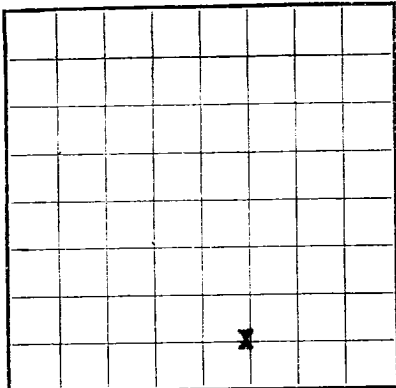




LOCATE WELL CORRECTLY

U. S. LAND OFFICE **Santa Fe**  
SERIAL NUMBER **SF-0812994**  
LEASE OR PERMIT TO PROSPECT **SF 68-299-17**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## LOG OF OIL OR GAS WELL

Company **Pan American Petroleum Corporation** Address **Box 487, Farmington, New Mexico**  
Lessor or Tract **J. J. Kaniorki** Field **Horseshoe Gallup** State **New Mexico**  
Well No. **1** Sec. **13** T. **30N** R. **16E** Meridian **N.M.P.M.** County **San Juan**  
Location **660** ft. **N.** of **S.** Line and **1980** ft. **E.** of **E.** Line of **Section 13** Elevation **5416** (RDB)  
(Derriek 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 BY **C. Speer, Jr.**  
Signed **L. O. Speer, Jr.**  
Date **October 6, 1959** Title **Area Superintendent**

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

Commenced drilling **August 20**, 19**59** Finished drilling **August 30**, 19**59**

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **3890** to **3924** No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from **3990** to **4063** 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>22.0</b>     | <b>5</b>         | <b>Cliff Joint</b> | <b>209</b>  | <b>Guide</b> |                     |            |     | <b>Surface</b>    |
| <b>5-1/2"</b> | <b>14</b>       | <b>8</b>         | <b>National</b>    | <b>4063</b> | <b>Guide</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>209</b>  | <b>160 sacks cement</b> | <b>Halliburton 1 plug</b> |             |                    |
| <b>5-1/2"</b> | <b>4063</b> | <b>130 sacks cement</b> | <b>Halliburton 2 plug</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 **0** feet to **4068** feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

Completed as pumping oil well **Horseshoe Gallup** Date first new oil produced: \_\_\_\_\_  
Field **October 4, 1959**, 19\_\_\_\_ Put to producing **September 28**, 19**59**  
Potential test pumped **35 barrels oil in 24 hours with 12-588 strokes per minute with 12" pump.** The production for the first 24 hours was **35** barrels of fluid of which **99.8** was oil, \_\_\_\_\_%  
emulsion; \_\_\_\_\_% water; and **.2**% sediment. Gravity, °Bé. **40.8**

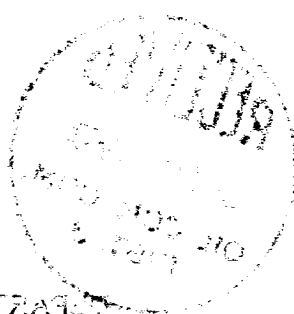
Gas oil **hydrocarbon** \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_  
Rock pressure, lbs. per sq. in. \_\_\_\_\_

## EMPLOYEES

**M. O. Ebersold**, Driller **Cotton Gipson**, Driller  
**J. D. Coleman**, Driller **B. R. McClain**, Driller

## FORMATION RECORD

| FROM—       | TO—         | TOTAL FEET  | FORMATION                                     |
|-------------|-------------|-------------|-----------------------------------------------|
| <b>0</b>    | <b>210</b>  | <b>210</b>  | <b>Surface sand &amp; shale.</b>              |
| <b>210</b>  | <b>730</b>  | <b>520</b>  | <b>Lewis shale.</b>                           |
| <b>730</b>  | <b>950</b>  | <b>220</b>  | <b>Cliffhouse sand &amp; shale.</b>           |
| <b>950</b>  | <b>2295</b> | <b>1345</b> | <b>Menefee sand, shale &amp; coal.</b>        |
| <b>2295</b> | <b>2605</b> | <b>310</b>  | <b>Point Lookout sand &amp; shale.</b>        |
| <b>2605</b> | <b>3854</b> | <b>1249</b> | <b>Mancos shale.</b>                          |
| <b>3854</b> | <b>3890</b> | <b>36</b>   | <b>Gallup sand &amp; shale.</b>               |
| <b>3890</b> | <b>3985</b> | <b>95</b>   | <b>Verde Gallup pay sand &amp; shale.</b>     |
| <b>3985</b> | <b>4068</b> | <b>83</b>   | <b>Horseshoe Gallup pay sand &amp; shale.</b> |
|             |             |             | <b>(Tops from E log)</b>                      |



RELEASING OFFICIALS  
ACQUISITION UNIT AND TARRANT  
VENDOR ASSOCIATED

NEW 240 TO 110 90 90.1

100% FINE MESH CORRECTION

Spudded 7-7/8" hole on August 20, 1959 and drilled to 216'. Rmmed 12-1/4" hole to 216'. 8-5/8" casing set at 209'. 1 1/2" 160 sacks cement containing 2% calcium chloride circulated out 65 sacks of cement. After waiting on cement, casing and water shut off were tested with 700 psi for thirty minutes, which held with no indication of pressure drop. Reduced hole to 7-7/8" at 209' and resumed drilling operations. 7-1/2" casing was set at 4063' with 80 sacks of port cement containing 1-1/2 pounds Tur-Pug per sack followed by 50 sacks neat cement. Released rotary rig and moved in completion unit. Tested casing with 2850 psi for thirty minutes, which held with no indication of pressure drop.

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 "struck" 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 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

U. S. GOVERNMENT PRINTING OFFICE 16-53084-2

[illegible]