |
| 4430  | 4552 | 222        | Menefee form. Gray, fine-grn s, carb sh & coal.                                                          |
| 4552  | 5051 | 499        | Point Lookout form. Gray, very fine all ss w/frequent sh breaks.                                         |
| 5051  | 6186 | 1135       | Mancos form. Gray carb sh.                                                                               |
| 6186  | 6925 | 739        | Calup form. Lt gray to brn calc carb micac.                                                              |
| 6925  | 6981 | 56         | Alamo very fine gray ss w/fine, interbedded sh.                                                          |
| 6981  | 7199 | 218        | Greenhorn form. Highly calc gray sh w/thin lent.                                                         |
| 7199  | 7315 | 116        | Graneros form. Lk gray sh, fossil & carb w/white incl.                                                   |
|       |      |            | Lakota form. Lt to dk gray foss carb sh calc sh silty ss w/white incl thin sh bands clay & shale breaks. |