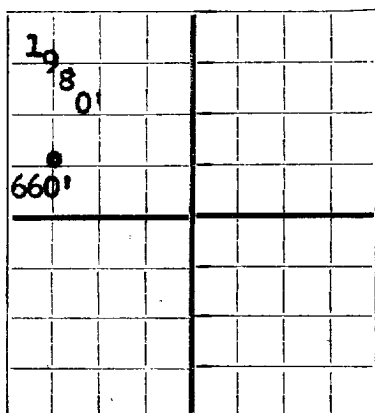


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NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

AREA 640 ACRES
LOCATE WELL CORRECTLY

WELL RECORD

Mail to Oil Conservation Commission, Santa Fe, New Mexico, or its proper agent not more than twenty days after completion of well. Follow instructions in the Rules and Regulations of the Commission. Indicate questionable data by following it with (?). SUBMIT IN TRIPPLICATE. FORM C-110 WILL NOT BE APPROVED UNTIL FORM C-105 IS PROPERLY FILLED OUT.

Magnolia Petroleum Company Box 727, Kermit, Texas
Company or Operator Address
C. Hardy Well No. **5** in **NW/4** of Sec. **29**, T. **21-S**
Lease
R. **37-E**, N. M. P. M., **Drinkard** Field, **Lea** County.
Well is **1980** feet south of the North line and **660** feet **east** of the **West** line of **Section 29**
If State land the oil and gas lease is No. Assignment No.
If patented land the owner is **C. Hardy**, Address **Eunice, New Mexico**
If Government land the permittee is, Address
The Lessee is **Magnolia Petroleum Company**, Address **Box 727, Kermit, Texas**
Drilling commenced **January 13, 1948** Drilling was completed **March 4, 1948**
Name of drilling contractor **Olson Drilling Company**, Address **1st Nat'l Bank Bldg. Midland, Texas**
Elevation above sea level at top of casing **3492** feet.
The information given is to be kept confidential until 19

OIL SANDS OR ZONES

No. 1, from **5175** to **5200** No. 4, from to
No. 2, from **6580** to **6630** No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS None logged.

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from to feet.
No. 2, from to feet.
No. 3, from to feet.
No. 4, from to feet.

CASING RECORD

SIZE	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & FILLED FROM	PERFORATED		PURPOSE
							FROM	TO	
13-3/8	48#	8rt	H-70	301	Halliburton				Surface
9-5/8	48#	8rt	Smls.						
9-5/8	36#	8rt	Smls.						
9-5/8	40#	8rt	Smls.	2950	Halliburton				Intermediate
7"OD	23#	8rt	Smls.						
7"OD	23#	8rt	Smls.	6655	Halliburton		6580	6630	Oil String

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHODS USED	MUD GRAVITY	AMOUNT OF MUD USED
17 1/2"	13-3/8	301	250	Pump & Plug		
12 1/2"	9-5/8	2950	1000	Pump & Plug		
8-3/4"	7"	6655	550	Pump & Plug		

PLUGS AND ADAPTERS None.

Heaving plug—Material Length Depth Set
Adapters—Material Size

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE	SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT
		20% low tension acid	2000 gals.	3-18-48	6580-6630	

Results of shooting or chemical treatment **Completing well.**

RECORD OF DRILL-STEM AND SPECIAL TESTS See reverse side.

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto.

TOOLS USED

Rotary tools were used from **0** feet to **6655** feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

PRODUCTION

Put to producing **9:00 AM, March 14, 1948**
The production of the first **6 1/2** hours was **82-1/2** barrels of fluid of which **100** % was oil; **0** % emulsion; **0** % water; and **0** % sediment. Gravity, Be **35.3 @ 60**
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, Driller

FORMATION RECORD ON OTHER SIDE

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

Subscribed and sworn to before me this **24th**
day of **March**, 19 **48**
Notary Public

Kermit, Texas, March 24, 1948
Name **E. T. Stephenson**
Position **District Superintendent**
Representing **Magnolia Petroleum Company**
Company or Operator
Address **Box 727, Kermit, Texas**

My Commission expires **June 1, 1949**

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	3.43	3.43	From top of rotary drive bushing to derrick floor
3.43	11.53	8.10	From derrick floor to top of 9-5/8" OD casing
11.53	100	88.47	Caliche and red rock
100	169	69	Gravel and red rock
169	305	136	Sand and red rock Straight @ 275.
<u>Set 13-3/8" OD casing @ 301' w/250 sac.</u>			
305	830	525	Red bed. Straight @ 500, 750.
830	1000	170	Red bed and shells. Straight @ 1000.
1000	1132	132	Red bed.
1132	1269	137	Red bed & sand strks.
1269	1700	431	Salt & gyp. Straight @ 1500.
1700	1850	150	Salt, Gyp, shells. Straight @ 1750.
1850	2020	170	Salt & anhydrite.
2020	2675	655	Anhydrite & gyp. Straight @ 2250, 2500.
2675	2900	225	Anhydrite and lime 1/2° @ 2750.
2900	2950	50	Lime Straight @ 2950.
<u>Set 9-5/8" OD casing @ 2950' w/1000 sac.</u>			
2950	3070	120	Anhydrite and lime.
3070	3775	705	Lime. Straight @ 3410, 3604; 1/4 @ 3725, 3690.
3775	3819	44	Sandy lime. Straight @ 3790.
3819	3895	76	Lime, broken.
3895	3913	18	Lime, rough.
3913	3948	35	Lime, faults, cavities.
3948	3955	42	Lime Straight @ 4000.
3955	3995	82	No formation logged.
3995	4394	481	Lime Straight @ 4157, 4300.
4394	4486	92	Lime and shale.
4486	4490	4	Lime, broken Lost circ. @ 4480', could not regain circ. w/weight- ing material.
4490	4448	42	Cemented w/50 sac. No circ., W.O.C. 9 hrs.
4490	5040	550	Re-cemented w/50 sac. Lost circ., W.O.C. 8 hrs.
			Lime 1° @ 4598, 3/4° @ 4725, 1° @ 4825, 2° @ 4950. Lost 1/2 pit mud 4525-4547.
5040	5114	74	Lime, sandy. 1 1/2° @ 5025.
5114	5200	86	Lime, sand strks.
5175	5200	25	Drill Stem Test. (Double Packer) Tool open 3 hrs. thru 5/8" BHC & 1" surface choke, gas 30 min. (insuff. to measure), SFP 0#; BHFP 200-300#; S-I 15 min. BHP 1600#; Rec. 540' oil, 180' heav. mud-out oil, 420' salt water, hyd. hd. 2400#.
5200	6326	1126	Lime 2° @ 5415; 1 1/2° @ 5485; 1 1/2° @ 5550, 5670, 1° @ 5791, 1° @ 5900, 1° @ 6070, 6220 1° @ 6220.
6326	6329	3	No formation logged.
6329	6655	326	Lime 1° @ 6400, 1° @ 6475.
			<u>Top of Pay 6589'.</u> Drlg. time av. 11 to 19 MPF. Fair to good staining, good pore. from 6589 to 6655.
6584	6655	71	Drill Stem Test Bottom 1st oil zone-6638' 2nd oil zone-6644-6651. (Double Packer) Tool open 3 hrs. thru 5/8" BHC & 1" surface choke, good blow thruout test, no flow of fluid, gas 12 1/2 min., rec. 2430' fluid unloaded oil 4 min w/2430' drill pipe in hole, last 60' oil & gas-out drlg. mud, no wtr., SFP 0#; BHFP 215-525#; 15 min. S-I BHP 2200#; hyd. hd. 3300#.
6655			Ran Schlumberger
			<u>Set 7" OD casing @ 6655' w/550 sac.</u> Centralizer set @ 5139.59, 5205.97, 6550.42, 6580.84, 6648, Top of Halliburton Float Collar - 6619.00 Top of Halliburton Float Shoe - 6653.00
6621	6653	32	Drilled out cement
6580	6630	50	McCullough Tools perf. 7" OD w/150 holes, 6 S.P.F.
			<u>Ran 2" tubing to 6653'.</u>
6580	6630	50	Western Co. acidized perf. w/2000 gals, 20% low ten. 2400#-2200#, 2 hrs. 38 min., 6/10 B.P.M.
			<u>ERG POT. TEST:</u> Flowed 82 1/2 bbls. oil 6 1/2 hrs. thru 44/64" adjustable choke. CP 550#-500#; TP 50#- 50#; GOR 338/1. Grav. 35.3 @ 60°; 1% mud, 1% acid water. Est 24 hr. cap. 31 1/4 bbls. oil.