

DUPLICATE

JUL 2 1948
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FORM C-105

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

HOBBBS OFFICE

860									

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
Company or Operator
E. O. Carson
Lease
Well No. 16 in NW/4 of Sec. 33, T. 21-S
R. 37-E, N. M. P. M., Brunson Field, Lea County.
Well is 660 feet south of the North line and 860 feet west of the East line of Section 33
If State land the oil and gas lease is No. Assignment No.
If patented land the owner is E. O. Carson, Address Merkel, Texas
If Government land the permittee is Address
The Lessee is Magnolia Petroleum Company, Address Box 727, Kermit,
Drilling commenced March 5, 1948. Drilling was completed May 27, 1948.
Name of drilling contractor J. G. Hawkins, Address Box 719, Dallas, Texas
Elevation above sea level at top of casing 3474 feet.
The information given is to be kept confidential until 19

OIL SANDS OR ZONES

No. 1, from 6470 to 6593 No. 4, from 8176 to 8190
No. 2, from 7146 to 7859 No. 5, from to
No. 3, from 7892 to 7907 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#	8RT	G H 40	298	Halliburton				Surface
9-5/8"	36#	8 RT	J-55	2854	"				Intermediate
7"	26#	8RT	J-55						
7"	26#	8 RT	N-80	8220	"		8176	8190	Oil String
2"	4.7#	8 RT	N-80						
2"	4.7#	8 RT	J-55	EUE 8210					

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"	298	300	Pump & Plug		
12 1/2"	9-5/8"	2854	1500	Pump & Plug		
8 3/4"	7"	8220	1100	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
		Low Tension Acid	1000 Gals.	6-8-48	8176-8190	

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 Surface feet to 8220 feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

PRODUCTION

Put to producing June 8, 1948
The production of the first 10 hours was 163 barrels of fluid of which 100% was oil; 0% emulsion; 0% water; and 0% sediment. Gravity, Be. 39 @ 60°
If gas well, cu. ft. per 24 hours Est. 24 hrs. 12300 Gallons gasoline per 1,000 cu. ft. of gas.
Rock pressure, lbs. per sq. in.

EMPLOYEES

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 1948
Kermit, Texas June 30, 1948
Name District Superintendent
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
8170	8220	50	BST - (2 Packers) 1 hr. 17 min. 5/8" BHC & 1" surface chokes, no water cushion, gas 18 min., (Est. 24 hrs. 8.92 MCF), no mud or oil to surface. Rec. 85' mud, 90' gas-cut mud, 450' heavy oil and gas cut mud, 90' clean oil, 360' heavy gas and oil cut salt water; SFP no gauge; BHFP 275-525#. S-I 15 min. BHP 2850#; hy. hd. 4200#.
8220			TOTAL DEPTH
2850	8220	5370	Ran Schlumberger. Set 7" OD casing @ 8222' (Pipe Tally) w/150 sack cement thru bottom of casing and 950 sack THRU Multiplex Collar w/Multiplex Collar @ 7317.29; Metal Petal Baskets from 7346.96 to 7338.96 and from 7331.96 to 7323.96. Baffle Collar @ 7282.88. Centralisers set @ 8215.23, 8151.36, 8083.63, 8019.93, 7954.98, 7894.58, 7829.78, 7765.40, 7700.74, 7357.54, 7333.46, 7312.29, 7244.84, 6608.96, 6544.01, 6479.31, 6414.82, 5285.78, 5224.55, 5164.49, 5102.97, 1727.28, 1695.72.
150	6155	6055	Schlumberger ran Temperature Survey, probably top of cement, 545'.
6173	8210	2037	Drilled out cement.
8176	8190	14	Lane Wells perforated 7" OD casing w/84 holes, 6 shots per foot. <u>Ran 2" tubing to 8210'.</u> Swabbed dry.
8176	8190	14	Western Co. acidized perforations w/1000 gals, 20% low tension, 2900#-0#; 71 min., 1.5 BPM. REG TEST: Flowed 163 bbls. oil 10 hrs. 1/4" chokes TP 1000#-50#; CP 50#-60#; GOR 750/1, 24 hrs. gas 123 MCF, Grav. 39 @ 60; 4/100 acid water; Est. 24 hr. capacity 392 bbls. oil. Allow. 129 bbls.

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	2.51	2.51	From top of rotary drive bushing to derrick floor.
2.51	14.50	11.99	From derrick floor to top of 13-3/8" OD casing.
14.50	242	227.50	Red bed
242	315	73	Red bed & anhydrite Straight @ 292.
<u>Set 13-3/8" OD cass. @ 292' w/300 mx.</u> Cement circulated.			
315	750	435	Red bed
750	1125	375	No form. logged 1/2" @ 900.
1125	1250	125	Red rock & anhydrite 3/4" @ 1200.
1250	1517	267	Anhydrite & salt
1517	1570	53	Anhy., shells & salt 3/4" @ 1500.
1570	2460	890	Anhydrite & salt 3/4" @ 1800; 1 1/2" @ 2100; 1" @ 2300.
2460	2550	90	Anhydrite & gyp 1 1/2" @ 2470.
2550	2610	60	Anhydrite
2610	2745	135	Anhydrite & gyp 1" @ 2625.
2745	2797	52	Anhydrite & shale 2" @ 2740.
2795	2858	63	Anhydrite 2" @ 2800.
<u>Set 9-5/8" OD @ 2854' w/1500 mx.</u>			
2858	2868	10	Anhydrite & lime
2868	2977	109	Anhy., lime & sand
2977	3053	76	Anhydrite & lime
3053	5172	2119	Lime 1-3/4" @ 3000. 3/4" @ 3300, 3639; 1/2" @ 3850, 4050, 1-3/4" @ 4384; 3 1/2" @ 4690; 3" @ 5030; 2 1/2" @ 5115, 5165; 3/4" @ 4856, 4945; 2-3/4" @ 4980.
5172	5200	28	Lime & shale
5200	5261	61	Lime 2" @ 5200.
5261	5295	34	Sandy lime 2" @ 5271.
5295	5860	565	Lime 1-3/4" @ 5355; 2" @ 5445; 1-3/4" @ 5504; 2" @ 5534; 1/2" @ 5594; 1" @ 5710. Straight @ 5820.
5860	5900	40	No form. logged
5900	6120	220	Lime 3/4" @ 5945; 1" @ 6067, 6130.
6120	6137	17	No form. logged
6137	6510	373	Lime 1/2" @ 6230; 1 1/2" @ 6330; 1/2" @ 6410, 6469. Drlg. time 12 MPF.
6470	6510	40	DST - (2 Packers) 1 hr. 5/8" BHC & 1" surface ch. gas 2 min., distillate oil spray 11 min. (insufficient to measure), SFP, no gauges; BHFP 1840#; 15 min. S-I BHP (Packer unseated) Hy. hd. 3240#; Rec. 200' distillate oil & gas cut mud, est. 24 hr. gas vol. 9600 MCF.
6510	6518	8	No form. logged
6518	6593	75	Lime 1/2" @ 6557. Av. drlg. time 13 MPF. Oil zone 6515-6530, light staining & good porosity. 6530-6555, 10-20% light stain & porosity, 6555-6585, 30% -50% fair stain & porosity.
6514	6593	79	DST - (2 Packers) 2 hrs. 6 min. 5/8" BHC & 1" surface choks, gas 43 min. (insufficient to measure), no fluid to surface; SFP 0#; BHFP 85-105#. 15 min. S-I BHP 1265#; hy. hd. 3235#; rec. 215' oil & gas cut mud.
6593	6715	122	Lime 3/4" @ 6617; 1" @ 6700.
6715	6731	16	No form. logged
6731	7198	467	Lime 1" @ 6754; 1 1/2" @ 6783; 1-3/4" @ 6930, 1 1/2" @ 6980. 3/4" @ 7085; 1 1/2" @ 7109, 1 1/2" @ 7169. 2 1/2" @ 7200; 1/2" @ 7230. 1 1/2" @ 7317.
7198	7277	79	Lime & chert
7277	7330	53	Lime & shale
7330	7409	79	Lime
7409	7429	20	Lime & shale
7429	7466	37	Lime 1 1/2" @ 7430.
7466	7700	234	Lime & shale 1 1/2" @ 7500, 7578; 3/4" @ 7648,
7700	7738	38	Cored-Recovered 35' green shale limestone, calcareous shale, calcareous sandstone and sandy shale, a few red to brown streaks.
7738	7778	40	Cored-Recovered 100%. Top 8' impure shale and sandstone, bottom 32' sandstone, show oil 7752-7778.
7778	7818	40	Cored-Recovered 36' sandstone w/thin streaks of shale, 50% core, show of oil.
7818	7848	30	Cored-Recovered 27' sandstone w/thin streaks of shale, 85% show of oil.
7848	7879	31	Cored-Recovered 23', top 10' sandstone w/60% show of oil, bottom 13' shale and impure sandstone, no show of oil.
7879	7905	26	Cored-Recovered 17', top 9' impure shale, bottom 8' sandstone w/show of oil.
7905	7914	9	Cored-Recovered 8', top 1' sandstone w/show of oil and bottom 7' shale and impure sandstone, no show of oil.
Top McKee - 7746. Top staining - 7752'. Bottom Main McKee - 7859'. Top lower McKee - 7892'.			
7914	7922	8	Shale 1" @ 7914.
7922	8032	110	Lime & Shale
8032	8067	35	Lime, sandy shale
8067	8179	112	Lime & shale 3/4" @ 8085.
8179	8195	16	Dolomite & chert
8195	8220	25	Lime & chert Top white limestone, 8100, Top Ellenberger 8180, 8190-8194 13 MPF, 8194-8220 30 MPF, 8180-8220, 10% porosity, trace of light staining.