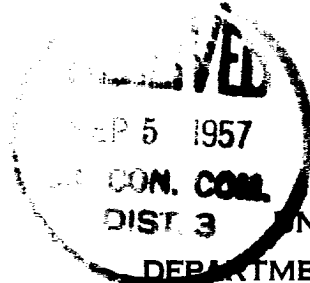


LOCATE WELL CORRECTLY



U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 079352 - 1
LEASE OR PERMIT TO PROSPECT
Harrington Federal
RECEIVED
SEP 27 1957
GEOLOGICAL SURVEY
HARRINGTON, NEW MEXICO

LOG OF OIL OR GAS WELL

Company Magnolia Petroleum Company Address Box 633 Midland, Texas
Lessor or Tract Harrington Federal # 1 Field Undesignated State New Mexico
Well No. 1 Sec. 28 T. 24N R. 1W Meridian N.M.P.M. County Rio Arriba
Location 1750 ft. S. of N. Line and 1750 ft. E. of W. Line of Section 28 Elevation 7404
(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 August 21, 1957 Title R.T. GERMAN
Division Superintendent

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

Commenced drilling July 11, 1957 Finished drilling July 24, 1957

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2636' to 2642' (G) 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 1290' to 1500' No. 3, from 2115' to 2405'
No. 2, from 1775' to 1950' No. 4, from 2720' to 3024'

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From-	To-	
<u>10-3/4</u>	<u>32.75</u>	<u>8-RT</u>	<u>British</u>	<u>307</u>					<u>Surface</u>
<u>7-5/8</u>	<u>26.40</u>	<u>8-RT</u>	<u>National</u>	<u>1683</u>					<u>Prod. String</u>
<u>7-5/8</u>	<u>26.40</u>	<u>8-RT</u>	<u>Kingston</u>	<u>1683</u>					<u>Prod. String</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>10-3/4</u>	<u>307'</u>	<u>150</u>	<u>Pump & Plug</u>		
<u>7-5/8</u>	<u>3240'</u>	<u>200</u>	<u>Pump & Plug</u>	<u>49</u>	<u>32,430 lbs.</u>

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 3240' feet, and from ** feet to ** feet
Cable tools were used from ** feet to ** feet, and from ** feet to ** feet

DATES

August 21, 1957 Put to producing August 8, 1957
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. _____
If gas well, cu. ft. per 24 hours 2921 MCF AOF Gallons gasoline per 1,000 cu. ft. of gas No Test
Rock pressure, lbs. per sq. in. 871 #

EMPLOYEES

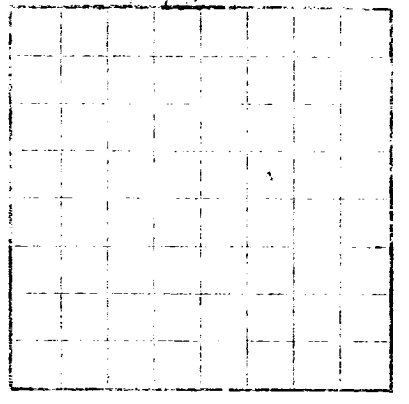
George W. Riley Inc., Driller _____, Driller _____
_____, Driller _____, Driller _____

FORMATION RECORD

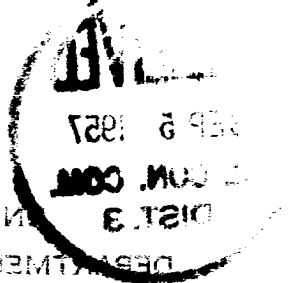
FROM-	TO-	TOTAL FEET	FORMATION
<u>2966</u>	<u>3024</u>	<u>58</u>	<u>OJO Alamo</u>
<u>3024</u>	<u>3128</u>	<u>104</u>	<u>Kirtland Fruitland</u>
<u>3128</u>	<u>3172</u>	<u>44</u>	<u>Pictured Cliff</u>
<u>3172</u>	<u>3240</u>	<u>68</u>	<u>Lewis</u>

SUMMARY

7-11-57 Spudded
7-15-57 Set 10-3/4" Casing on bottom at 307' with 150 sx.
7-22-57 DST Pictured Cliffs 3107-3125. Drill Stem Test 2632-2681', Pureco, 1 hr 34 Min. 3/4 X 1" ch. No W.C. Gas to surface in 30 min. Insufficient to measure. Rec. 1380' fresh wtr. 60' gas-Cut drlg mud, SFP-0#. BHFP-625#. 30 min. BHSIP 680#. 7-24-57 DST Pictured Cliffs 3109-3130' 1 1/2 hrs 3/4 X 1" ch. No W.C. Gas to sruf. 55 min. Insufficient to measure. Rec. 140' gas cut mud, SFP - 0#. BHFP-no reading. 30 Min. BHSIP - 895#. 7-26-57 Run 7-5/8" Casing on bottom with 200 sx cement. 7-29-57 Drilled out cement in 7-5/8" casing to 3197' PBT. Perf. 7-5/8" casing in Pictured Cliff 3149 to 3170'. with 6 shots per ft. Sandwaterfrac with 25,000 gals. Broke formation at 950'. TP-1300-1100#. 6 min. Shut in Press. on Vac. Using 105 rubber balls. Ran 2" tubing to 3121'. Rig released 7 P.M. 8- 2-57 Swb & flow load water 11 hrs. Lack 1180 BLW. Shut in for Pot Test. 8-12-57 3240' Total Depth. Potential test after 7 days shut in TP-871#. CP-871#. After 3 hr. blow down on 48/64" ch. Gas vol. 2190 MCF Per day. Flowing TP-172#. Flowing CP-455#. Calculated absolute open flow. 2921 MCF per day. Completed 7-28-57



LOCATE WELL CORRECTLY



DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Name: _____
Address: _____
State: _____
Well No.: _____
Location: _____
The information given hereafter is a complete and correct record of the well and all work done thereon so far as can be determined from available records.

Date of completion: _____
The primary or principal purpose of the well is: _____
Commanded drilling: _____

LIST OF LOGS AND RECORDS

No. 1. _____
No. 2. _____
No. 3. _____
No. 4. _____
No. 5. _____
No. 6. _____
No. 7. _____
No. 8. _____
No. 9. _____
No. 10. _____

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and the results. If there were any changes made in the casing, state fully, and if any casing was detracted, or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

HISTORY OF OIL OR GAS WELL

FROM-	TO-	TOTAL FEET	FORMATION
0	10	10	...
10	20	20	...
20	30	30	...
30	40	40	...
40	50	50	...
50	60	60	...
60	70	70	...
70	80	80	...
80	90	90	...
90	100	100	...

GRAIN 0109