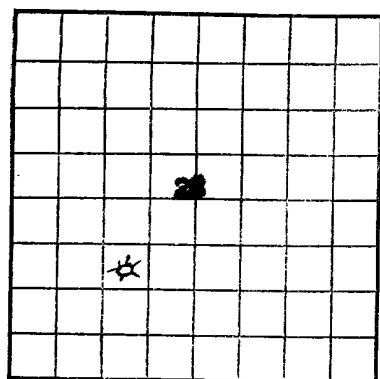
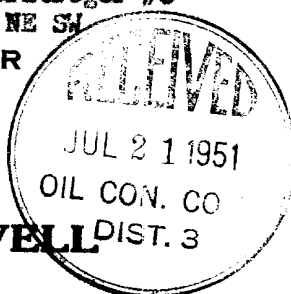




LOCATE WELL CORRECTLY

U. S. LAND OFFICE **SANTA FE**  
SERIAL NUMBER **080382-A**  
LEASE OR PERMIT TO PROSPECTUNITED STATES **Schwerdtfeger #6**  
**C SW NE SW**  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## LOG OF OIL OR GAS WELL

Company **The Frontier Refining Company** Address **410 Boston Building, Denver, Colo.**  
Lessor or Tract **Schwerdtfeger** Field **W. Kutz Canyon** State **New Mexico**  
Well No. **6** Sec. **28** T. **27N** R. **11W** Meridian **N.M.P.M.** County **San Juan** **62891 CC**  
Location **1650** ft. **(N.)** of **S** Line and **1650** ft. **(E.)** of **W** Line of **Section 28** Elevation **6288'** Grd.  
(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 **Dezman S. Galbraith**  
Date **July 17, 1951** Title **Dezman S. Galbraith, Geologist**

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

Commenced drilling **May 15, 1951** Finished drilling **May 21, 1951**

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **1851** to **1955 G** 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       | Amount      | Kind of shoe | Cut and pulled from | Perforated |     | Purpose           |
|---------------|-----------------|------------------|------------|-------------|--------------|---------------------|------------|-----|-------------------|
|               |                 |                  |            |             |              |                     | From—      | To— |                   |
| <b>9-5/8"</b> | <b>27.3</b>     | <b>4</b>         | <b>API</b> | <b>351</b>  |              |                     |            |     | <b>Surface</b>    |
| <b>5-1/2"</b> | <b>17.5</b>     | <b>4</b>         | <b>API</b> | <b>1825</b> |              |                     |            |     | <b>Production</b> |
| <b>1"</b>     | <b>11.2</b>     | <b>8</b>         | <b>API</b> | <b>1893</b> |              |                     |            |     | <b>Production</b> |

## MUDDING AND CEMENTING RECORD

| Size casing   | Where set       | Number sacks of cement | Method used | Mud gravity | Amount of mud used |
|---------------|-----------------|------------------------|-------------|-------------|--------------------|
| <b>9-5/8"</b> | <b>105' KB</b>  | <b>75 sacks</b>        | <b>plug</b> | <b>-</b>    | <b>-</b>           |
| <b>5-1/2"</b> | <b>1851' KB</b> | <b>150 sacks</b>       | <b>plug</b> | <b>-</b>    | <b>-</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 |
|-------------|------------|---------------------|-----------------|----------------|---------------------|-------------------|
| <b>4x30</b> |            | <b>Liquid Nitro</b> | <b>210 qts.</b> | <b>5/26/51</b> | <b>1858-1943 CC</b> | <b>1971 CC</b>    |

## TOOLS USED

Rotary tools were used from **0** feet to **1971** feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

## DATES

Completed **5-27-**, 19 **51** Put to producing **Shut in**, 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 **280,000** Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

Rock pressure, lbs. per sq. in. **465**

## EMPLOYEES

**Camden Drilling Company**, Driller \_\_\_\_\_, Driller  
**English Drilling Company**, Driller \_\_\_\_\_, Driller

## FORMATION RECORD

| FROM—        | TO—                                    | TOTAL FEET   | FORMATION                                                                 |
|--------------|----------------------------------------|--------------|---------------------------------------------------------------------------|
| <b>0</b>     | <b>740</b>                             | <b>740</b>   | <b>Sand and shale. Torrejon-Puerco at surface. Top Ojo Alamo at 740'.</b> |
| <b>740</b>   | <b>856</b>                             | <b>116</b>   | <b>Sand with some shale breaks. Top Kirtland shale at 856'.</b>           |
| <b>856</b>   | <b>1555 ?</b>                          | <b>699 ?</b> | <b>Shale with sand lenses. Top of Fruitland shale at 1555 (?).</b>        |
| <b>1555'</b> | <b>1835</b>                            | <b>280</b>   | <b>Shale with some sand streaks and coal. Pictured Cliffs at 1835'.</b>   |
| <b>1835</b>  | <b>1851</b>                            | <b>16</b>    | <b>Shale and coal. Top Pictured Cliffs sandstone at 1851'.</b>            |
| <b>1851</b>  | <b>1955</b>                            | <b>104</b>   | <b>Sand with shale streaks.</b>                                           |
| <b>1955</b>  | <b>1971</b>                            | <b>16</b>    | <b>Shale with some sand.</b>                                              |
|              | <b>TD 1971 CC</b><br><b>PB 1955 CC</b> |              |                                                                           |

(OVER)

FORMATION RECORD—Continued

