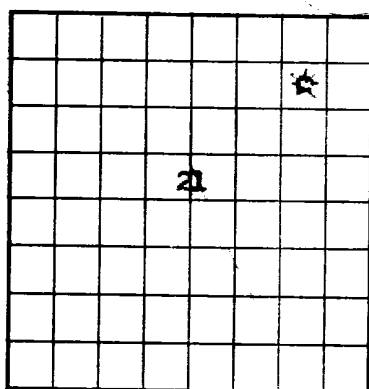




LOCATE WELL CORRECTLY

U. S. LAND OFFICE

SERIAL NUMBER 78872-1

LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company THE PACIFIC REFINING COMPANY Address 410 BOSTON BLVD., DENVER, COLO.
Lessor or Tract BLANK-GOVERNMENT Field SW ANTE CANYON State NEW MEXICO
Well No. 15 Sec. 21 T. 27N R. 11W Meridian N.T.P.M. County SA JUAN 6332' Grd.
Location 990 ft. S of N Line and 990 ft. W of E Line of Section 21 Elevation 6341' Grd.
(Denote flow 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 April 22, 1952Signed Norman S. Calbraith
Title Norman S. Calbraith, Geologist

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

Commenced drilling 1/2, 19 52 Finished drilling 1/5, 19 52

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1997 to 2088 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>8-5/8"</u>	<u>28 &</u>	<u>8rd.</u>	<u>10'</u>	<u>102'</u>					<u>Drill pipe</u>
<u>5-1/2"</u>	<u>11.4</u>	<u>8rd.</u>	<u>2000'</u>						<u>Drill pipe</u>
HISTORY OF OIL OR GAS SANDS									

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>111'KB</u>	<u>75 sacks</u>	<u>plug</u>		
<u>5-1/2"</u>	<u>2002'KB</u>	<u>75 sacks</u>	<u>plug</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>4 x 20</u>	<u>5 1/2</u>	<u>liquid nitro</u>	<u>110 lbs.</u>	<u>1/16/52</u>	<u>2044-80'KB</u>	<u>2088'KB</u>

TOOLS USED

Rotary tools were used from 0 feet to 2002 feet, and from _____ feet to _____ feet
Cable tools were used from 2002 feet to 2088 feet, and from _____ feet to _____ feet

DATES

Commenced 1/16, 19 52 Put to producing Jan 15, 19 52

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 62,000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 460

EMPLOYEES

Carden Drilling Company, Driller _____, Driller _____
English Drilling Company, Driller _____, Driller _____

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>1997</u>	<u>1997</u>	<u>Sand and shale with coal streaks near base. Corrahon-luenco at the surface. Top of</u>
<u>1997</u>	<u>2088</u>	<u>91</u>	<u>fractured cliffs sandstone at 1997'KB. Sand with shale breaks.</u>
	<u>2088'KB</u>	<u>0</u>	<u>(No electric log run)</u>

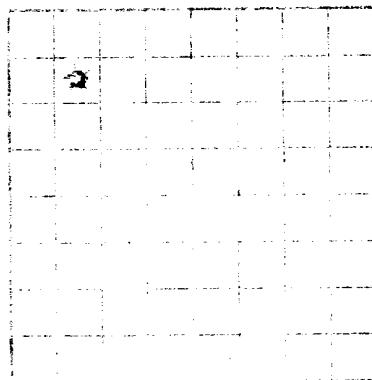
(OVER)

16-43004-2

FORMATION RECORD—Continued

UNITED STATES

THE UNIVERSITY OF CHICAGO
 LIBRARY
 540 EAST 58TH STREET
 CHICAGO, ILL. 60637

[illegible][illegible]

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

[illegible]