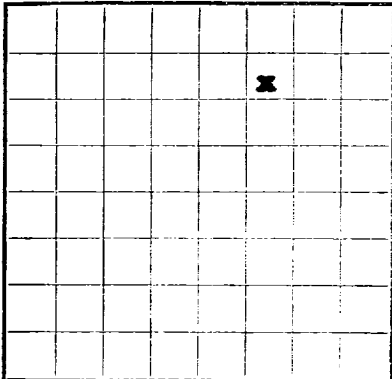
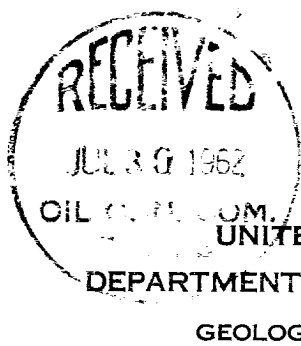




LOCATE WELL CORRECTLY

U. S. LAND OFFICE Santa Fe  
SERIAL NUMBER SF-077968  
LEASE OR PERMIT TO PROSPECTUNITED 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 Southeast Cha Cha Unit Field Water Source Well State New Mexico  
Well No. 1 Sec. 16 T. 28N R. 13E Meridian NMPM County San Juan  
Location 910 ft. N of N Line and 1850 ft. W of E Line of Section 16 Elevation 6055  
(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 \_\_\_\_\_

Date July 24, 1962 Title Petroleum Engineer

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

Commenced drilling January 18, 19 62 Finished drilling February 12, 1962

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5720 to 5735 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 2630 to 3488 No. 3, from 4188 to 4383  
No. 2, from 3658 to 4035 No. 4, from 6573 to 7076

## CASING RECORD

| Size casing    | Weight per foot | Threads per inch | Make            | Amount      | Kind of shoe | Cut and pulled from | Perforated |     | Purpose        |
|----------------|-----------------|------------------|-----------------|-------------|--------------|---------------------|------------|-----|----------------|
|                |                 |                  |                 |             |              |                     | From—      | To— |                |
| <u>13-3/8"</u> | <u>26.6</u>     | <u>8RT</u>       | <u>Arco</u>     | <u>333</u>  | <u>Guide</u> |                     |            |     | <u>Surface</u> |
| <u>9-5/8"</u>  | <u>40</u>       | <u>8RT</u>       | <u>X line</u>   | <u>1199</u> | <u>Guide</u> |                     |            |     | <u>Oil</u>     |
| <u>8-5/8"</u>  | <u>36</u>       | <u>8RT</u>       | <u>CP&amp;I</u> | <u>5992</u> |              |                     |            |     | <u>String</u>  |

## MUDDING AND CEMENTING RECORD

| Size casing    | Where set   | Number sacks of cement | Method used         | Mud gravity | Amount of mud used |
|----------------|-------------|------------------------|---------------------|-------------|--------------------|
| <u>13-3/8"</u> | <u>216</u>  | <u>225</u>             | <u>BJ 1 Plug</u>    |             |                    |
| <u>8-5/8"</u>  | <u>7140</u> | <u>550</u>             | <u>Howco 2 Plug</u> |             |                    |
| <u>9-5/8"</u>  |             |                        |                     |             |                    |

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

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

## DATES

Completed as shut in water source well \_\_\_\_\_ Put to producing well shut in \_\_\_\_\_, 19 \_\_\_\_\_

The production for the first 24 hours was \_\_\_\_\_ barrels of fluid of which \_\_\_\_\_% was oil; \_\_\_\_\_% emulsion; \_\_\_\_\_% water; and \_\_\_\_\_% sediment. 3258 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. \_\_\_\_\_

## EMPLOYEES

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

J. G. Binkley, Driller R. D. Cary, DrillerJ. D. Roe C. R. Lockhart

## FORMATION RECORD

| FROM—       | TO—         | TOTAL FEET  | FORMATION                             |
|-------------|-------------|-------------|---------------------------------------|
| <u>0</u>    | <u>216</u>  | <u>216</u>  | <u>Surface sand and shale</u>         |
| <u>216</u>  | <u>392</u>  | <u>176</u>  | <u>Ojo Alamo sand</u>                 |
| <u>392</u>  | <u>1407</u> | <u>1015</u> | <u>Kirtland sand and shale</u>        |
| <u>1407</u> | <u>1707</u> | <u>300</u>  | <u>Fruitland sand and shale</u>       |
| <u>1707</u> | <u>1890</u> | <u>183</u>  | <u>Pictured Cliffs sand and shale</u> |
| <u>1890</u> | <u>2622</u> | <u>732</u>  | <u>Lewis shale</u>                    |
| <u>2622</u> | <u>4485</u> | <u>1863</u> | <u>Mesaverde sand and shale</u>       |
| <u>4485</u> | <u>5364</u> | <u>879</u>  | <u>Mancos shale</u>                   |
| <u>5364</u> | <u>6205</u> | <u>841</u>  | <u>Gallup sand and shale</u>          |
| <u>6205</u> | <u>6296</u> | <u>91</u>   | <u>Greenhorn shale</u>                |
| <u>6296</u> | <u>6413</u> | <u>117</u>  | <u>Graneros sand and shale</u>        |
| <u>6413</u> | <u>6543</u> | <u>130</u>  | <u>Dakota sand and shale</u>          |
| <u>6543</u> | <u>7150</u> | <u>607</u>  | <u>Morrison sand and shale</u>        |



REF ID: A67193

LOG OF OIL OR GAS WELL

Y. H. Kuo, J. H. Kuo, J. H. Kuo, J. H. Kuo, J. H. Kuo

[illegible]

The company on this page is for the condition of the way to above date

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|       |       |          |       |    |       |          |
|-------|-------|----------|-------|----|-------|----------|
| ..... | 1000  | 1.5%     | ..... | 01 | ..... | mod 1.5% |
| ..... | 01    | .....    | ..... | 01 | ..... | mod 1.5% |
| ..... | ..... | mod 1.0% | ..... | 01 | ..... | mod 1.0% |

PORTAL WATER TREATMENT

10-11-68  
 10-12-68  
 10-13-68  
 10-14-68  
 10-15-68  
 10-16-68  
 10-17-68  
 10-18-68  
 10-19-68  
 10-20-68  
 10-21-68  
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 10-24-68  
 10-25-68  
 10-26-68  
 10-27-68  
 10-28-68  
 10-29-68  
 10-30-68  
 10-31-68

CONFIDENTIAL

[illegible]

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 "detached" 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

WILSON, JAMES EARL

[illegible]

BRITISH AIR FORCE

[illegible]

## SHOOTING RECORD

[illegible]

TOOLS USED

|         |                 |         |                 |
|---------|-----------------|---------|-----------------|
| of test | most have first | of test | most have first |
| of test | most have first | of test | most have first |

**ETAG**

100-443887-1000

CONFIDENTIAL

[illegible]