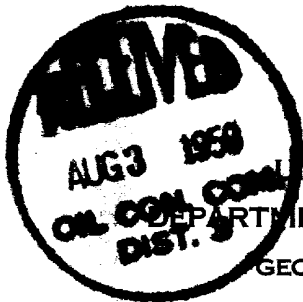
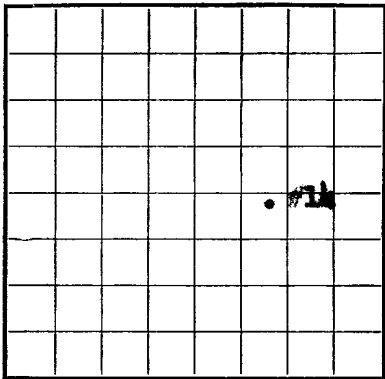


Sec. 14

INDIAN LAND

Budget Bureau No. 42-R-355.3.
Approval expires 12-31-55.U. S. LAND OFFICE Navajo Tribal
SERIAL NUMBER Contr. #14-20-603-2022
LEASE OR PERMIT TO PROSPECT
Navajo "A"

UNITED STATES

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED

JUL 31 1959

U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Magnolia Petroleum Company Address Box 2406, Hobbs, New Mexico
Lessor or Tract Navajo "A" Field Hermeshee Gallup State New Mexico
Well No. 14 Sec. 14 T. 31N R. 17W Meridian N 89° 56' W County San Juan
Location 1805 ft. ^N of S Line and 1935 ft. ^W of E Line of Section 14 Elevation 5928
(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

Date July 29, 1959Title District Superintendent

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

Commenced drilling July 2, 1959 Finished drilling July 6, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1580 to 1600 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—	
8-5/8"	26#	8RD	J-55	100'					Surface casg.
5-1/2"	11#	8RD	J-55	100'					1580-1600 ft. casing

HISTORY OF OIL OR GAS WELL

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	113'	100	Pump & Plug		
5-1/2"	1658'	100	Pump & Plug		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

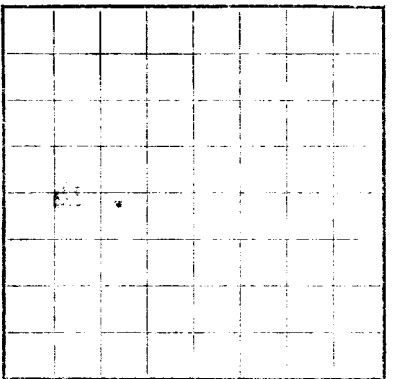
Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
See sand oil frac below						

TOOLS USED

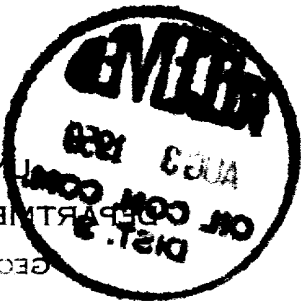
Rotary tools were used from 0 feet to 1658 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

July 19, 1959 Put to producing July 18, 1959
The production for the first 24 hours was 100 barrels of fluid of which 100 % was oil; _____ %
emulsion; _____ % water; and 2/10 % sediment. Gravity, °Bé. 41.6°
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. _____



LOCATE WELL CORRECTLY



RECEIVED
U.S. GEOLOGICAL SURVEY
DIST. 3
AUG 3 1953

LOG OF OIL OR GAS WELL

Company _____
Lessor or Tract _____
Well No. _____
Location _____
The information given herewith is a complete and correct record of the well and all work done thereon
Signed _____
Title _____
Date _____

The summary on this page is for the condition of the well at above date.
Commenced drilling _____
Finished drilling _____

OIL OR GAS SANDS OR ZONES

(Indicate zone by C)

No. 1, from _____ to _____
No. 2, from _____ to _____
No. 3, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____
No. 2, from _____ to _____

CASING RECORD

Casing size per foot	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From To	Purpose

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, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and reason for pumping or bailing.

HISTORY OF OIL OR GAS WELL

MUDDING AND CEMENTING RECORD

Casing size	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used

PLUGS AND ADAPTERS

Adapter plug—Material _____
Adapter—Material _____
Depth set _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from _____ foot to _____ foot and from _____ foot to _____ foot.
Cable tools were used from _____ foot to _____ foot and from _____ foot to _____ foot.

DATES

If gas well, cu. ft. per 24 hours _____
emulsion; _____% water; and _____% sediment.
The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____%
Put to producing _____
Gallons gasoline per 1,000 cu. ft. of gas _____
Gravity, _____°Bé.

LOG OF OIL OR GAS WELL
Navajo "A" #11 - Attachment

CORE RECORD

<u>No.</u>	<u>From</u>	<u>To</u>	<u>Rec.</u>	<u>Description</u>
1	1565	1623	58'	1565-71 - Shale sandy, N.S. 1571-75 - Sand, shaley, tight, trace stain. 1575-81 - Sand M-C grain, friable body stain & bleeding oil. 1581-1604 - Sand M-C gr., friable, good oil saturation. 1604-1606½ - Sand - M-C grain w/shale laminations 75% sand, good oil saturation. 1606½-23 - Shale dark gray, very fossiliferous w/few F-G gray sand laminations, N.S.

ACIDIZING OR OTHER COMPLETION OPERATIONS

Dowell started sand frac. Blender froze after 4200 gals oil + 5000# sand - break down 2600#, max. 3500#, min. 950# - 5 min. SI 0#. Clean out sand.

Dowell sand oil frac 20,000 gals ice crude and 35,000# 10-20 mesh sand, no break down. Pumped in 1000#, max. 1100#, min. 900#, 5 min. SI 50#, 10 min. 0#. Average injection 39 BPM. 9:30 a.m. 7-10-59.

SUMMARY OF OPERATIONS

6-23-59 Location.
7-1-59 Move in rotary.
7-2-59 Install 8-5/8" surface casing. Spudded.
7-3-59 Test 8-5/8" casing.
7-6-59 Install 5½" casing.
7-6-59 Schlumberger ran Sonic Log.
7-6-59 Test 5½" casing.
7-6-59 Schlumberger ran Induction Log.
7-7-59 Rig released 1 a.m.
7-9-59 Mercury ran Gamma Ray Log.
7-9-59 Move in Sayre Well Service Unit.
7-10-59 Dowell sand frac.
7-11-59 Move out Sayre Well Service Unit.
7-18-59 Put on NMOC potential test 5 p.m.
7-19-59 Completed NMOC potential test 5 p.m.