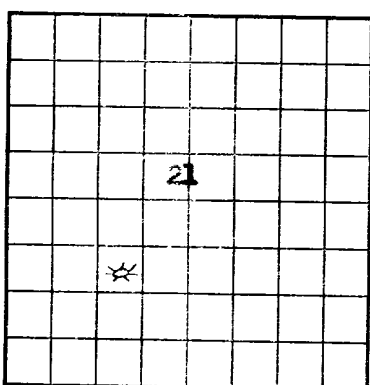




LOCATE WELL CORRECTLY

U. S. LAND OFFICE
SERIAL NUMBER 080382
LEASE OR PERMIT TO PROSPECTUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company The Frontier Refining Company Address 410 Boston Building, Denver, Colorado
Lessor or Tract Schwardtfeger Field N. Kutz Canyon State New Mexico
Well No. 5 Sec. 21 T. 27N R. 11W Meridian N.M.P.M. County San Juan 6290 CC
Location 1650 ft. (N.) of S Line and 1650 ft. (E.) of W Line of Section 21 Elevation 6289 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.

Date July 10, 1951 Signed [Signature] Title Geologist

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

Commenced drilling 5/16, 1951 Finished drilling 5/28, 1951

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1902 to 1958 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—	
<u>9-5/8"</u>	<u>29.3#</u>	<u>8rd.</u>		<u>75'</u>					<u>surface Production</u> <u>slipson</u>
<u>5-1/2"</u>	<u>16#</u>	<u>8rd.</u>		<u>1904'</u>					
<u>1"</u>	<u>1.7#</u>	<u>8rd.</u>		<u>1950'</u>					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>9-5/8"</u>	<u>75' rd</u>	<u>100 sacks</u>	<u>plug</u>	<u>-</u>	<u>-</u>
<u>5-1/2"</u>	<u>1900' rd</u>	<u>150 sacks</u>	<u>plug</u>	<u>-</u>	<u>-</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>4x20</u>	<u>5</u>	<u>Liquid Nitro</u>	<u>110 qts.</u>	<u>5/6/51</u>	<u>1926-1971</u>	<u>1970</u>
<u>4x10</u>	<u>1</u>					

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

5/6, 1951 Put to producing same day, 1951

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 1,400,000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Camden Drilling Company, Driller _____, Driller
English Drilling Company, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>1898</u>	<u>1898</u>	<u>Sand and shale. Torrejon-Puerco at surface. Top of Pictured Cliffs formation at 1898'.</u>
<u>1898</u>	<u>1906</u>	<u>8</u>	<u>Shale and coal. Top of Pictured Cliffs sandstone at 1906'.</u>
<u>1906</u>	<u>1971</u>	<u>65</u>	<u>Sand with shale stringers. Hole bottomed in Lewis shale.</u>
	<u>1971 TD</u>		

UNITED STATES DEPARTMENT OF JUSTICE
FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C. 20535

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of reworking, 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.

19-00000-1

FORMATION RECORD—Continued