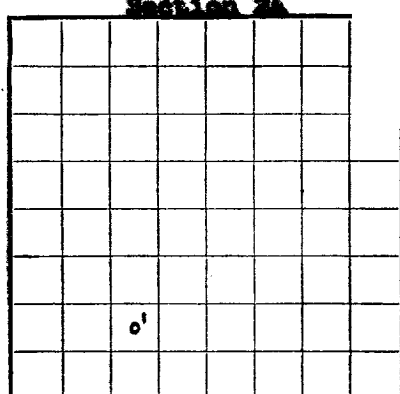


Section 24



LOCATE WELL CORRECTLY

ILLECIBLE

U. S. LAND OFFICE **Jicarilla Tribal**
SERIAL NUMBER **Contr. #99, Tr. 190**
LEASE OR PERMIT TO PROSPECT **Jicarilla #P**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company **Magnolia Petroleum Company** Address **P. O. Box 633, Midland, Texas**
Lessor or Tract **Jicarilla "P"** Field **Undesignated Pictured** State **New Mexico**
Well No. **1** Sec. **24** T. **26N** R. **3W** Meridian **N.M.P.M.** County **Rio Arriba** (Est)
Location **990** ft. **N.** of **8** Line and **1690** ft. **E.** of **W** Line of **Section 24** Elevation **7431**
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 **R. T. GERMAN**
Date **September 7, 1956** Title **Division Superintendent**

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

Commenced drilling **July 11, 1956** Finished drilling **August 1, 1956**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **3436'** to **3908' G** No. 4, from _____ to _____
No. 2, from **5586'** to **6098' G** No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from **N. M. S.** 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—	
10-3/4"	32.75	8RT	H40	263'					
7-5/8"	24.4	8RT	H40	417'					
5-1/2"	14.5	8RT	H40	5760'					
5-1/2"	15.50	8RT	H40	5760'			5586'	6090'	Open Formation

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4"	263'	200 sx.	Circulated		
7-5/8"	417'	150 sx.	Pump & Plug	1.14	117 bbls.
5-1/2"	6170'	300 sx.	Pump & Plug	1.405	12 bbls.

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 _____ feet to **6170' (TD)** feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Well was placed on Potential Test **Shut-In, waiting on**
& then Shut-In **sale of gas**
The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. **65**
If gas well, cu. ft. per 24 hours **5190 MCFPD Pictured Cliff** Gallons gasoline per 1,000 cu. ft. of gas **No test**
Rock pressure, lbs. per sq. in. **1231 MCFPD Mesa Verde**
(TP 1048 CP 1046 Pictured Cliff)
(TP 1547 Mesa Verde)

King Drilling Company _____, Driller
2508 Mosman Drive _____, Driller
Farmington, New Mexico

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
3488'	3675'	187'	QJO Alamo
3675'	3832'	157'	Kirtland Fruitland
3832'	5567'	1735'	Pictured Cliff
5567'	5950'	383'	Cliff House
5950'	6143'	193'	Point Lookout
6143'	6170' (TD)	27'	Mansu

SUMMARY OF OPERATIONS

- 7-11-56 Spudded.
7-13-56 Set 10-3/4" casing on bottom @ 263' with 200 sx. cement, circulated, tested with 800# for 30 min before & after drilling plug, tested OK, no break.
7-23-56 Set 7-5/8" casing on bottom @ 417' with 150 sx cement, Temp. Survey, top of cement @ 3250', tested with 1000# for 30 min before drilling plugs and tested with 500# for 30 min after drilling plugs, tested OK, no break.
8-3-56 Set 2159' of 5-1/2" liner on bottom @ 6170' with 300 sx cement, 150 sx cement on bottom, Temp. Survey, top of cement @ 5760', Squeezed top of liner with 150 sx cement, Temp. Survey bottom of cement @ 4960'. Tested with 1000# after drilling plug, tested OK, no break.
8-6-56 Drilled out plug & cement in 5-1/2" liner to 6136' Plug Back Total Depth. Perforated 5-1/2" liner 5620' with 2 shots. Set Retainer @ 5562'. Squeezed perf. with 50 sx, 2000#.
8-8-56 Drilled out cement @ 5620'. Tested perf. 5620' with 1000#, 30 min, OK.
8-9-56 Perf. 5-1/2" liner 5957-5992', 6036-6053', 6071-6090' with 6 shots per ft.
8-10-56 Sand-water-frac perf. 5957-5992', 6036-6053' & 6071-6090' with 60,000 gals. CP 1500-1600#. 30 min Shut-In press. 400#. Flow 700 BLW 2 hrs, open 2" tubing, died. Perf 5-1/2" liner 5604-5619' & 5586-5594' with 6 shots per ft. Set Retrievable Bridge Plug @ 5689'.
8-13-56 Sand-water-frac perf 5586-5594' & 5604-5619' with 40,000 gals. CP 1400-1500#. Shut-In CP 600#. Flow 700 BLW 3 hrs thru open 2" tubing, died. Pulled Bridge Plug @ 5689'. Ran tubing & packer. From all perf, swab 550 BLW 42 hrs, good show gas, 5400' FIH. Lack 1632 BLW.
8-14-56 Swab 362 BLW in 24 hrs, kicking behind swab. Lack 1270 BLW.
8-15-56 From all perf, flow 250 BLW 24 hrs open 2" tubing. Lack 1020 BLW.
8-16-56 From all perf, flow estimated 40 BLW in 24 hrs, cut with 10% oil, gravity 40, thru open 2" tubing, gas at rate of 970 MCF per day. Lack 980 BLW.
8-17-56 Killed well, pulled tubing. Perf 7-5/8" casing 3896-3908' & 3836-3866', Pictured Cliff, with 6 shots per ft.
8-20-56 Set Bridge Plug @ 4031', sand-water-frac perf, 3836-3866' & 3896-3908' with 40,000 gals. CP 750-1050#. Shut-In 1 hr. Press 0#. Flow 15 BLW 10 min, died. Pulled bridge plug @ 4031'. Set Prod. Packer. Ran dual tubing string. Lack 1700 BLW from Pictured Cliff perf and lack 1300 BLW from Mesa Verde perf. Moved off rig and moved in swab perf.
8-22-56 From Mesa Verde Perf., swab 60 BLW 10 hrs, slight show gas, 5900' FIH, last hr swab 6 BLW. Lack 1240 BLW.
8-23-56 From Mesa Verde perf, swab 300 BLW 24 hrs, good show gas, 600' FIH.
8-24-56 From Mesa Verde perf, swab & flow 75 BLW 16 hrs, open 2" tubing, died. From Pictured Cliff perf, swab 50 BLW 7 hrs, slight show of gas, 1500' FIH, lack 1550 BLW.
8-27-56 From Pictured Cliff, swab & flow 300 BLW 24 hrs, gas at rate of 2415 MCFPD. Shut in for gas Potential 8-25-56. Lack 1350 BLW from Pictured Cliff. From Mesa Verde Swab & flow 110 BLW 17 hrs, gas at rate of 700 MCFPD, heading. Lack 755 BLW. Flow 130 BLW 13 BNO 48 hrs thru open 2". Gas at rate of 870 MCFPD. Gravity of oil 40. Lack 625 BLW, flowing 2 bbls per hr.
8-28-56 From Mesa Verde Perf, flow 30 BLW 3 BNO 24 hrs thru open 2" tubing, gas at rate of 750 MCFPD. Shut in for Gas Potential 8-28-56. Lack 495 BLW.
9-4-56 After 9 days Shut-In, from Pictured Cliff, TP 1048#, CP 1046#. After 3 hrs blow down flow gas at rate of 4170 MCF per day on 3/4" ch. TP 271#. CP 602#. Calculated absolute open flow 5910 MCF per day. Completed 8-17-56.
9-5-56 From Mesa Verde, after 7 days Shut-In, TP 1547#. Blow down 3 hrs thru open 2" tubing, at end of 3 hrs, gas Vol. 1231 MCF per day, good spray of oil. Completed 8-17-56.