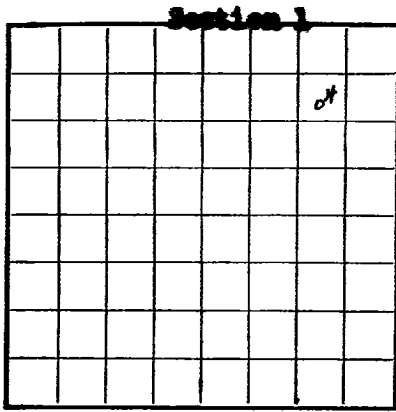




U. S. LAND OFFICE **Mescalito Tribal**
San Juan Co. N.M.
LEASE OR PERMIT TO PROSPECT
Mescalito "H"

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED

AUG 2 1957
GEOLOGICAL SURVEY
MEXICO

LOG OF OIL OR GAS WELL

Company **Magnolia Petroleum Company** Address **Box 633 Midland, Texas**
Lessor or Tract **Mescalito "H"** Field **Undesignated** State **New Mexico**
Well No. **4** Sec. **1** T. **26N** R. **3W** Meridian **N.M.P.M.** County **El Arriba**
Location **990 ft. [N.] of [S.] Line and 990 ft. [E.] of [W.] Line of Section 1** Elevation **7174**
(Denote gas by G)

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 **August 21, 1957** Signed **R. T. GEMAN** Title **Division Superintendent**

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

Commenced drilling **June 6**, 19**57** Finished drilling **July 10**, 19**57**

OIL OR GAS SANDS OR ZONES

No. 1, from ********* to ********* 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 **320'** to **500'** No. 3, from **2000'** to **2200'**
No. 2, from **610'** to **1475'** No. 4, from **2600'** to **2690'**

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated	Purpose
							From— To—	
10-3/4"	32.75	8-RT	Ingalls	306'				Intermediate
7-5/8"	20.60	8-RT	Ingalls	6100'				Intermediate
7-5/8"	20.60	8-RT	Ingalls	6100'				Intermediate
7-5/8"	15.5	8-RT	Ingalls	100'				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4"	306'	125	Pump & Plug		
7-5/8"	6100'	100	Pump & Plug	45	43,298 lbs.
7-5/8"	6100'	300	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
***	***	*****	*****	**	*****	*****
***	***	*****	*****	**	*****	*****
***	***	*****	*****	**	*****	*****

TOOLS USED

Rotary tools were used from **0** feet to **6115** feet, and from ******* feet to ******* feet
Cable tools were used from ********* feet to ********* feet, and from ********* feet to ********* feet

DATES

August 21, 19**57** Put to producing **July 28**, 19**57**
The production for the first 24 hours was **0** barrels of fluid of which **0**% was oil; **0**%
emulsion; **0**% water; and **0**% sediment. Gravity, °Bé. **0**

If gas well, cu. ft. per 24 hours **2107 MCF** Gallons gasoline per 1,000 cu. ft. of gas **No Test**

Rock pressure, lbs. per sq. in. **156 #**

EMPLOYEES

Paul F. Rutledge, Driller **SICP-1565 PSI - MV**, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
3304	3488	184	OJO Alamo
3488	3728	240	Kirtland Fruitland
3728	3824	96	Pictured Cliffs
3824	5510	1686	Lords
5510	5560	50	Cliff House
5560	5890	330	Manatee
5890	6030	140	Point Lookout
6030	6115	85	Mancus

- 6-6-57** Spudded
6-10-57 Set 10-3/4" Casing on bottom with 125 sx cement. Moved in larger Rotary.
6-14-57 Down 12 hrs. Drill Pipe stuck @ 870'. Circulating oil to free Pipe;
6-18-57 Freed Stuck drill Pipe 6 hrs.
6-20-57 Run elec. logs to run 7-5/8" Casing.
6-21-57 Set 7-5/8" casing on bottom with 100 sx cement. Circulated.
6-26-57 Ran 2662' of 5 1/2" Liner @ 6100' with 200 sx cement. Liner stopped @ 6100'4
6-27-57 Drilled out ret. @ 5391'. Cemented over: top of 5 1/2" Liner with 100 sx cement.
6-28-57 Drilled out cement. in 5 1/2" liner to 6068' FB.TD.. Ran elec. logs Prep. to Perf.
7-1-57 Perf. 5 1/2" Liner in Point Lookout 5912-5917', 5932'-38', 5944-49', 5953-69'
6004'-6008' & 6018-6023'. Sandwaterfracs all perf. with 38,000 Gals. CP-2800#.
Using 150 rubber balls. flow back 30 BLW 30 min. Jetted 900 BLW 46 hrs. @
6040'. Gas at rate of 624 MCF per day. Lack 800 BLW.
7-2-57 From 5 sets Point Lookout Perf. Jetted 3 BLW 4 hrs. Pulled 2" tbg perf. 5 1/2"
liner in Manatee from 5690'-5665', 5698'-5710', 5791-5794' & 5799-5803'.
Set Bridge Plug @ 5820' Sandwaterfracs with 34,000 gals. CP-3000#.. Flow back
LEO#5 BLW 3 hrs. Ran 2" tbg. Jetting 300 W/Gas. LOWAVATOL 10-4000-4
- 7-3-57** From 4 sets Manatee Perf. Jetted 200 BLW 24 hrs. Jetting 300 BLW 24 hrs. 1075 BLW.
7-5-57 From 4 sets Manatee Perf. Jetted 6 BLW 6 hrs. Pulled tbg. & Bridge Plug @ 5820'.
Perf. 5 1/2" Liner in Cliffhouse 5536-5539', 5545-5552', 5561-5565', 5571-5576',
5586-5593', & 5602-5613'. Set Bridge Plug @ 5625'. Sandwater-fracs perf. with
36,000 Gals. CP-3000#. Ran 2" tbg Jetted 300 BLW 27 hrs. at 5600'. 2 bbls per hr.
Gas vol. 36 MCF per day.
7-8-57 From 6 sets Cliff house perf. after 36,000 gals. Sandwaterfracs jetted 20 BLW 24
hrs. @ 5600'. Perf. Pictured Cliffs 3737-3745', 3757-3761', 3781-3786',
3790'-3796', 3801-3818', Sandwaterfracs perf. 40,000 Gals. CP-875#. Using 180
rubber balls. Jetted 700 BLW 24 hrs. Jetting @ 3800'. Lack 430 BLW.
7-9-57 From 5 sets Pictured Cliffs Perf. after 40,000 Gals. waterfracs Jet 100 BLW 24 hrs.
@ 3800'. Lack 330 BLW. No Gas.
7-10-57 From Pictured Cliffs Perf. Jetted 200 BLW 12 hrs. No gas. Pulled B.P. @ 3840'.
Set Prod. Pkr. @ 5515' Ran 2" tbg. Mesa Verde, 4 gas Lift valves. Running
Pictured Cliffs. Tbg for completion.
7-11-57 Ran Pictured Cliffs Tbg. Rig released 12 noon 7-10-57.
7-12-57 Shut in wait on gas line.
7-15-57 From all perf. Gas lift 240 BLW 48 hrs.
7-16-57 Pictured Cliffs shut in. From 16 sets Mesa Verde Perf. flow 50 BLW 20 hrs.
7-19-57 From 16 sets Mesa Verde perf. flow at rate of 1375 MCF per day, 5 sets Pictured
cliffs. Gas insufficient to measure.
7-22-57 6115 TD. 16 Sets Mesa Verde perfs. Shut in 12 hrs. After 30 min. Blow down,
gas Vol. 3580-MCF per day. 5 sets Pictured Cliffs perfs. shut in 12 hrs.
After 30 min. Blow down Gas Vol. 1519 MCF per day. Both zones shut in for
gas potential.
7-29-57 Mesa Verde Potential test, after 7 days shut in. TP-1565#. Flow 3 hrs 3/4 ch.
At end of 3 hrs. Flow gas at rate of 2107 MCF per day. TP-158#. Calculated
Absolute open flow 2389 MCF per day. Completed 7-7-57. Pictured Cliffs after
7 days shut in CP-829#. TP-829#. Flow 3/4" ch. 1 hr. 15 min. Died. Shut in.
8-1-57 Mesa Verde shut in. Pictured Cliffs Jetted 50 BLW 12 hrs.
8-5-57 Mesa Verde shut in 5 sets pictured cliffs, Jetted 48 BLW 2" ch. W/gas. 48 hrs.
8-12-57 6115' TD. Mesa Verde was completed 7-28-57. Pictured Cliffs Temp orally abnd.