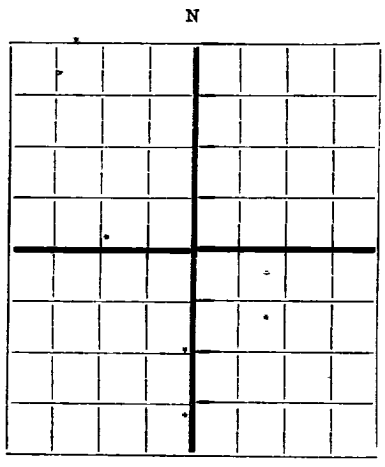
7-7-47

FORM C-105



AREA 640 ACRES
LOCATE WELL CORRECTLY

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

RECEIVED
JUL 10 1947
HOBBS OFFICE

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

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

H. Corrigan (Lease) Well No. 4 in SE/4 of Sec. 33, T. 21-S

R. 37-E, N. M. P. M., Brunson Field, Lea County.

Well is 731 feet south of the North line and 589 feet ~~west~~ east of the ~~East~~ West line of SE/4 of Sec. 33

If State land the oil and gas lease is No. ..... Assignment No. .....

If patented land the owner is H. Corrigan, Address 5th Floor, First National Bank Bldg, Midland, Texas

If Government land the permittee is ....., Address .....

The Lessee is ....., Address .....

Drilling commenced February 28, 1947 Drilling was completed April 22, 1947

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 3451 feet.

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

OIL SANDS OR ZONES

No. 1, from 5090 to 5400 No. 4, from ..... to .....

No. 2, from 6435 to 6700 No. 5, from ..... to .....

No. 3, from 7603 to 7636 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 FROM	PERFORATED TO	PURPOSE
13-3/8	48#	8rt	H-40	320	Halliburton				Surface String
9-5/8	36#	8rt	S-80						
9-5/8	36#	8rt	J-55						
9-5/8	40#	8rt	J-55	3910	Halliburton				Intermediate
5-1/2	17#	8rt	S-55	7659	Halliburton		7610	7635	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"	320	250	Pump & Plug		
12-1/4	9-5/8"	3910	1000	Pump & Plug		
8-3/4	5-1/2"	7659	1034	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

Results of shooting or chemical treatment .....

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 7659 feet, and from ..... feet to ..... feet

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

PRODUCTION

Put to producing April 27, 1947

The production of the first 24 hours was est. 436 barrels of fluid of which 100 % was oil; ..... %

emulsion; ..... % water; and ..... % sediment. Gravity, Be. 41.6

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, 1947

[illegible] Notary Public

My Commission expires June 1, 1949

Kermit, Texas, June 30, 1947
Place Date

Name L. T. Davis

Position District Superintendent

Representing Magnolia Petroleum Company
Company or Operator

Address Box 727, Kermit, Texas

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION	
0	0.9'	0.9'	Top of rotary drive bushing to derrick floor.	
0.9'	11.3'	10.4'	From derrick floor to top of 9-5/8" OD casing.	
113'	140	128.7	Caliche & sand	
140	145	5	Red bed	
145	285	140	Red rock	
285	515	230	Red bed & red rock	
				Set 13-3/8" OD casg. @ 320' w/250 sax.
				1° @ 310'.
515	665	150	Red rock & shells	Straight @ 575.
665	875	210	Shale & red rock	
875	1009	134	Red rock & sand	Straight @ 900.
1009	1085	76	Shale & red rock	
1085	1145	60	Red rock	
1145	1285	140	Anhydrite	Straight @ 1248.
1285	1555	270	Red rock & anhy.	
1555	1597	42	Anhy., salt & red rock	
1597	2410	813	Anhy, & salt	SLC 1611 = 1619
				1° @ 2016; 1-3/4° @ 2250.
				Straight @ 1619.
2410	2540	130	Anhy.	2° @ 2530.
2540	2556	16	Yates	
2556	2611	55	Anhy.	
2611	2622	11	Salt	
2622	2773	151	Anhy.	1-3/4° @ 2745.
2773	2795	22	Brown lime	
2795	2842	47	Anhy.	
2842	3452	610	Anhy. & lime	2° @ 3110, 3213.
				SLC 3215 = 3213
				1½° @ 3350.
3452	3477	25	Lime	
3477	3555	78	Lime & sand	
3555	4485	930	Lime	1½° @ 3680; 2° @ 3850.
				SLC 3840 = 3850.
				Set 9-5/8" OD casg. @ 3910' w/1000 sax.
				1½° eff @ 4225.
				SLC 4220 = 4225.
4485	4555	70	No formation logged.	
4555	5095	540	Lime	1¼° @ 4575; 1° @ 4953.
5095	5230	135	Lime, soft gas & oil show.	
5230	6505	1275	Lime	1° @ 5380, 5860; Straight @ 6146.
				SLC 6383 = 6389.
				1° @ 6389.
6435	6505	70	Drill Stem Test - Tool open 90 min. thru 5/8" BHC & 1" surface choke, gas in 5 min. (Est. 1482.6 MCF 24 hrs.), drilling mud 18 min., oil 23 min., flowed 11 bbls. oil, 3% BS&W, drilling mud 1 hr., GOR 5773/1, Corr. Grav. 39.8°; Surface flowing pressure 250#, BH flowing pressure 950#, 1st. hr. 900#, last 30 min., S-I; BHP 2550# after 15 min. (did not reach maximum), Rec. 360' clean oil, 30' drilling mud.	
6505	6577	72	Lime	Drlg. time 5-6 M.P.F.
6473	6577	104	Drill Stem Test - Tool open 2½ hrs. thru 5/8" BHC & 1" surface choke, gas 4 min., drilling mud, 25 min. oil 40 min., stabilized and cleaned up for 20 min., flowed 1st. 15 min. 6.3 bbls. oil, 2nd 15 min. 6.1 bbls. oil, 3rd 15 min., 6.9 bbls. oil, 4th 15 min., 5.5 bbls. oil, 5th 15 min., 3.7 bbls. oil, 6th 15 min., 4.8 bbls. oil, total oil 33.3 bbls. oil, 1.2% drlg. mud, GOR 2236/1; Corr. Grav. 39.9 surface flowing press. 160#, BHFP 675#, S-I BHP 2425# after 15 min.	
6577	7317	740	Lime	1° @ 6744; 1½° @ 7032.
				SLC 7035 = 7032.
				1½° @ 7230
7317	7387	70	Lime & shale	
7387	7419	32	No formation logged.	
7419	7491	72	Lime	Top of Ellenberger 7465; Drlg. time average 8M.P.F. 7463-7491.
7456	7491	35	Drill Stem Test - (Double packer), tool open 2 hrs. thru 5/8" BHC & 1" surface choke, gas 17M (insufficient to measure) BHFP 300#, S-I BHP 1700# after 15 min., Rec. 30' free oil and 210' heavily oil & gas cut drlg. mud.	
7491	7579	88	Lime & chert	2½° @ 7547.
				SLC 7539 = 7547
7579	7586	7	Lime	Drlg. time average 9 M.P.F. 7561-7575.
7500	7586	86	Drill Stem Test - (Double packer), tool open 2½ hrs. thru 5/8" BHC & 1" surface choke, gas in 6 min., drlg. mud 30 min., oil 35 min., (cleaned 10 min.), flowed 15 min. periods 8.3, 9.6, 8.3, 9.6, 9.6, 9.6, 9.6, total 1-3/4 hrs. 64.6 bbls., 1% BS (drlg. mud), Corr. Grav. 42.5, Gas 1-3/4 hrs. 88/2 MCF (Est. 1210 MCF per 24 hrs), GOR 1378/1, Surface F.P., B.O. gage, BHFP 1250# S-I BHP 2700#, Rec. 1050' oil, 30' oil and gas cut drlg. mud.	
7586	7644	58	Lime	Top of Ellenberger Pay 7603.
7644	7659	15	Weathered granite.	
7659			TOTAL DEPTH	
3906	7658	3752	Ran Schlumberger Well Survey.	
6800	6942	142	Drilled out cement, found 1st plug @ 6890'.	
7650	7650	20	Drilled out cement, tested 5½" casg. below basket w/1500#, O.K. for 30 min.	

McCullough Tools perforated 5½" OD casg. from 7610 to 7635 w/100 shots.

TEST: Flowed 145.7 bbls. oil, 8 hrs. thru 1/4" choke on 2" tubing, CP 200#, TP 800#, GOR 1200/1, Corr. Grav. 41.6°, Est. cap. 436 bbls. oil 24 hrs., 3/10 of 1% BS.

Set 5-1/2" OD casg. on bottom @ 7659' w/234 sax thru shoe; & 800 sax thru Baker multiplex collar @ 6952; Baker baffle collar @ 6885' & Baker metal petal basket @ 6942-6952, 6962-6972 w/ weatherford centralisers @ 7654, 7617, 7574, 7531, 7488, 7444, 7401, 7357, 7314, 6629, 6586, 6543, 6500, 6456.