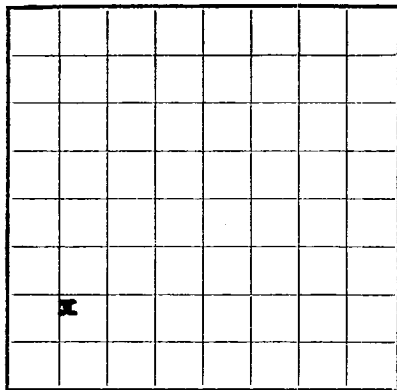




LOCATE WELL CORRECTLY

U. S. LAND OFFICE Jicarilla
SERIAL NUMBER Contract # 77
Co. LEASE OR PERMIT TO PROSPECT 166396UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Humble Oil & Refining Company Address Box 1268, Farmington, N. M.
Box 2180, Houston 1, Texas
Lessor or Tract Jicarilla Ap. Tr. Ind. Field Otero Pictured Cliffs New Mexico
Well No. 2 Sec. 9 T. 23N R. 5W Meridian - County Rio Arriba
Location 1140 ft. N. of 3 Line and 990 ft. E. of W Line of Section 9 Elevation 6624
xxxx xxx (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 July 19, 1956 Title Dist. Supt.

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

Commenced drilling July 6, 19 56 Finished drilling July 13, 19 56

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 6 2006 to 2033 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	
<u>8-5/8"</u>	<u>24</u>	<u>8R</u>	<u>CP&I</u>	<u>156</u>	<u>Hall.</u>				
<u>4-1/2"</u>	<u>11</u>	<u>8R</u>	<u>CP&I</u>	<u>2115</u>	<u>Hall.</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>167</u>	<u>150</u>	<u>Pumped</u>	<u>9.44</u>	
<u>4-1/2"</u>	<u>2114</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>None</u>				

TOOLS USED

Rotary tools were used from 0 feet to 2115 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

July 13, 19 56 Shut in — no pipeline
Put to producing connections _____, 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 2,574,000 Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. 750# S.I. T.P.

EMPLOYEES

E. L. Martin _____, Driller W. E. Wayman _____, Driller
A. F. Sample _____, Driller _____, Driller

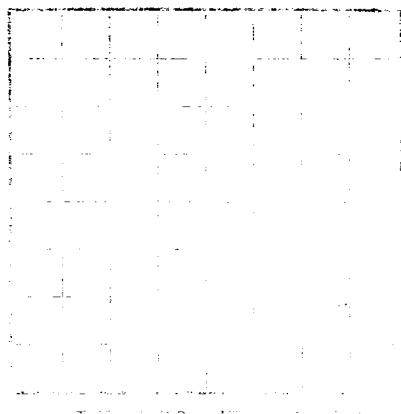
FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>174</u>	<u>174</u>	<u>Surface</u>
<u>174</u>	<u>2115 TD</u>	<u>1941</u>	<u>Sand & Shale</u>
			<u>Top of Pictured Cliffs at 2006'</u>

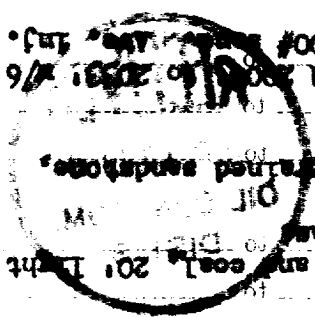
U. S. LAND OFFICE
SPECIAL INQUIRY
LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL



Well No. 1, located in the...
Casing 2 1/2" casing at 217' - 222'...
After 3 hour shut-down, produced gas at rate of 2574 MCFD.
Set 28 tubing and equipped well in... well picked off.
OIL OR GAS SANDS OR ZONES
Rate 42.2 bbls/min. at 1500'.
Set 2105' - 2125' casing at 217' - 222'...
Core #2 from 2020' to 2045' and recovered 26' light gray fine grained sandstone, very slightly bleeding gas in scattered zones.
Core #1 from 1984' to 2020' and recovered 36' - 16' black shale and coal, 20' light gray fine to medium grained sandstone, very slightly bleeding gas.



Set 156', 8-5/8" casing at 167' when 150' encountered.
This well was drilled to a total depth of 2335' with a completion depth of 2029'.
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.

HISTORY OF OIL OR GAS WELL

FROM -		TO -		TOTAL FEET		FORMATION	
2335'		2029'		306'		SANDSTONE	
2029'		1984'		45'		SHALE	
1984'		167'		1317'		SANDSTONE	
167'		0'		167'		SANDSTONE	
0'		0'		0'		SANDSTONE	