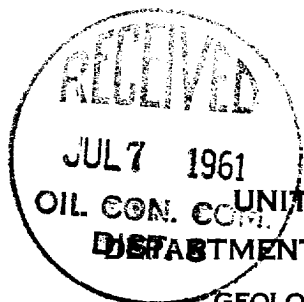


LOCATE WELL CORRECTLY



U. S. LAND OFFICE Navajo Tribal  
SERIAL NUMBER 14-20-603-2198  
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 Navajo Tribal "E" Field Totah Gallup State New Mexico

Well No. 2 Sec. 14 T. 20N R. 11W Meridian N.M.P.M. County San Juan

Location 1000 ft. N. of 1000 ft. W. of 1000 ft. E. of 1000 ft. Elevation 5244

The information given herewith is a complete and correct record of the well and all strata thereon so far as can be determined from all available records.

Signed P. M. Banger Date June 30, 1961 Title Resident Petroleum Engineer

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

Commenced drilling June 21, 1961 Finished drilling June 27, 1961

### OIL OR GAS SANDS OR ZONES

No. 1, from 1931 to 1938 No. 4, from \_\_\_\_\_ to \_\_\_\_\_

No. 2, from \_\_\_\_\_ to \_\_\_\_\_ 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 | No. of joints | Kind of steel | Cut and pulled from | Remarks | Purpose    |
|-------------|-----------------|------------------|------|---------------|---------------|---------------------|---------|------------|
| 8-5/8"      | 26.5            | 8                | API  | 10            | Galv          |                     |         | Off string |
| 4-1/2"      | 9.5             | 8                | API  | 50            | Galv          |                     |         |            |

### MUDDING AND CEMENTING RECORD

| Size casing | Where set | Number sacks of cement | Method used        | Mud gravity | Amount of mud used |
|-------------|-----------|------------------------|--------------------|-------------|--------------------|
| 8-5/8"      | 190       | 220 sacks of cement    | Halliburton 2 Plug |             |                    |
| 4-1/2"      | 5025      | 200 sacks of cement    | Halliburton 2 Plug |             |                    |

### 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 5033 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

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

Completed as Flowing Totah Gallup Well DATES First new oil produced

June 30, 1961 Put to producing June 27, 1961

The production for the first 24 hours was 287 barrels of fluid of which 99.8 % was oil; \_\_\_\_\_ % emulsion; \_\_\_\_\_ % water; and .2 % sediment. Gravity, °Bé. 41.4

If gas well, cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

Rock pressure, lbs. per sq. in. \_\_\_\_\_

### EMPLOYEES

K. R. Ruyon, Driller M. W. McDonald, Driller

Jackie White, Driller Pete Ester, Driller

### FORMATION RECORD

| FROM— | TO—  | TOTAL FEET | FORMATION   |
|-------|------|------------|---|
| 0     | 820  | 820        | Surface sands and shales including Kirtland, Farmington, and Fruitland zones. |
| 820   | 1032 | 212        | Pictured Cliffs sands and shales.   |
| 1032  | 2405 | 1373       | Lewis shale.  |
| 2405  | 3630 | 1225       | Mesaverde sands and shales.   |
| 3630  | 4558 | 928        | Mancos shale.   |
| 4558  | 4875 | 317        | Gallup sands and shales.  |
| 4875  | 5033 | 158        | Gallup pay sands and shales   |

(Tops from "E" Log)

