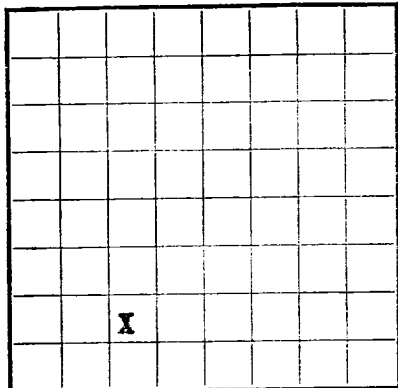
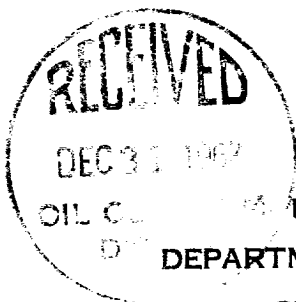




LOCATE WELL CORRECTLY

U. S. LAND OFFICE **Mearilla Tribal**

SERIAL NUMBER .....

LEASE OR PERMIT TO PROSPECT .....

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## LOG OF OIL OR GAS WELL

Company **Pan American Petroleum Corporation** Address **Box 480, Farmington, New Mexico**  
Lessor or Tract **Mearilla Contract 148** Field **Otero Chacra** State **New Mexico**  
Well No. **16** Sec. **14** T. **25N** R. **5W** Meridian **N.M.P.M.** County **Rio Arriba**  
Location **790** ft.  $\begin{Bmatrix} N. \\ S. \end{Bmatrix}$  of **3** Line and **1550** ft.  $\begin{Bmatrix} E. \\ W. \end{Bmatrix}$  of **W** Line of **Section 14** Elevation **704.3**  
(Barrel 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 .....

Date **December 26, 1962** Title **Petroleum Engineer**

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

Commenced drilling **December 3**, 19**62** Finished drilling **December 10**, 19**62**

**OIL OR GAS SANDS OR ZONES**  
(Denote gas by G)  
\*Perforation intervals on  
Correlation Log  
No. 1, from **4119** to **4123** No. 4, from ..... to .....  
No. 2, from **4130** to **4134** 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

| Size casing   | Weight per foot | Threads per inch | Make        | Amount      | Kind of shoe  | Cut and pulled from | Perforated |     | Purpose           |
|---------------|-----------------|------------------|-------------|-------------|---------------|---------------------|------------|-----|-------------------|
|               |                 |                  |             |             |               |                     | From—      | To— |                   |
| <b>8-5/8"</b> | <b>42.7</b>     | <b>4</b>         | <b>4-55</b> | <b>4266</b> | <b>Culter</b> | <b>Surface</b>      |            |     | <b>Surface</b>    |
| <b>4-1/2"</b> | <b>9.5</b>      | <b>4</b>         | <b>4-55</b> | <b>4266</b> | <b>Culter</b> | <b>Oil String</b>   |            |     | <b>Oil String</b> |

## MUDDING AND CEMENTING RECORD

| Size casing   | Where set   | Number sacks of cement | Method used               | Mud gravity | Amount of mud used |
|---------------|-------------|------------------------|---------------------------|-------------|--------------------|
| <b>8-5/8"</b> | <b>213</b>  | <b>135</b>             | <b>1 Plug Halliburton</b> |             |                    |
| <b>4-1/2"</b> | <b>4250</b> | <b>300</b>             | <b>2 Plug Halliburton</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 |
|------|------------|----------------|----------|------|------------|-------------------|
|      |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |

## TOOLS USED

Rotary tools were used from ..... feet to **4250** feet, and from ..... feet to ..... feet

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

## DATES

December 20, 19**62** Completed as shut in gas well  
Put to producing **December 20**, 19**62**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 **1304** Gallons gasoline per 1,000 cu. ft. of gas .....Rock pressure, lbs. per sq. in. **870 (CFC)**

## EMPLOYEES

L. C. Davis, Driller Jack Bryant, Driller

Jackie White, Driller Pete Estes, Driller

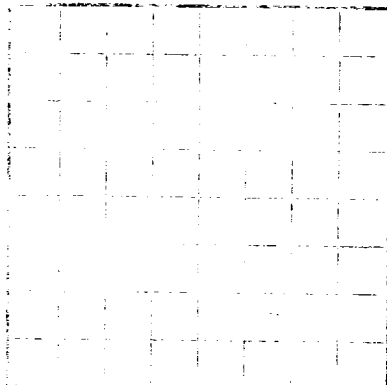
## FORMATION RECORD

| FROM— | TO—  | TOTAL FEET | FORMATION                         |
|-------|------|------------|-----------------------------------|
| 0     | 2677 | 2677       | Surface Sand and Shale            |
| 2677  | 2868 | 191        | Ojo-Alamo Sand                    |
| 2863  | 3220 | 352        | Kirtland-Fruitland Shale and Sand |
| 3220  | 3303 | 83         | Pictured Cliffs Sand              |
| 3303  | 4112 | 809        | Lewis Shale                       |
| 4112  | 4154 | 42         | Chacra Sand                       |
| 4154  | 4250 | 96         | Lewis Sand and Shale              |

(OVER)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL



LOCATE WELL CORRECTLY

Company Name \_\_\_\_\_  
Location \_\_\_\_\_  
The information given herewith is a complete and correct record of the well and all work done thereon  
as 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.  
Commenced drilling \_\_\_\_\_  
Completed drilling \_\_\_\_\_  
Finished depth \_\_\_\_\_

OIL OR GAS SANDS OR NONES

(Denote gas by G)  
No. 1 from \_\_\_\_\_ to \_\_\_\_\_  
No. 2 from \_\_\_\_\_ to \_\_\_\_\_  
No. 3 from \_\_\_\_\_ to \_\_\_\_\_  
No. 4 from \_\_\_\_\_ to \_\_\_\_\_

IMPORTANT WATER SANDS

No. 1 from \_\_\_\_\_ to \_\_\_\_\_  
No. 2 from \_\_\_\_\_ to \_\_\_\_\_  
No. 3 from \_\_\_\_\_ to \_\_\_\_\_  
No. 4 from \_\_\_\_\_ to \_\_\_\_\_

CASING RECORD

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 its 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. Casing per foot Weight per foot Threads per inch M. S. E. Amount Kind of shoe Cut and pulled from From To Purpose

HISTORY OF OIL OR GAS WELL

MUDDING AND CEMENTING RECORD

| Size casing | Water set | Number sacks of cement | Method used | Foot gravity | Amount of mud used |
|-------------|-----------|------------------------|-------------|--------------|--------------------|
|             |           |                        |             |              |                    |
|             |           |                        |             |              |                    |
|             |           |                        |             |              |                    |

PLUGS AND ADAPTERS

Heavy plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth set \_\_\_\_\_  
Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

SHOOTING RECORD

| Size | Shell used | Explosive used | Quantity | Date | 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

This production for the first 24 hours was \_\_\_\_\_ of water; and \_\_\_\_\_ of sediment.  
It was \_\_\_\_\_ of water per 24 hours.  
Rock pressure, lbs. per sq. in. \_\_\_\_\_  
Gallons produced per 1,000 cu. ft. of rock \_\_\_\_\_  
Gravity, B.G. \_\_\_\_\_  
Kind of fluid of which \_\_\_\_\_ was oil; \_\_\_\_\_ was gas.

FORMATION RECORD

| FROM— | TO—  | TOTAL FEET | FORMATION              |
|-------|------|------------|------------------------|
| 0     | 100  | 100        | Gravel, sand and shale |
| 100   | 200  | 200        | Gravel, sand and shale |
| 200   | 300  | 300        | Gravel, sand and shale |
| 300   | 400  | 400        | Gravel, sand and shale |
| 400   | 500  | 500        | Gravel, sand and shale |
| 500   | 600  | 600        | Gravel, sand and shale |
| 600   | 700  | 700        | Gravel, sand and shale |
| 700   | 800  | 800        | Gravel, sand and shale |
| 800   | 900  | 900        | Gravel, sand and shale |
| 900   | 1000 | 1000       | Gravel, sand and shale |

FORMATION RECORD—Continued