

Jicarilla Tribal
U. S. LAND OFFICE
SERIAL NUMBER **Contr. #96, Tr. 185**
LEASE OR PERMIT TO PROSPECT **Jicarilla #1**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company **Magnolia Petroleum Company** Address **P. O. Box 633, Midland, Texas**
Lessor or Tract **Jicarilla #1** Field **Cliff Gas Pool** State **New Mexico**
Well No. **1** Sec. **11** T. **26N** R. **3W** Meridian **N.M.P.M.** County **Rio Arriba** (Est)
Location **1650** ft. **N.** of **N** Line and **990** ft. **N.** of **E** Line of **Section 11** Elevation **7074'**
(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.

Date **September 7, 1956** Signed **R. T. GIBSON** Title **Division Superintendent**

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

Commenced drilling **June 23**, 19**56** Finished drilling **July 30**, 19**56**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **3585** to **3676' G** No. 4, from _____ to _____
No. 2, from **5386** to **5482' G** No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from **None** 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	ART	HALO	318'					
7-5/8"	24	ART	HALO	328'					
7-5/8"	24	ART	HALO	328'					
5-1/2"	13.50	ART	J55	240'			5386	5482'	

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4"	318'	200 sx.	Circulated		
7-5/8"	3287'	150 sx.	Pump & Plug	1.21	93 bbls.
5-1/2"	5965'	250 sx.	Pump & Plug	1.12	11 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 **0** feet to **5965' (TD)** feet, and from _____ feet to _____ feet
Cable tools were used from **None** feet to _____ feet, and from _____ feet to _____ feet

DATES

Well was placed on Potential test **Shut-In, waiting on**
& then Shut-In _____, 19____ Put to producing **sale of gas** _____, 19____

The production for the first 24 hours was **0** barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. **.65**

If gas well, cu. ft. per 24 hours **9340 MCFD Pictured Cliff** Gallons gasoline per 1,000 cu. ft. of gas **No test**

Rock pressure, lbs. per sq. in. **(TP 3794 CP 6912 Pictured Cliff)**
(TP 17004 Mesa Verde)

Fleeger-Kiley Drilling Company Driller _____, Driller
721 Meadows Building _____, Driller
Dallas, Texas

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
3174'	3384'	210'	OJO Alamo
3384'	3581'	197'	Kirtland Fruitland
3581'	5384'	1803'	Pictured Cliff
5384'	5436'	52'	Cliff House
5436'	5743'	307'	Mesa Verde
5743'	5893'	150'	Point Lookout
5893'	5965' (TD)	72'	Mancos

SUMMARY OF OPERATIONS

- 6-23-56 Spudded.
6-25-56 Set 10-3/4" casing on bottom at 318' with 200 sx cement, circulated, tested with 800# for 30 min before drilling plug, tested OK, no break.
7-11-56 Set 7-5/8" casing on bottom at 3287' with 150 sx cement, temp survey top cement at 2580', tested with 1000# for 30 min before and after drilling plug, tested OK, no break. bottom @ 5965'.
8-6-56 Set 2138' of 5-1/2" liner on bottom with 100 sx cement / Top of liner at 3827'. Temp. Survey top cement at 5352'. Set Retainer @ 3772'. Squeezed top of liner @ 3827' with 150 sx cement, 1000#. Drilled out cement 3700-4000'. Ran temp. Survey, top cement at 4610'. Tested with 1000# for 30 min before and after drilling plug, tested OK, no break.
8-7-56 Drilled out plug in 5-1/2" liner to 5925' Plug Back Total Depth. Gave to water. Ran Elec. logs.
8-8-56 Perforated 5-1/2" liner 5872-5882', 5850-5857', 5830-5840' with 6 shots per ft. Perf. 5781-5792' with 4 shots per ft.
8-9-56 Repaired 5-1/2" liner 5781-5792' with 2 shots per ft. Perf. 5746-5781' with 6 shots per ft. Sand-water-free all perf with 60,000 gals. CP 1000-1500#. Perf. 5-1/2" liner 5386-5399', 5408-5419' & 5426-5434' with 6 shots per ft. Set Ret. Bridge Plug at 5439'.
8-13-56 Sand-water-free perf. 5386-5399', 5408-5419' & 5426-5434' with 40,000 gals. CP 1500-1500#. 5 min SIP 400#, flow 750 BLW 3 hrs open 2" ch. Pulled Bridge Plug at 5449'. Ran tubing & packer. From all perf. swab 150 BLW 28 hrs, no gas, 5700' FIH. Lack 2863 BLW.
8-14-56 Swab 60 BLW 2-1/2 hrs, 4500' FIH, no gas, lack 2800 BLW.
8-15-56 Swab & flow 360 BLW 24 hrs thru open 2", last hr flow 5 BLW, lack 2440 BLW, good show gas.
8-16-56 From all perf, flow estimated 90 BLW thru open 2" tubing in 24 hrs, had spray of oil, flowed gas at rate of 4027 MCF per day. Lack 2230 BLW.
8-17-56 Killed well with water. Pulled tubing & packer. Perf 7-5/8" casing 3651-3676', 3605-3622' & 3585-3596' with 6 shots per ft. Set Bridge Plug at 3841'.
8-20-56 Sand-water-free perf 3585-3596', 3605-3622' & 3651-3676' with 50,000 gals. CP 750-1150#. 5 hrs SIP 450#. Pulled bridge plug @ 3841'. Set Prod. packer. Lack 3000 BLW from Mesa Verde & 1800 BLW from Pictured Cliff.
8-21-56 Ran dual string of tubing. Moved off rig and moved in Swab Unit.
8-22-56 From Mesa Verde Perf, swab 40 BLW 8 hrs, slight show gas, 5700' FIH, last hr swab 5 BLW. Lack 2960 BLW.
8-23-56 From Mesa Verde Perf, swab & flow 200 BLW 11 hrs. Shut-in 13 hrs. From Pictured Cliffs Perf, swab 200 BLW 13 hrs, good show gas, 2600' FIH. Lack 1600 BLW from Pictured Cliff & 2760 BLW from Mesa Verde.
8-24-56 From Pictured Cliff perf, swab & flow 225 BLW 24 hrs thru open 2" tubing. Flowing 5 bbls per hr, gas at rate of 3800 MCF per day. From 7 sets Mesa Verde perf, after 10 hrs shut-in, flow 100 BLW 14 hrs thru open 2" tubing. Flowing 6 BLW per hr. with gas at rate of 3050 MCF per day. Lack 1375 BLW from Pictured Cliff and 2660 BLW from Mesa Verde.
8-27-56 From Pictured Cliff perf, flow 50 BLW 24 hrs, gas at rate of 3370 MCF per day. Shut-in for Gas Potential, lack 1325 BLW. From Mesa Verde Perf, flow 160 BLW 24 hrs thru open 2" tubing, gas at rate of 2860 MCF per day. Shut-in for Gas Potential 8-25-56. Lack 2900 BLW.
9-4-56 From Pictured Cliff Perf, after 8 days Shut-in, TP 1031#. CP 1030#. After 3 hrs blow down, flow gas at rate of 5610 MCF per day on 3/4" ch. TP 379#. CP 691#. Calculated open flow 9340 MCF per day. From Mesa Verde perf, after

