

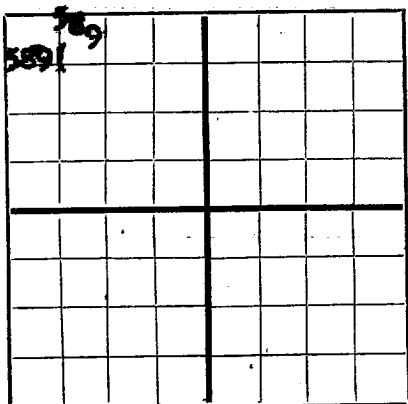
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FORM C-105

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NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico



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
Brunson Arge Well No. **16** in **NW/4** of Sec. **10**, T. **22-S**
Lease
R. **37-E**, N. M. P. M., **Brunson** Field, **Lea** County.
Well is **589** feet south of the North line and **589** feet **east** of the **West** line of **Section 10**.
If State land the oil and gas lease is No. Assignment No.
If patented land the owner is **R. L. Brunson**, Address **Emice, New Mexico**
If Government land the permittee is Address
The Lessee is **Magnolia Petroleum Company**, Address **Box 727, Kermit, Texas**
Drilling commenced **December 27, 1947** Drilling was completed **February 16, 1948**
Name of drilling contractor **Magnolia Petroleum Company's New Mexico Drilling Tools**, Address **Box 633, Midland, Texas**
Elevation above sea level at top of casing **3425'** feet.
The information given is to be kept confidential until 19

OIL SANDS OR ZONES

No. 1, from **5075** to **5220** No. 4, from to
No. 2, from **6485** to **6570** No. 5, from to
No. 3, from **7430** to **7450** 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#	SRT	H-40	302	Halliburton				Surface
9-5/8"	36#	SRT	J-55	2832	"				Intermediate
5-1/2"	17#	SRT	H-40	7454	"		7430	7450	Oil String
2"	4.7#	SRT	H-40	7454					

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	302	300	Pump & Plug		
12"	9-5/8"	2832	975	Pump & Plug		
7-7/8"	5-1/2"	7454	70 / 1025	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
		NONE.				

Results of shooting or chemical treatment

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 **7454** feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

PRODUCTION

Put to producing **February 25, 1948**
The production of the first **24** hours was **132** barrels of fluid of which **100** % was oil; **0** % emulsion; % water; and **0** % sediment. Gravity, Be. **43.6 @ 60°**
If gas well, cu. ft. per 24 hours **Est. 204 MCF** 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 **27th**

day of **February**, 19 **48**

DAN B. CAMPBELL
Notary Public
in and for Wheeler County, 1948

My Commission expires **June 1, 1949**

Kermit, Texas **February 27, 1948**
Date

Name **E. J. Stephenson**

Position **District Superintendent**

Representing **Magnolia Petroleum Company**
Company or Operator

Address **Box 727, Kermit, Texas**

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	1.45	1.45	From top of rotary drive bushing to derrick floor.
1.45	12.50	11.05	From derrick floor to top of 9-5/8" OD casing.
12.50	168	155.50	No formation logged.
168	280	112	Red bed. Straight @ 180', 280'.
280	302	22	Red rock.
			<u>Set 13-3/8" OD casing @ 302' w/300 sax.</u>
140	302	162	Drilled out cement.
302	1085	783	Red bed. Straight @ 650', 990'.
1085	1196	111	Red bed & shells.
1196	1400	204	Red rock. 1/4" @ 1230'.
1400	2458	1058	Salt & anhydrite. 2" @ 1790', 1910, 2030; 13/4" @ 2130; 1 1/2" @ 2315, 2439'.
2458	2832	374	Anhydrite & lime. 1 1/2" @ 2547, 2" @ 2743'.
			<u>Set 9-5/8" OD casing @ 2832' w/975 sax.</u>
2832	2982	150	Lime & anhydrite. 2" @ 2930'.
2982	3172	190	Lime. 1-3/4" @ 3050, 3100.
3172	3380	208	Lime & anhydrite. 1-3/4" @ 3320'.
3380	3450	70	Lime. 1 1/4" @ 3450.
3450	3603	153	Anhydrite & lime.
3603	3410	907	Lime. 1" @ 3615, 3/4" @ 3695, 3890'; 1" @ 4130'; 1 1/4" @ 4441'.
4510	4525	15	Lime & junk. 1 1/4" @ 4525.
4525	5130	605	Lime. 1" @ 4667', 1" @ 4844, 1-3/4" @ 4912; 1 1/4" @ 4963'.
			(5080-5130) 5 MPF drlg. time.
5075	5130	55	DST - (Double Packer) Tool open 4 hrs. thru 5/8" BHC & 1" surface choke, gas 11 min., mud 1 hr. 45 min., oil 1 hr. 46 min., cleaned in pits 44 min., flowed by 15 min. periods, 5.5, 2.75, 1.38, 2.04, 1.38, 2.75, total 15.8 bbls. oil 1 1/2 hrs.; est. 24 hr. gas vol. 204.57 MCF, GOR 809/1. Grav. 36.8 @ 60°; 3.8% B.S., no water, SFP 50%-30%; BHFP 300#-650#; 15 min. S-I BHP 2000#; hyd. hd. 2609#; Rec. circ. out.
5130	5180	50	Lime. Av. 3 1/2 min. per ft., good porosity and staining.
5130	5180	50	DST - (Double Packer) tool open 2 hrs. 10 min. thru 5/8" BHC & 1" surface choke, good blow through out test, did not flow, gas 3 min., rec. unloaded slightly mud-cut oil 2 min. w/510' drill pipe in hole, rec. 180' slightly mud-cut oil & 90' heavily mud-cut oil, no formation water; SFP 0#; BHFP 425#; to 350#; S-I 15 min. BHP 2050#; hyd. hd. 2600#.
5180	5220	40	Av. 4 MPF (5180-5220) good pore. & stain. - -Lime.
5180	5220	40	DST - (Double Packer) tool open 1 1/2 hrs. thru 5/8" BHC & 1" surface choke, good blow @ surface throughout test, did not flow fluid, gas 3 1/2 min., rec. 2790' fluid (unloaded 2 min. w/2790' drill pipe in hole, 1 min. w/1000' drill pipe in hole) slightly mud cut oil 1080-540, oil & gas cut drlg. mud for 500', salt water last 40'; SFP 0#; BHFP 350-450#; 15 min. S-I BHP 1975#; hyd. hd. 2675#.
5220	6439	1219	Lime. 1 1/2" @ 5323, 1" @ 5850; 3/4" @ 6040; 3/4" @ 6188; 1" @ 6439.
6439	6495	56	No formation logged.
6495	6570	75	Lime. Top oil zone 6484'; better oil zone 6525-6545 Av. drlg. time 6 MPF.
6485	6570	85	DST - (2 packers) tool open 2 hrs. thru 5/8" BHC & 1" surface choke, not test, hole in drill pipe @ 4770, rec. 3420' drlg mud.
6485	6570	85	DST - (2 packers) tool open 2 hrs. thru 5/8" BHC & 1" surface choke, gas 14 min., slight blow of gas throughout test, did not flow, rec. 360' heavy oil cut drlg. mud; BHFP 0#, 15 min. S-I BHP 2100#; hyd. hd. 3300#.
6570	6714	144	Lime.
6714	6741	27	No formation logged.
6741	7438	697	Lime. 1" @ 6740; 3/4" 7225.
7438	7447	9	Granite. <u>SLG 7447 = 7454</u> Granite top 7438'; top Ellenberger 7285', broken line & ch 7285-7370', no good stain or porosity. Top basal sand 7370, looks good.
7454			Ran Schlumberger.
7367	7447	80	DST- (2 packers) tool open thru 3/8" BHC & 1" surface choke, 1 hr. 27 min., gas 3 min., mud 9 1/2 min., oil 10 min., cleaned in pits 17 min., flowed 15 min. periods, 22.69, 24.06, 22.69, 24.75, total 94.19 bbls. oil 1 hr., gas volume 2858 MCF 24 hrs., 1 hr. 119 MCF, GOR 1264/1, Corr. Grav. 43.4 @ 60°; 4/10 of 1% BS. no water circ. out, recovery; SFP 100#-345#; BHFP 2475# 2500#; S-I 15 min. BHP, tool failed to close properly; hyd. hd. 3800#.
			<u>Set 5-1/2" OD casing @ 7454' w/70 sax below Baker Multiplex Collar @ 7192' and 1025</u> sax thru Baker Multiplex Collar @ 7192. Top of Baker Baffle Collar - 7158.45. Top of Metal Baskets - 7208.25 Bottom of Metal Baskets - 7239.45 Top of Baker Float Collar - 7417.10 Top of Halliburton Float Collar 7415.61 Top of Halliburton Float Shoe - 7452.25 Centralize set @ 5058.82, 5087.57, 5119.70, 5152.70, 5152.68, 6382.58, 6414.60, 6447.16, 6480.17, 6512.42, 6544.85, 6577.33, 7186.75, 7218.25, 7249.45, 7281.53, 7313.81, 7346.13, 7378.65, 7410.99, 7447.89,
5044			Halliburton ran Temp. Surv. Top of cement - 2750
5337	7454	2117	D/O Cement.
7430	7450	20	w/80 holes, 4 SPF. - - Perforating Guns perf. 5 1/2" OD
			<u>2" tubing @ 7454.</u>
REG POT. TEST (NATURAL)			Flowed 132 bbls. oil 15 hrs. thru 1/4" positive choke, CP