Form 9-330

Budget Bureau No. 42-R-355.3.
Approval expires 12-31-55.

Section 23

RECEIVED
JUL 20 1959
OIL CON. COM.
DIST. 3

U.S. LAND OFFICE Navajo Tribal
Contr. 7 14-20-603-1082
SERIAL NUMBER
LEASE OR PERMIT TO PROSPECT Tract #140
Navajo "A"

INDIAN LAND

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company Magnolia Petroleum Company Address Box 2406

Lessor or Tract Navajo "A" Field Horseshoe Gallup State New Mexico

Well No. 13 Sec. 23 T. 31N R 17W Meridian NMPM County San Juan

Location 660 ft. {N. / S.} of N Line and 585 ft. {E. / W.} of E Line of Sec. 23 Elevation 5932 (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 [signature]

Date July 21, 1959 Title District Superintendent

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

Commenced drilling 6-28, 1959 Finished drilling 7-1, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1580 to 1617 No. 4, from to

No. 2, from to No. 5, from to

No. 3, from to No. 6, from to

RECEIVED
JUL 27 1959
U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

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 From—	Perforated To—	Purpose
8 5/8	29#	8rd	L.N.	100'					Surface string
5 1/2	14#	8rd	J-55	1653'			1580	1617	Oil string

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 sks	Plug & pump		
5 1/2	1665'	100 sks	Plug & pump		

FOLD | MARK

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 below						

TOOLS USED

Rotary tools were used from 0 feet to 1665 feet, and from feet to feet

Cable tools were used from feet to feet, and from feet to feet

DATES

See below, 19 Put to producing 7-18, 19 59

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

Rock pressure, lbs. per sq. in.

EMPLOYEES

, Driller , Driller

, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION

FORMATION RECORD

Formation	Tops
Lower Gallup	1392
1st Sand	1478
2nd Sand	1580
Sanostee	1628

POTENTIAL TEST

Single oil well completion - Pumping
On potential test pumped thru perf 1580-1617 96 B/O 24 hrs 14-30" SPM 12# 1/8" plate 10.8 MCF GOR 105-1 - gr 41.5° @ 60° 2/10 BS&W allow 54 BOPD. Potential test completed 7-19-59.

PERFORATIONS

From	To	Kind
1580	1617	74 Jet shots (Western)

[OVER]

16—43094-3

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

HISTORY OF OIL OR GAS WELL

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.

16—43004-2 U. S. GOVERNMENT PRINTING OFFICE

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

UNITED STATES
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GEOLOGICAL SURVEY

ACIDIZING

Dowell sand oil frac perf 1580-1617 w/37000 gals lse crude + 74000# 10-20 mesh sand, break down 2000#, max treat 2700#, min treat 400#, 12,500 gals + 25,000# sand drop 20 balls, 800-2600-1600#, 10,000 gals lse crude + 20,000# sand + 20 balls 1500-2700-2400#. 5 min SI 0#, vac in 10 min, av inj 27 BPM.

SUMMARY OF OPERATIONS

6-23-59	Location staked
6-28-59	Commenced drlg operations (spud date).
6-28-59	Ran 8 5/8" csg.
6-29-59	Tested 8 5/8" csg.
7- 1-59	Schl ran Sonic & Induction logs
7- 1-59	Ran 5½" csg & tested
7- 1-59	Rig released
7 -3-59	The Western Co. ran Gammatron & perf 5½" csg.
7- 3-59	Dowell sand oil frac perf w/37000 gals lse crude + 74000# 10-20 mesh sand
7- 3-59	Moved in J. P. "Bum" Gibbins rig.
7- 4-59	Ran 2" tbg, rods & pump
7- 5-59	Released J. P. "Bum" Gibbins rig
7- 5-59	Installed pump unit
7-19-59	Potential test completed