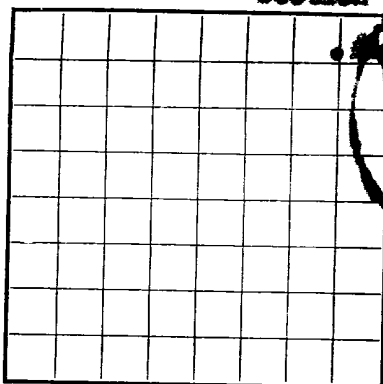
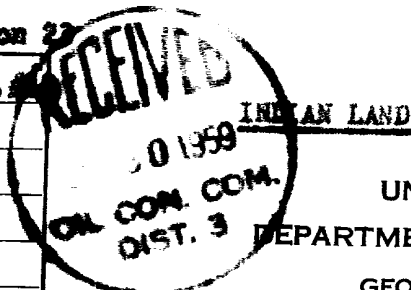


Section 23



LOCATE WELL CORRECTLY

U.S. LAND OFFICE Navajo Tribal
County: 7-11-10-001-1002
BORDER NO. 1002LEASE OR PERMIT TO PROSPECT Tract #140
Navajo "A"UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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. 11N R. 17W Meridian NMPM County San Juan
Location 660 ft. SW of N Line and 585 ft. SW 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

Date July 21, 1959Title 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 _____

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	29#	8VT	L.W.	100'					Surface string
5 1/2	14#	8VT	J-5	1652'			1580	1627	
HISTORY OF CUT OF CVD METT									

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

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 _____, 19____
The production for the first 24 hours was _____ barrels of fluid of which 7-18 % was oil; 59 %
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			
Lower Gallup			
1st Sand			
2nd Sand			
Sanostee			

FORMATION RECORD

Topo
1592
2178
1580
1628

POTENTIAL TEST

Single oil well completion - Pumping

On potential test pumped thru perf 1580-1617 96 B/C 24 hrs 14-30" GPM 12# 1/8" plate
10.8 MCF GOR 105-1 - gr 41.5° @ 60° 2/10 HSW allow 54 BOPD. Potential test completed
7-19-59.

PERFORATIONS

From 1580 To 1617 Kind 7/8 Jet shots (Western)

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, sv inj 27 B.M.

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 5 1/2" csg & tested
7- 1-59 Rig released
7- 3-59 The Western Co. ran Gammatron & perf 5 1/2" 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

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The concentration of the *Agrobacterium* suspension was 10⁶ cells/ml (○), 10⁷ cells/ml (□), 10⁸ cells/ml (△), 10⁹ cells/ml (◇), and 10¹⁰ cells/ml (●). The error bars represent the standard deviation of three independent experiments.

[illegible]

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

Number of hauls	<i>P. setiferus</i> (%)	<i>P. setiferus</i> + <i>P. setiferus</i> + <i>P. setiferus</i> (%)	<i>P. setiferus</i> + <i>P. setiferus</i> + <i>P. setiferus</i> (%)
1	100	100	100

1. The first of these is the fact that the	1-1-1
2. The second is the fact that the	1-1-2
3. The third is the fact that the	1-1-3
4. The fourth is the fact that the	1-1-4
5. The fifth is the fact that the	1-1-5
6. The sixth is the fact that the	1-1-6
7. The seventh is the fact that the	1-1-7
8. The eighth is the fact that the	1-1-8
9. The ninth is the fact that the	1-1-9
10. The tenth is the fact that the	1-1-10
11. The eleventh is the fact that the	1-1-11
12. The twelfth is the fact that the	1-1-12
13. The thirteenth is the fact that the	1-1-13
14. The fourteenth is the fact that the	1-1-14
15. The fifteenth is the fact that the	1-1-15
16. The sixteenth is the fact that the	1-1-16
17. The seventeenth is the fact that the	1-1-17
18. The eighteenth is the fact that the	1-1-18
19. The nineteenth is the fact that the	1-1-19
20. The twentieth is the fact that the	1-1-20