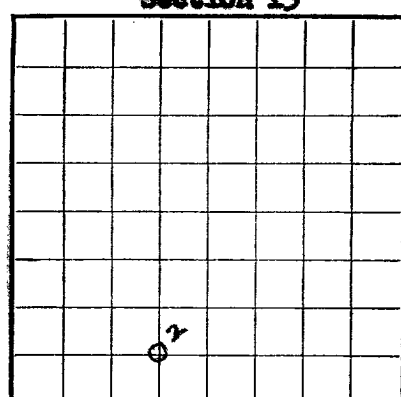


Form 9-330

Section 13



LOCATE WELL CORRECTLY

U. S. LAND OFFICE **Las Cruces**SERIAL NUMBER **060420**LEASE OR PERMIT TO PROSPECT
Capps-FederalUNITED 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 **Capps-Federal** Field **Bough** State **New Mexico**Well No. **2** Sec. **13** T. **9S** R. **35E** Meridian **N.M.P.M.** County **Lea**Location **660** ft. **N.** of **S** Line and **1980** ft. **E.** of **W** Line of **Section 13** Elevation **(Est.) 4121**
(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 **R. T. GERMAN**Date **October 2, 1956** Title **Division Superintendent**

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

Commenced drilling **June 22**, 19**56** Finished drilling **August 30**, 19**56**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

Bough

No. 1, from **9589'** to **9605'** 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 **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	8 RT	H40	413'					
7-5/8"	26.40	6 RT	J55	4160'					
5-1/2"	16.87	Hydrill	J55	9605'					
5-1/2"	16.87	Hydrill	J55	9605'			9589'	9605'	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"	413'	420	Circulated		
7-5/8"	4160'	1400	Circulated		
5-1/2"	9615'	450	Pump & Plug	1.1	5 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 **9615' (TD)** feet, and from _____ feet to _____ feetCable tools were used from **none** feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing **September 6**, 19**56**The production for the first 24 hours was **192** barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment.If gas well, cu. ft. per 24 hours _____ Gravity, °Bé. **47.6**

Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____**Magnolia Petroleum Company**, Driller _____, Driller_____**P. O. Box 633, Midland, Texas**, Driller _____, Driller

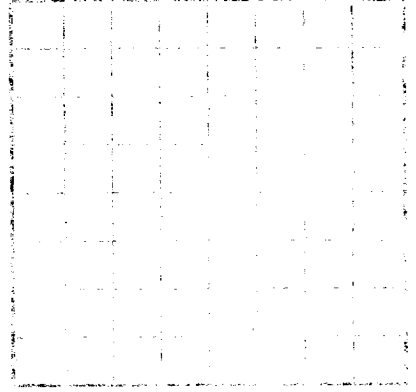
FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
2198'	2250'	52'	Anhydrite
2250'	2740'	490'	Salt
2740'	3470'	730'	Yates
3470'	4010'	540'	Queen
4010'	5440'	1430'	San Andres
5440'	6844'	1404'	Glorietta
6844'	7642'	798'	Tubbs
7642'	8867'	1225'	Abo
8867'	9504'	637'	Permo Penn.
9504'	9542'	38'	Bough "A"
9542'	9580'	38'	Bough "B"
9580'	9615'	35'	Bough "C"

- 6-23-56 Spudded
- 6-25-56 After setting 10-3/4" casing on bottom @ 413' w/420 sx cement, circulated, tested w/1000# for 30 min before and after drilling plug, tested OK, no break.
- 7-2-56 After setting 7-5/8" casing on bottom @ 4160' w/1400 sx cement, circulated, tested w/1500# for 30 min before and after drilling plug, tested OK, no break.
- 7-9-56 Drill Stem Test San Andres 4743-4806', 1 hr 5/8" X 1" ch. No water cushion. Gas to surface 4 min. Estimated 683 MCF per day. Recovered 120' gas-cut salt water. SFP 8#, BHFP 250#, 15 min BHSIP 1630#.
- 8-13-56 Drill Stem Wolfcamp 8830-8900' 1 hr. 5/8" X 1" ch. No water cushion. Nothing to surface. Recovered 5' drilling mud, no shows. All pressures zero.
- 8-27-56 Cored 9500-9540', recovered 40' lime, shale & dolomite, no show. Cored 9540' to 9580', recovered 40' lime & shale, small show oil 9561-9562'.
- 8-28-56 Drill Stem Test Bough "B" 9545-9580' 2 hrs 5/8" X 1" ch. No water cushion. Gas to surface 25 min 8 MCF per day. Recovered 170' oil & gas-cut mud. 200' free oil, Gravity 48.9. SFP 8#. BHFP 150#. 30 min BHSIP 3025#.
- 8-29-56 Cored 9580-9604', recovered 18' lime w/show oil throughout.
- 8-30-56 Ran Elec. Logs. Drill Stem Test Bough "C" 9570-9604' 3 1/2 hrs 5/8" X 1" ch. No water cushion. Gas to surface 4 min, mud to surface 45 min, oil to surface 51 min. Clean to pits 4 min. Flow 43 Bbls new oil 2 hrs 35 min. GOR 1480-1. Gravity 48.1. SFP 50#. BHFP 810#. 30 min BHSIP 2895#.
- 9-3-56 Set 5704' of 5 1/2" liner on bottom @ 9615', top of liner @ 3911'. Cemented with 150 sx cement. Survey top cement @ 8165'. Set Retainer @ 3835'. Cemented over top of liner with 300 sx, max. press. 2000#. Drilled out cement in 7-5/8" casing to 3911'. Tested top of 5 1/2" liner with 1700#, 30 min., OK. Drilled out plug & cement to 9610' Plug Back Total Depth.
- 9-5-56 Perf. 5 1/2" liner 9589-9605' with 4 shots per ft. Ran tbg & packer. Swab 30 bbls load oil 5 hrs, good show gas, 6000' FIH. Last hr swab 5 bbls load oil. From perf. 9589-9605', swab 8 bbls load oil (all) in 2 hrs, swab 6 bbls new oil in 6 hrs, good show gas. Acidized with 500 gals. Tubing pressure 2600-1900#. Swab 38 bbls load oil & 12 bbls acid water in 2 hrs. Flow 98 bbls new oil 11 hrs 13/64" choke. Tubing pressure 925#. Last hr flow 9 bbls new oil, shake out 2% mud.
- 9-6-56 On Potential Test, from perf. 9589-9605', flow 192 bbls new oil 24 hrs, 11/64" choke. GOR 1280-1. Gravity 47.6. Allow 148 BOPD. Estimate Cap. 192 BOPD. Tubing pressure 900#

State of _____
County of _____
Name of well _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



LOG OF OIL OR GAS WELL

The information given here is a summary of the work done on this well, and is not intended to be a complete record of the work. It is the responsibility of the operator to keep a complete and accurate record of the work done on this well, and to submit this summary to the Bureau of Land Management for its files. The summary should be submitted to the Bureau of Land Management within 30 days of the completion of the work.

OIL OR GAS SUMMARY OF WORK

1. Name of well _____
2. Location of well _____
3. Date of completion _____
4. Name of operator _____
5. Name of engineer _____
6. Name of geologist _____
7. Name of geophysicist _____
8. Name of chemist _____
9. Name of physicist _____
10. Name of biologist _____
11. Name of meteorologist _____
12. Name of hydrologist _____
13. Name of soil scientist _____
14. Name of plant scientist _____
15. Name of animal scientist _____
16. Name of human scientist _____
17. Name of social scientist _____
18. Name of economic scientist _____
19. Name of political scientist _____
20. Name of legal scientist _____

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 its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" 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
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99	100		

FORMATION RECORD—Continued

8-29-26 Cored 9280-9601, recovered 18' lime w/shell throughout.