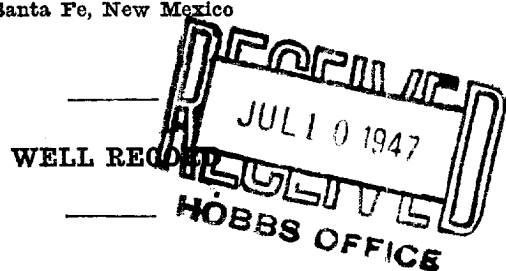
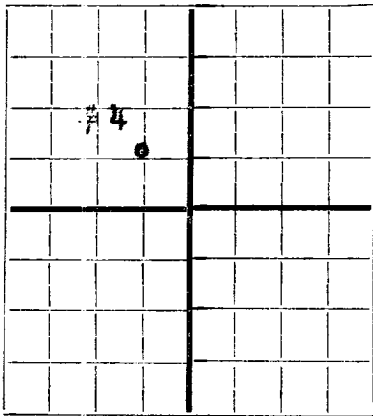


N

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico



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 TRIPLICATE. FORM C-110 WILL NOT BE APPROVED UNTIL FORM C-105 IS PROPERLY FILLED OUT.

AREA 640 ACRES
LOCATE WELL CORRECTLY

Magnolia Petroleum Company Box 727, Kermit, Texas
Company or Operator Address

C. Hardy Well No. **4** in **NW/4** of Sec. **29**, T. **21-S**
Lease

R. **37-E**, N. M. P. M., **Drinkard** Field, **Lea** County.
Well is **660** feet **north** of the **South** line and **660** feet west of the East line of **NW/4** 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 _____, Address _____

Drilling commenced **March 1**, 19 **47**. Drilling was completed **April 22**, 19 **47**

Name of drilling contractor **Magnolia Petroleum Company's New Mexico Drilling Tools**, Address **Box 727, Kermit, Texas**

Elevation above sea level at top of casing **3496'** feet.

The information given is to be kept confidential until _____ 19 _____

OIL SANDS OR ZONES

No. 1, from **3230** to **---** No. 4, from _____ to _____

No. 2, from **5145** to **5225** No. 5, from _____ to _____

No. 3, from **6535** to **6630** No. 6, from _____ to _____

IMPORTANT WATER SANDS

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#	8 RT	H-40 EW	323	Halliburton				Surface String
9-5/8"	36#	8 RT	J-55 EW						
9-5/8"	36#	8 RT	H-40 EW	3806	Halliburton				Intermediate Strn
7" OD	23#	Speedtite	J-55 SS						
7" OD	26#	8 RT	J-80 SS						
7" OD	23#	8 RT	J-55 SS	6644	Halliburton		6535	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
17-1/4	13-3/8	323	250	Pump & Plug		
12-1/4	9-5/8	3806	1000	Pump & Plug		
8-3/4	7" OD	6644	425	Pump & Plug		

PLUGS AND ADAPTERS

Heaving plug—Material **None** Length _____ Depth Set _____

Adapters—Material **None** Size _____

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE	SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT
		Acid	2000	4-27-47	6585-6630	

Results of shooting or chemical treatment **Swabbed dry, acidized thru perforations to complete.**

RECORD OF DRILL-STEM AND SPECIAL TESTS

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

TOOLS USED

Rotary tools were used from **Surface** feet to **6644** feet, and from _____ feet to _____ feet

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

PRODUCTION

Put to producing **April 28**, 19 **47**

The production of the first 24 hours was **288** barrels of fluid of which **100** % was oil; _____ % emulsion; _____ % water; and _____ % sediment. Gravity, Be. **38.7**

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 **30th** day of **June**, 19 **47** at **Kermit, Texas**, **June 30, 1947**

DAN H. GUYBERT, Notary Public
My Commission expires **June 1, 1949**

Name **[Signature]**
Position **District Superintendent**
Representing **Magnolia Petroleum Company**
Company or Operator
Address **Box 727, Kermit, Texas**

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	2.3'	2.3'	Top of rotary drive bushing to derrick floor.
2.3'	12.1'	9.8'	Top of derrick floor to top of 9 5/8" OD casg.
12.1'	40	27.9	Surface sand and caliche.
40	127	87	Red bed. 3/4 @ 127
127	225	98	Red rock and shells.
225	300	75	Red bed & Shale. 1 @ 250
300	328	28	Red rock. <u>Set 13 3/8" OD casg. @ 323 w/250 sax.</u>
328	396	68	Red bed.
396	850	454	Red and shale.
850	1003	153	Red bed and shell.
1003	1200	197	Red rock. 1/4 @ 1057
1200	1287	87	Red bed.
2187	1330	43	Anhydrite.
1330	1485	155	Red bed, shale, & shells.
1485	1664	179	Anhydrite and red rock. straight @ 1664
1664	2490	826	Anhydrite and salt. 1 1/2 @ 2100, 1 3/4 @ 2400
2490	2577	87	Anhydrite and lime.
2577	2637	60	Anhydrite.
2637	2690	53	Anhydrite and lime.
2690	2795	105	Anhydrite.
2795	2850	55	Anhydrite and lime. 1 3/4 @ 2800
2850	2927	87	Anhydrite.
2927	2975	38	Anhydrite and lime.
2975	3001	26	Anhydrite.
3001	3169	168	Anhydrite and lime.
3169	3193	24	Lime.
3193	3307	114	Anhydrite and lime. 3 3/4 @ 3277
3307	3329	22	Lime. 3 3/4 @ 3315
3329	3378	49	Anhydrite and lime. 3 1/2 @ 3340, 3 3/4 @ 3370
3378	3640	262	Lime. 2-3/4 @ 3420, 2 1/2 @ 3467, 2 1/2 @ 3500, 3553, 2 @ 3610
3640	3650	10	Hard lime.
3650	5225	1575	Lime. 13/4 @ 3668, 1 1/2 @ 3740, 1 1/2 @ 3705, 1 1/2 @ 3900, 4110, SIC 3906 = 3900, 1 @ 4233, 3/4 @ 4700, Lost circ. @ 4577 re-gained w/waiting water. <u>Set 9 5/8" OD casg. @ 3806' w/1000 sax.</u>
5194	5225	31	DST <u>Drill Stem Test</u> - Tool open 2 1/2 hrs. thru 5/8" BHC & 1" surface choke, gas 15 min. (insufficient to measure) surface flow, press. 0, BH f low press. gradual increase to 300# at end of test, S-I BHP 1650#, 15 min. w/23 stands still in hole, pipe unloaded oil for 5 min. and unloaded intermittently while pulling rest of pipe, rec. 1700' clean oil, 360' heavily oil and gas cut drilling mud.
5225	6573	1348	Lime. 2 1/2 @ 5340, SIC 5451 = 5428, 3/4 @ 5428, 1 @ 5590, Straight @ 6055'
6409	6573	74	DST. <u>Drill Stem Test</u> - Tool open 3 hrs. thru 5/8" BHC & 1" surface choke, gas 4 min., drlg. mud 70 min., oil 90 min. (Flowed 15 min. to clean up), flowed 1 1/2 hrs, 15 min. periods, 2.8, 1.4, 1.4, 1.4, 2.1, total 9.1 bbls. oil, 2 3/4 drlg. mud, Corr. Grav. 37.6 gas Vol. 48.75 MCF (Est. 936 MCF 24 hrs.) GOR 5477/1, surface F.P.W.G., BHP 500#, S-1 BHP 2400# 15M. Rec. 810' oil, 90' heavily oil and gas cut drlg. mud.
6573	6644	71	Lime SIC 6637 = 6644; 1 @ 6637'
6572	6644	72	<u>Drill Stem Test</u> - (Double Packer) Tool open 2 hrs. thru 5/8" BHC and 1" surface choke, gas 24 min. (Insufficient to measure) BHP 200#, S-1 BHP 1450' after 15 min., Rec. 300' heavily oil and gas cut drlg. mud, prepare to run 7" OD casg. to bottom.
6644			<u>TOTAL DEPTH</u> <u>Set 7" OD casg. @ 6644 w/425 sax. w/centralizers @ 6636, 6592, 6549, 6506, 6466, 6423, 5300, 5267, 5235, 5206, 5173, 5140, 5107, 5075.</u>
6603	6642	39	Drilled out to.
5000	6641	1641	Ran Gamma Ray & Neutron Log. Lan Wells perforated 7".
6585	6630	45	OD Casg. w/180 shots.
6585	6630	45	Western acidized perforations. w/2000 gals 2% low tension, 2400#, 2000# in 2 1/2 min.
			<u>TEST:</u> Flowed 96.2 bbls., oil, 8 hrs. thru 3/4" choke on 2" tubing, TP 200-25-200, CP 0-400# GOR 336/1, Corr. Grav. 38.7, 1.2% BS&S, Est. cap. 288 bbls. oil, 24 hrs.
			May 9th - Chemical process re-acidized w/4000 gal. 200# to low tension 2000# - 1300# - 43 min. before acidizing, 45 bbls. per day. After acidizing 70 bbls. per day 2 1/2 hrs. thru 33/64" choke CP 1700# - 200# TP 700# - 250#.