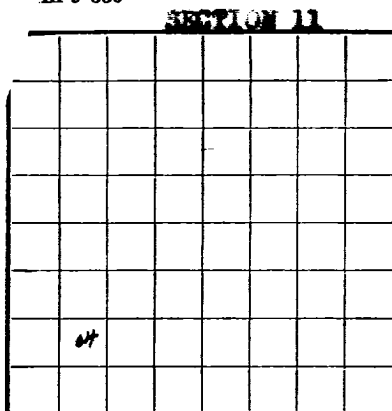


U. S. LAND OFFICE **Jicarilla Tribal**  
SERIAL NUMBER **Contr. # 89, Tr. 178**  
LEASE OR PERMIT TO PROSPECT  
**Jicarilla "E"**

LOCATE WELL CORRECTLY

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 "E"** Field **Blanco** State **New Mexico**  
Well No. **4** Sec. **11 T. 27N. R. 3-W.** Meridian **N.M.P.M.** County **Alameda**  
Location **990 ft. [N.] of [S.] Line and 990 ft. [E.] of [W.] Line of Sec. 11** Elevation **6970'**  
(Derrick base 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 **F. J. [Signature]**Date **November 18, 1957**Title **A.T. GERMAN**  
**Division Superintendent**

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

Commenced drilling **September 26**, 19 **57** Finished drilling **October 20**, 19 **57**

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **3675** to **3761** No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from **5577** to **6034** 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—	
<b>10-3/4</b>	<b>32.75</b>	<b>8 KT</b>	<b>Ingalls</b>	<b>294'</b>					<b>Surface</b>
<b>7-5/8</b>	<b>26.40</b>	<b>8 KT</b>	<b>Ingalls</b>	<b>3675-3761</b>					<b>Intermediate</b>
<b>5-1/2</b>	<b>19.50</b>	<b>8 KT</b>	<b>Ingalls</b>	<b>5577-6034</b>					<b>Production</b>
<b>HYDROLOGICAL DATA</b>									

## MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<b>10-3/4</b>	<b>295'</b>	<b>250</b>	<b>Pump &amp; Plug</b>		
<b>7-5/8</b>	<b>4072'</b>	<b>175</b>	<b>Pump &amp; Plug</b>	<b>49</b>	<b>44,070 lbs.</b>
<b>5-1/2</b>	<b>6110'</b>	<b>375</b>	<b>Pump &amp; Plug</b>		

## 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
<b>***</b>	<b>***</b>	<b>***</b>	<b>***</b>	<b>***</b>	<b>***</b>	<b>***</b>
<b>***</b>	<b>***</b>	<b>***</b>	<b>***</b>	<b>***</b>	<b>***</b>	<b>***</b>

## TOOLS USED

Rotary tools were used from **0** feet to **6110** feet, and from **\*\*\*\*\*** feet to **\*\*\*** feet  
Cable tools were used from **\*\*\*\*\*** feet to **\*\*\*\*\*** feet, and from **\*\*\*\*\*** feet to **\*\*\*\*\*** feet

## DATES

November 18, 19 **57** Put to producing November 8, 19 **57**  
The production for the first 24 hours was **0** barrels of fluid **0** % water, **0** %  
emulsion; **0** % water; and **0** % sediment. Gravity, °Bé. \_\_\_\_\_If gas well, cu. ft. per 24 hours **4449 MCF per day** Gallons gasoline per 1,000 cu. ft. of gas **no test**Rock pressure, lbs. per sq. in. **322 #**

## EMPLOYEES

**PAUL F. RUTLEDGE**, Driller \_\_\_\_\_, Driller  
\_\_\_\_\_, Driller \_\_\_\_\_, Driller

## FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<b>3242</b>	<b>3422</b>	<b>180</b>	<b>Ojo Alamo</b>
<b>3422</b>	<b>3672</b>	<b>250</b>	<b>Midland Fruitland</b>
<b>3672</b>	<b>3886</b>	<b>214</b>	<b>Pictured Cliffs</b>
<b>3886</b>	<b>5545</b>	<b>1659</b>	<b>Lewis</b>
<b>5545</b>	<b>5604</b>	<b>59</b>	<b>Cliff House</b>
<b>5604</b>	<b>5868</b>	<b>264</b>	<b>Monafee</b>
<b>5868</b>	<b>6034</b>	<b>166</b>	<b>Point Lookout</b>
<b>6034</b>	<b>6110</b>	<b>76</b>	<b>Mancos</b>

## SUMMARY

9-26-57 Spudded.  
9-27-57 WOC 10-3/4" Casing on bottom with 250 sx.  
10-8-57 WOC 7-5/8" Casing on bottom with 175 sx.  
10-14-57 WOC on 2238' of 5 1/2" Liner on bottom. Top of liner @ 3872'. Cemented with 175 sx. Waited on 5 1/2" liner 24 hrs. on account of trucks not being able to pull.  
10-15-57 WOC after cementing over top of 5 1/2" Liner with 100 sx. Repare to recement over top of Liner.  
10-16-57 WOC 8 hrs on 5 1/2" Liner. Prep to drill plug in 5 1/2" Liner.  
10-17-57 Washed out in 5 1/2" Liner to 6078'. Ren. to perforate.  
10-18-57 Perf. 5 1/2" Liner 5577-83', 5586-5603', 5746-54', & 5899-5909', 5913-17', 5922-34', 5962-86', 5979-96', 5979-96', 6001-6006', 6018-21', 6024-29', 6031'-34'. Prep. to Sandwaterfracs.  
10-21-57 Pump 175 BLW in 12 hrs. Gas at rate of 2934 MCF per day. Load 2025 BLW. Loaded hole with wtr. Perf. 3675-86', 3698-3704', 3712-17', 3730-35', 3743-47', 3753-61' with 6 shots per ft. Set BP @ 3878'. Sandwaterfracs P.C. perf. with 40,000 Gals and 200 balls. Flow 150 BLW and died.

[OVER]

16-48094-4

10-22-57 From Pictured Cliffs, Jetted 100 BLW 24 hrs. Gas at rate of 285 MCF per day. Prep. to Pull plug. Wait on weather.  
10-23-57 Loaded hole, Pulled Bridge Plug @ 3878'. Ran 2" Tbg. & Pkr. Prep. to run 2" tbg & Gas Lift Valves to Complete.  
10-24-57 Ran 2" Mesa Verde tbg & 4 Gas Lift Valves to 5577', ran 2" Pictured Cliffs tbg to 3683', Released rig 10-23-57.  
10-28-57 Shut in 48 hrs. Moved off Rig. Prep to connect up Gas Lift Gas.  
10-29-57 13 sets Mesa Verde pers. flow 250 BLW 14 hrs. Pictured Cliffs dead.  
10-30-57 From 13 sets Mesa Verde Perfs, flow 48 BLW 24 hrs. Gas at rate of 2326 MCF per day. From 6 sets Pictured Cliffs perfs. flow 100 BLW 24 hrs. Gas at rate of 1235 MCF per day.  
10-31-57 Shut in for Gas Potential.  
11-11-57 Potential Test from 13 sets Mesa Verde Perfs. after 7 days shut in TP-1638#. Flow 4hrs 48/64" ch. TP-271#. Gas Volume 3366 MCF per day. Cal. absolute open flow 3699 MCF Per day. Completed 10-20-57.  
From 6 sets Pictured Cliffs perfs, after 7 days shut in TP-1097#. Flow 24 hrs. 45 in. thru 48/64" ch. Flowing TP-51#. Flowing CR-178#. Gas Volume: 731 MCF Per day. Calculated absolute open flow of 750 MCF per day. Completed 10-20-57.