

U. S. LAND OFFICE Navajo  
SERIAL NUMBER 14-20-603-2034  
LEASE OR PERMIT TO PROSPECT \_\_\_\_\_UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Humble Oil & Refining Company Address Box 1268 - Farmington, New Mexico  
Lessor or Tract Navajo Tribe of Indians "P" Field Chimney Rock State New Mexico  
Well No. 4 Sec. 4 T. 11N R. 17W Meridian \_\_\_\_\_ County San Juan  
Location 1980 ft. N of 3 Line and 1980 ft. E of W Line of Section 4 Elevation 5279'  
(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 Russell M. Lilly  
Date March 9, 1959 Title Agent

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

Shot hole rig for surface 1-30-59  
Commenced drilling Rotary 2-8-59, 19\_\_\_\_ Finished drilling 2-11-59, 19\_\_\_\_

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1078' to 1074' 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 None 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—	
<u>7"</u>	<u>23#</u>	<u>SR</u>	<u>J-55</u>	<u>40'</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>Surface</u>
<u>4"</u>	<u>9.4#</u>	<u>SR</u>	<u>J-55</u>	<u>1153'</u>	<u>Blaker</u>	<u>-</u>	<u>1078</u>	<u>1094'</u>	<u>Prod.</u>
<u>2"</u>	<u>4.7#</u>	<u>SR</u>	<u>J-55</u>	<u>1512'</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>Tubing</u>

## MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>7"</u>	<u>42'</u>	<u>10</u>	<u>Dumped</u>	<u>-</u>	<u>-</u>
<u>4"</u>	<u>1131'</u>	<u>70</u>	<u>Pumped</u>	<u>Drid. w/air</u>	<u>-</u>

## PLUGS AND ADAPTERS

Heaving plug—Material None Length \_\_\_\_\_ Depth set \_\_\_\_\_  
Adapters—Material None Size \_\_\_\_\_

## SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
<u>None</u>						

## TOOLS USED

Rotary tools were used from 0 feet to 1153' TD feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

## DATES

March 5, 1959 Put to producing March 6, 1959The production for the first 24 hours was 77 barrels of fluid of which 100 % was oil; \_\_\_\_\_ % emulsion; \_\_\_\_\_ % water; and .2 % sediment. 008-156 Gravity, °Bé. 39.4 Corr.  
Pumping 15 - 20" 3PM, 1-1/2" pump If gas well, cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

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

## EMPLOYEES

R. W. Melnauff, Driller E. C. Farley, Driller  
W. H. Linge, Driller w/ H. B. Lynn Drig. Co., Driller

## FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>1153' TD</u>	<u>1153'</u>	<u>Sand &amp; Shale</u>

CORE NO. 1 from 1090' to 1115', cut 25', recovered 23-1/2':  
4' - Coarse grained glauconitic sand with fair oil show.  
19-1/2' - Brown to gray shale, very fossiliferous from 1111' to 1113-1/2'.

FORMATION TOPS  
Gallup - 1078'  
Sanassee - 1104'

**FORMATION RECORD—Continued**[illegible]

### HISTORY OF OIL OR GAS WELL

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 "sidetracked," 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.

A light shot-hole rig spudded 8-3/4" surface hole 3:00 PM, 1-30-59, drilled to 42' and set 1 joint 7" OD casing at 42'. Moved in rotary rig and drilled out from under 7" casing 6:30 PM, 2-8-59. Drilled with air to casing point, 1090'. Mudding up and cut one 25' core then drilled with mud from 1115' to 1153', TD. Ran logs. Set 4" casing (POM 11:20 PM, 2-11-59). Moved out rotary rig. Ran Gamma Ray & Collar logs. Perforated 4" casing 2-13-59 from 1078' to 1094' with 2 jet shots per foot. Spotted 200 gal. MCA on perforations. Sand-oil fraced through perforations with 20,000 gal. lease crude and 30,000# sand at average injection rate of 29.5 BPM at average pressure of 1600#. Moved in pulling unit and bailed sand from 1085' to 1127'. Ran 2" tubing to 1118'. Ran rods and pump, set pumping unit and started well pumping load oil 2-20-59. In 157 hours pumped back all load oil (623 bbls). Pumped 23 bbls new oil then started official production test as shown on reverse side. Completed as a top allowable pumping oil well 3-5-59.

**LSD/**

LOG OF OIL OF 072 METT

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DEPARTMENT OF THE INTERIOR  
UNITED STATES

REPORT OF THE COMMISSIONER OF THE GENERAL LAND OFFICE

SECRET

THE UNIVERSITY OF CHICAGO