

Santa Fe, New Mexico

1969 APR 2 AM 10 04

WELL RECORD

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLICATE. If State Land submit 6 Copies

AREA 640 ACRES
LOCATE WELL CORRECTLY

Magnolia Petroleum Company
(Company or Operator)

Santa Fe #10
(Lea)

Well No. 1 in SE 1/4 of NE 1/4, of Sec. 15, T. 9S, R. 36E, NMPM.

Undesignated Pool Loc County.

Well is **1980'** feet from **North** line and **330** feet from **East** line

of Section 15 If State Land the Oil and Gas Lease No. is Patented

Drilling Commenced.....**12-28**....., 19**58**..... Drilling was Completed.....**Feb 24**....., 19**59**.....

Name of Drilling Contractor.....**Maroon Drilling Company**.....

Address Ada, Oklahoma

Elevation above sea level at Top of Tubing Head..... 4048.25' The information given is to be kept confidential until
....., 19.....

No. 1, from 9718 to 9723 No. 4, from.....to.....

No. 2, from.....to..... No. 5, from.....to.....

No. 3, from.....to..... No. 6, from.....to.....

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.

SIZE	WEIGHT PER FOOT	NEW OR USED	AMOUNT	KIND OF SHOE	CUT AND PULLED FROM	PERFORATIONS	PURPOSE
10 3/4	32.75	New	398				Surface String
7 5/8	26.40	New	5000				Intermediate St
5 1/2	15.50 & 17	New	1914			9718-9723	Liner

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
15"	10 3/4"	398	375	Pump & plug		
9 7/8"	7 5/8"	5000	2755	Pump & plug		
6 3/4"	5 1/2"	9706	480	Pump & plug		

(Record the Process used, No. of Qts. or Gals. used, interval treated or shot.)

See attachments:

Result of Production Stimulation.

..Depth Cleaned Out.

JOORD OF DRILL-STEM AND SPECIAL TA 8

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 9726 TD feet, and from feet to feet.
Cable tools were used from feet to feet, and from feet to feet.

PRODUCTION

Put to Producing March 24, 1959

OIL WELL: The production during the first 24 hours was 170 barrels of liquid of which 46 % was oil; % was emulsion; 54 % water; and % was sediment. A.P.I. Gravity 44.5° @ 60°

GAS WELL: The production during the first 24 hours was M.C.F. plus barrels of liquid Hydrocarbon. Shut in Pressure lbs.

Length of Time Shut in

PLEASE INDICATE BELOW FORMATION TOPS (IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE):

Southeastern New Mexico			Northwestern New Mexico		
T. Anhy.	2210		T. Devonian		T. Ojo Alamo
T. Salt	2312		T. Silurian		T. Kirtland-Fruitland
B. Salt	2730		T. Montoya		T. Farmington
T. Yates	2850		T. Simpson		T. Pictured Cliffs
T. 7 Rivers			T. McKee		T. Menefee
T. Queen	3566		T. Ellenburger		T. Point Lookout
T. Grayburg			T. Gr. Wash		T. Mancos
T. San Andres	4104		T. Granite		T. Dakota
T. Glorieta	5555		T.		T. Morrison
T. Drinkard			T.		T. Penn.
T. Tubbs	6980		T.		T.
T. Abo	7735		T.		T.
T. Penn	8970		T.		T.
T. Miss			T.		T.

FORMATION RECORD

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	187		Sand & Caliche	9291	9307		Dolomite
187	2236		Red Bed	9307	9389		Lime & shale
2236	2800		Anhydrite & salt	9389	9527		Shale
2800	3332		Anhydrite	9527	9590		Lime & shale
3332	4115		Anhydrite & Gyp	9590	9615		Lime
4115	7362		Lime	9615	9625		Shale & Lime
7362	7428		Sand & shale	9625	9726		Shale, Lime & chert
7428	7512		Shale				
7512	7698		Lime & sand				
7698	7789		Lime & shale				
7789	7942		Shale				
7942	8046		Lime & shale				
8046	8119		Lime				
8119	8532		Lime & shale				
8532	8651		Lime, shale & anhydrite				
8651	8708		Gyp				
8708	8770		Shale & lime				
8770	8879		Lime				
8879	9005		Dolomite				
9005	9031		Dolomite & Lime				
9031	9036		Dolomite				
9036	9291		Dolomite & lime				

ATTACH SEPARATE SHEET IF ADDITIONAL SPACE IS NEEDED

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.

March 26, 1959

Company or Operator Magnolia Petroleum Company

Address Box 2406

Name J. J. J. J.

Position or Title Hobbs, New Mexico DIST. Supt.

ATTACHMENT: Well Record
Santa Fe "I" #1

DEVIATION SURVEY

<u>Depth</u>	<u>Off Vertical</u>
130	Not over 1°
345	1-1/4°
3320	Not over 1°
3990	1-1/2°
4160	2-3/4°
4350	Not over 1°
4525	1-1/2°
9448	Not over 1°

DRILL STEM TESTS

<u>No.</u>	<u>Date</u>	<u>From</u>	<u>To</u>	<u>No. Kind & Size of Perforations (or Open Hole)</u>	<u>Tool Set @</u>	<u>Chokes Top Bottom</u>	<u>Water Cushion</u>	<u>Time Tested</u>
1	2-18-59	9534	9583	Open Hole	9534	5/8" 1"	None	45 Min.
Slight vac. throughout test - rec. 40' drlg. mud, no shows - 30 min. SI - 1065#-135#, BHFP 82#-82#, HH 5198-5198#.								
2	2-23-59	9699	9724	Open Hole	9699	5/8" 1"	None	9 Min.
Tool open 9 min. TSTM - rec. 740' heavy oil & gas cut drlg. mud + 200' free oil - gr. 45.8° @ 60° + 290' SW - SFP 0#, BHFP 60#-390# - 30 min. SI 2585#, HH 5240-5225.								

CORE RECORD

<u>No.</u>	<u>From</u>	<u>To</u>	<u>Rec.</u>	<u>Description</u>
1	4848	4894	38'	4848-77' (29') dolo. w/fine Xly brown w/5-10% anhy. & trace of blk. sh. Trace to 10% inter Xly & frac por. bleeding O&G. 4861-67 (6') bleeding s.w. 4877-84 (7') dolo., very fine Xlyn tan to gray, no por., no show. 4884-86 (2') dolo., very fine Xlyn brown 10% inter Xlyn & frac por., bleeding O&G. 4886-94 (8') No rec.
2	4894	4944	45'	4894-4913 - dolomite, fine Xlyn br. tr. - 10% inter Xln p.p. & frac por, bleeding oil, gas & water. 4913-19 - dolomite, fxln br w/anhy ind., no por. or shows. 4919-27 - dolo., fxln br. - tr. - 10% IXLN, bleed oil, gas & water. 4927-34 - dolomite, no shows or por. 4934-39 - anhy. w/dolo. stringers, no por. or show. 4939-44 - 5', no rec.
3	8965	9005	36'	8965-67 - limestone & dolomite sl. show, stain & fluor, no por., poor show. 8967-79 - limestone & dolomite, N.S. 8979-82 - limestone & dolomite, sl. show st. & fluor., no porosity, poor show. 8982-9001 - limestone & dolomite, N.S. 9001-9005 - no recovery.
4	9640	9668	25'	9640-43 - white L.S. top 2', FXLN & small vuggy porosity, no show. 9643-46 - gray shale, no show. 9646-62 - white to gray L.S. shaley, N.S. 9662-65 - white, L.S. w/good XLN, p.p. & small vuggy porosity, N.S. 9665-68 - no rec.

(Continued)

ATTACHMENT #2: Well Record
Santa Fe "I" #1

CORE RECORD (Continued)

<u>No.</u>	<u>From</u>	<u>To</u>	<u>Rec.</u>	<u>Description</u>
5	9668	9724	56'	9668-74 - lime, no show. 9674-79 - shale - dk. gr., N.S. 9679-88 - lime, FXLN, br. gr., N.S. 9688-93 - shale red., N.S. 9693-9707 - lime, FXLN, blk., gr., slightly shaley, N.S. 9707-15 - lime, FXLN white - good vuggy & p.p.p., good spotty fluor. & cut - odor of gas on fresh break good show. 9715-16 - lime, FXLN gr., N.S. 9716-20 - shale, dk. gr., N.S. 9720-24 - limestone FXLN gray shaley, N.S.

ACIDIZING OR OTHER COMPLETION OPERATIONS

- 3-1-59 BJ attempted to acid perf 9716-24 w/250 gals 15% reg., TP 4000-6000# 2 hrs. 20 min., none in perms.
- 3-2-59 BJ acid perf. 9716-24 w/250 gals 15% L.S.T., no imulsion, lacked 4 bbls. getting acid on spot. Press 6000#, 25 mins., no acid to form. Opened pkr. by pass. Spotted acid over perf. Acid perf. 5700# 1/2 BPM, 12 min. SD 5700#, 5 min. SD 900#, 15 min. SD vac, swab hit fluid @ 1800'. Swab 39 BLO + 8 BAW 3 1/2 hrs.
- 3-8-59 BJ attempted to acid perf w/250 gals LST, soaked 25 min. on perf. 5500#. Communication between tbg. & csg., opened pkr. bypass & rev. 6 bbls. acid. Opened pkr. bypass, spotted 250 gals 15% LST acid over perf., closed bypass, soak acid 16 min. A/39 min. Avj. inj..16 BPM, 1/4 BPM, TP 4400-3500, break on last 2 bbls. 3500#, vac. 7 min., swab fluid @ 1000'. Swab 38 BLO + 6 BAW 2 hrs.