

Section 19

U. S. LAND OFFICE Las Cruces
 SERIAL NUMBER 060978
 LEASE OR PERMIT TO PROSPECT
Jacobs-Federal

2									

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Magnolia Petroleum Company Address Box 633 Midland, Texas
 Lessor or Tract Jacobs-Federal Field Milnesand Bough State New Mexico
 Well No. 2 Sec. 19 T. 32 R. 35-E Meridian N.M.P.M. County Hoodsvall
 Location 660 ft. N. of NN Line and 260 ft. E. of W Line of 19 Elevation 4237
(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 November 19, 1957 Title R.T. Gorman
Division Superintendent

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

Commenced drilling August 23, 1957 Finished drilling October 21, 1957

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

No. 1, from 9294 to 9304 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 _____ 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 NT	Rep.	435					Surface
7-5/8	26.40	8 NT	Rep.	4780					Intermediate
5-1/2	17	8 NT	Rep.	1600			9294	9304	Liner
5-1/2	15.90	8 NT	Rep.	1698					Liner

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	435	425	Pump & Plug		
7-5/8	4780	175	Pump & Plug		
5-1/2	9325	475	Pump & Plug	45	47,20 lbs.

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 9325 feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

November 19, 1957, 19____ Put to producing November 14, 1957
 Temp. Abnd.
 The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____
 If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller
 _____, Driller
 _____, Driller

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
2185	2250	65	Anhydrite
2250	2550	300	T. Salt
2550	2632	82	B. Salt
2632	3320	688	Yates
3320	3325	505	Queen
3325	5250	1452	San Andres
5250	7513	2263	Glorieta
7513	8599	1086	Abso
8599	9224	625	Parmo Perm.
9224	9277	53	Bough "B"
9277	9321	44	Bough "C"

SUMMARY

8-23-57 Spudded
 8-26-57 10-3/4" casing on bottom with 425 sx cement. Circulated.
 9-6-57 Prep. 7-5/8" San Andres 4545-85'. Cored 4535-85' Good show oil 4545-85'.
 9-9-57 DST San Andres 4545-85' 2 hrs. 5/8" x 1" ch. No WC. Gas to surface 36 min. 19 BHP per day. Rec. 720' heavily oil-cut drilling mud. SFP 0%. BHP 245%. 15 min. BHSP 710%. DST San Andres 4585-4635' 1 hr 5/8" x 1" ch. No WC. Rec. 120' heavily oil cut drilling mud. SFP 0%. BHP 120. 30 min. BHSP 190%. Cored 4585-4635' Good show of oil.
 9-10-57 Cored 4635-4637' San Andres Good sh. oil 4635-4636'. Good show oil & salt water.
 9-13-57 7-5/8" casing on bottom with 1700 sx. Did not circulate.
 10-18-57 Prep. to DST Bough "B" 9208-40'. Recovered core from 9215-9240'. Had fair show. oil 9225-26', lost core from 9226-40'.

MAGNOLIA PETROLEUM COMPANY

10-21-57 DST Bough "B" from 9208-40', open 1 hr. & 30 min. 5/8" x 1" ch. No WC. Gas to surface 5 min. Mud to surf. in 23 min. Oil to surf. in 35 min. flow 4 BNO & 50 in 30 min on 1" Ch. GOR 1450/l. Gty. 43.5 @ 60. SFP 9%. BHP 249%. 30 min. BHSP 3085%. Cored 9240-46', core bbl. jammed, rec. 1 1/2 shale, no show. cored 9246-95', Cut & Rec 49', had poor oil sh. 9293-95'. Topsough "C" 9273'.
 10-22-57 DST in progress from 9285-9325', cored 9295-9325', cut & recovered 30', had fair show. 9340-9323' Bough "C".
 10-24-57 Ran Logs to run 5 1/2" Liner. DST Bough "C" from 9285'-9325', open 1 hr. & 30 min. No WC, nothing to surface, recovered 160' Gas cut drlg mud and 40' of oil-cut mud. No water. SFP 0%. BHP 90%. 30 Min. BHSP 560%.
 10-28-57 Cemented 4615' of 5 1/2" Liner @ 9325' with 175 sx. top liner @ 4710'. Drilled out plug in 5 1/2" Liner to 9256'. Squeezed top of liner @ 4710' with 300 sx. Drilled out plug in 7-5/8" casing. Tested top of liner with 1500 test OK.
 10-29-57 Drilled out plug and cement in 5 1/2" Liner to 9321' FBTD. Perf. 5 1/2" Liner 9294-9304' in Bough "B" running tubing and packer to test.
 10-30-57 Ran 2" tbg and packer at 9010'. Swabbed load oil. Swabbed dry. Prepare to acidize with 500 Gals.
 10-31-57 Swabbed dry 2 hrs. Acidized perf. 9294-9304' with 500 gals. T-3700-3700%. No break. Sw. 17 BNO 1 hr. Casing vacuum. Filled tubing and packer. Rerunning 2" tubing and packer. and testing tubing.
 11-1-57 Ran 2" tbg and pkr. @ 9009'. After 500 gals acid swabbed off acid water. Swabbed dry Prep. to re-acidized with 1000 Gals.
 11-4-57 From Perf. 9294-9304' after 500 Gals. Acid swabbed dry 4 hrs. Reacidized with 1000 Gals. T-3400-3400. No break. Swabbed 5 BNO 5 BNO 5 hrs. Dry 2 hrs. Weak show of gas. Re-acidized with 2000 Gals. T-4300%. Swabbed load oil & acid water 17 hrs. Swabbed load oil past 18 hrs. Load oil recovered.
 11-14-57 From perf. 9288-35' swabbed 11 BNO natural 2 hrs. No gas. Shake out 95% salt water, 5% mud. Pulled tubing & kr. Set Retainer at 9131'. Squeezed perf. 9288-93' with 50 sx. T-6500%. Reversed out 33 sx. WC.
 11-15-57 9325' Total Depth. Temporarily Abandoned 11-14-57. Rig released 11-14-57.

