

A 10x10 grid with a small black dot in the 7th column and 8th row.

U. S. LAND OFFICE \_\_\_\_\_  
SERIAL NUMBER 11-20-603-782 \_\_\_\_\_  
LEASE OR PERMIT TO PROSPECT \_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

# LOG OF OIL OR GAS WELL

## LOCATE WELL CORRECTLY

Company Pan American Petroleum Corporation Address Box 487, Farmington, New Mexico  
Lessor or Tract Navajo Allotted Gas Unit "B" Field Blanco-Mesaverte State New Mexico  
Well No. 1 Sec. 36 T. 28N R. 9W Meridian N.M.P.M. County San Juan  
Location 1845 ft. N. of 0 Line and 1180 ft. W. of E Line of Section 36 Elevation 5227  
(Describe 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.

Date July 23, 1957 Title Field Clerk

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

Commenced drilling May 25, 1957 Finished drilling June 8, 1957

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2052 to 2106 : No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 2, from 4312 to 4318 : No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 3, from \_\_\_\_\_ to \_\_\_\_\_ : 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

[illegible]

### MUDDING AND CEMENTING RECORD

| Size casing | Where set | Number sacks of cement | Method used   | Mud gravity | Amount of mud used |
|-------------|-----------|------------------------|---------------|-------------|--------------------|
| 10-3/4      | 230       | 170                    | Halliburton 2 | Plug        |                    |
| 7-5/8       | 2353      | 340                    | Halliburton 2 | Plug        |                    |
| 5-1/2       | 4579      | 150                    | Halliburton 2 | Plug        |                    |

## PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....

Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

## SHOOTING RECORD

| <b>Size</b> | <b>Shell used</b> | <b>Explosive used</b> | <b>Quantity</b> | <b>Date</b> | <b>Depth shot</b> | <b>Depth cleaned out</b> |
|-------------|-------------------|-----------------------|-----------------|-------------|-------------------|--------------------------|
|             |                   |                       |                 |             |                   |                          |
|             |                   |                       |                 |             |                   |                          |
|             |                   |                       |                 |             |                   |                          |
|             |                   |                       |                 |             |                   |                          |
|             |                   |                       |                 |             |                   |                          |

## TOOLS USED

Rotary tools were used from 0 feet to 450 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

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

## DATES

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 \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

Rock pressure, lbs. per sq. in. ~~xxxxxx~~-----

## EMPLOYEES

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

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

# FORMATION RECORD

| FROM— | TO—  | TOTAL FEET | FORMATION                                          |
|-------|------|------------|----------------------------------------------------|
| 0     | 230  | 230        | Surface sand and boulders                          |
| 230   | 2052 | 1822       | Sand and shale                                     |
| 2052  | 2104 | 52         | Sand (Top of Pictured Cliffs <del>2052</del> 2052) |
| 2104  | 3731 | 1627       | Shale and sand                                     |
| 3731  | 4308 | 577        | Shale (Top of Menefee 3731)                        |
| 4308  | 4520 | 212        | Sand (Top of Point Lookout 4308)                   |
| 4520  | 4554 | 34         | Shale (Top of Mancos 4520)                         |

[illegible]

## 16-43094-2 U. S. GOVERNMENT PRINTING OFFICE

This well was cased on May 24, 1957, and 10-3/4" casing was set at 230' with 170 sacks cement. After waiting on cement for 24 hours, casing and water shut-off were tested with 800 pounds for 30 minutes with no drop in pressure.

On May 30, 1957 7-5/8" casing was landed at 2353' and cemented with 340 sacks cement. After waiting on cement for 24 hours, casing and water shut-off were tested with 800 pounds pressure for 30 minutes with no drop in pressure.

3-1/2" casing was set at 4579' with 150 sacks cement. After waiting on cement for 24 hours, casing and water shut-off were tested with 600 pounds for 30 minutes with no drop in pressure. Completion operations were begun.

This well was perforated with two shots per foot 4312-20, 4312-25, 4403-19, 4412-57, 4481-91, 4506-18. These perforations were sand water fractured with 66,600 gallons of water and 65,000 pounds sand using 150 rubber balls in five stages. Breakdown pressure 3450 pounds. Average injection rate 60 BPM. Preliminary test 3844 SCFD.

[illegible]

FOR SALE WITH COMPLETE SET

[illegible]

FOR OR OUT OF GOVERNMENT

GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR

UNITED STATES

TYPE OF LETTER TO THORP

CARLTON J. C. JENSEN

012174P DRAKE