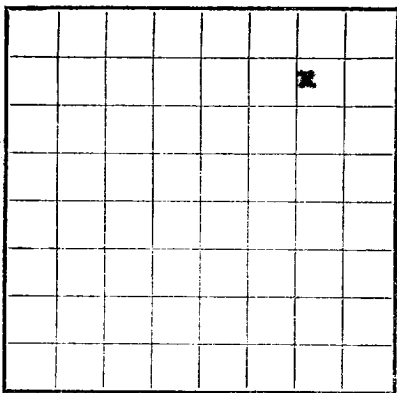


U. S. LAND OFFICE Jicarilla

SERIAL NUMBER _____

Co. LEASE OR PERMIT TO PROSPECT 166396
Contract No. 77

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company Humble Oil & Refining Company Address Box 1268, Farmington, N. M.
Lessor or Tract Jicarilla Apache Tribe Field Chero Pictured Cliffs State New Mexico
Well No. 4 Sec. 16 T. 23N R. 5W Meridian _____ County Rio Arriba
Location 990 ft. S. of _____ Line and 990 ft. W. of _____ Line of Section 16 Elevation 6632
(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 Title District Superintendent
Date May 22, 1957

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

Commenced drilling May 4, 1957 Finished drilling May 17, 1957

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2212 to 2260 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 2200 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>8-5/8"</u>	<u>28</u>	<u>8</u>	<u>CPM</u>	<u>154'</u>	<u>Ball.</u>				
<u>5-1/2"</u>	<u>24</u>	<u>8</u>	<u>CPM</u>	<u>2350'</u>	<u>Ball.</u>		<u>2212</u>	<u>2260</u>	<u>Production</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8-5/8"</u>	<u>157'</u>	<u>500</u>	<u>Pumped</u>	<u>9.06</u>	
<u>5-1/2"</u>	<u>2350'</u>	<u>275</u>	<u>Pumped</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
			<u>1100</u>			

TOOLS USED

Rotary tools were used from 161' feet to 2350' feet, and from _____ feet to _____ feet
Cable tools were used from 0 feet to 161' feet, and from _____ feet to _____ feet

DATES

Shut In - No PL connections
Put to producing May 17, 1957

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 2,521,000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 6634

EMPLOYEES

J. Sturdevant, Driller Joe Parra, Driller
P. J. Sturdevant, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>55</u>	<u>55</u>	<u>Sand</u>
<u>55</u>	<u>70</u>	<u>15</u>	<u>Shale</u>
<u>70</u>	<u>85</u>	<u>15</u>	<u>Gray & red shale</u>
<u>85</u>	<u>110</u>	<u>25</u>	<u>Shale & sandy shale</u>
<u>110</u>	<u>120</u>	<u>10</u>	<u>Shale</u>
<u>120</u>	<u>130</u>	<u>10</u>	<u>Sand</u>
<u>130</u>	<u>162</u>	<u>32</u>	<u>Shale</u>
<u>162</u>	<u>2360 TO</u>	<u>2198</u>	<u>Sand & shale</u>
			<u>Top of Pictured Cliffs at 2207'</u>

