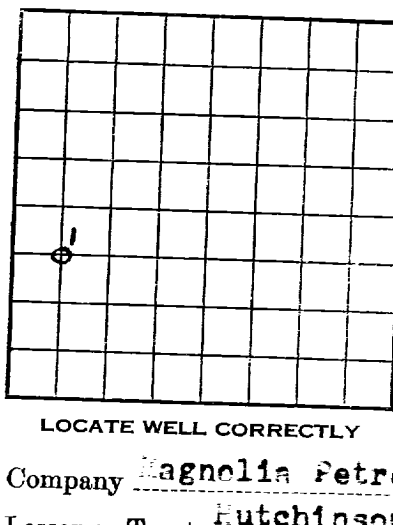




UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Magnolia Petroleum Company Address Box 633 - Midland, Texas
Lessor or Tract Hutchinson-Federal Field Unnamed State New Mexico
Well No. 1 Sec. 14 T. 19 N. R. 3 E. of 3 Line of Sec. 14 County Sandoval
Location 1920 W. 1/4 of 3 Line and 660 ft. E. of 1/4 Line of Sec. 14 Elevation 6785

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Date December 27, 1953Signed F. J. German, Div. Sup't.

The summary on this page is for the condition of the well at above date.

Commenced drilling 5:30 PM July 3, 1953 Finished drilling 10-17, 1953.OIL OR GAS SANDS OR ZONES
(Denote gas by G)

Entered Sand 5214 to 5231 No. 4, from 5231 to 5231
No. 1, from 5214 to 5231 No. 5, from 5231 to 5231
No. 2, from 5231 to 5231 No. 6, from 5231 to 5231
No. 3, from 5231 to 5231

IMPORTANT WATER SANDS

No. 1, from (None - water hauled to location) to (None - water hauled to location)
No. 2, from (None - water hauled to location) to (None - water hauled to location)
No. 3, from (None - water hauled to location) to (None - water hauled to location)
No. 4, from (None - water hauled to location) to (None - water hauled to location)

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated	Purpose
10-3/4"	32.75	8VT	8VT	452'	Ball lb.			Surface
8"	23	8VT	J-55	479'	Ball lb.			Oil String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4"	452'	550	Pump & Plug		
8"	5478'	100	Pump & Plug		

PLUGS AND ADAPTERS

Heaving plug—Material none Length none Depth set none
Adapters—Material none Size none

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleared out
(Acid record)	Acidize perf 5210-5217'		4/250	4-1	Acid	Time: 24 min
	Rate: 1/2 BPH, TP 3000-1600#. CP-Perf.					

TOOLS USED

Rotary tools were used from 0 feet to 5231 feet, and from 5231 feet to 5231 feetCable tools were used from 0 feet to 5231 feet, and from 5231 feet to 5231 feet

DATES

Put to producing November 22, 1953The production for the first 24 hours was 72 barrels of fluid of which 100% was oil, 0% emulsion, 0% water, and 0% sediment.If gas well, cu. ft. per 24 hours 0 Gallons gasoline per 1,000 cu. ft. of gas 0Rock pressure, lbs. per sq. in. 0

EMPLOYEES

Creekmore Drilling Co., Driller

809 Thomas Eldg Driller

Tulsa, Oklahoma Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	560	560	Sand & Shale
560	1196	636	Sand
1196	1433	237	Jandy Lime
1433	1617	184	Sand
1617	2075	458	Lime & Sand
2075	2300	225	Sand & Shale
2300	2927	627	Sand
2927	3216	289	Shale & Sand
3216	3275	59	Sand
3275	4214	939	Shale & Sand
4214	4337	123	Sand
4337	4515	178	Sand & Shale
4515	4568	53	Lime
4568	5193	625	Sand & Shale
5193	5478	285	Sand
5478	6020	542	Red bed
6020	6246	226	Red bed & Shale
6246	6593	347	Red & Green Shale
6593	7222	629	Sand & Shale
7222	7474	252	Shale Lime
7474	7766	292	Sand & Shale
7766	7725	59	Lime & Shale
7725	7772	47	Shale & Sand
7772	7826	54	Sand & Lime
7826	8240	414	Lime & Shale
8240	8526	286	Shale, Sand & Lime

FORMER

10-380-53

FORMATION RECORD CONT.

8758	9213	55	Lime
9213	9254	41	Lime & Shale
9254	9271	17	Lime & Shale
9271	9284	13	Lime & Shale
9284	9284	0	Granite

FORMATION SUMMARY

Formation	Top
Desaverde	290
Jandies	2115
Toledo	3165
Jakota	4209
Harrison	4440
Coalinga	5180
Entrada	5214
Missile	5240
Permian	5250
Granite	9657

DRILL LOG TESTS

C.	Date	From	To	Open Hole	Depth	Shoe	Water	Time
1.	7-7-53	1130	1196	Open Hole	1130	1"	5/8"	None 1 hr
(Desaverde)	Used 2 pkrs. Nothing to surface. Rec. 20' fresh water slightly out w/ dril mud, 40' fresh water. SFP 0. SFP 0-160%. Closed 15 min SIP 250. RH 590 in & out.							
2.	7-8-53	1395	1433	Open Hole	1395	1"	5/8"	None 1 hr
(Desaverde)	Used 2 pkrs. Nothing to surface. Rec. 30' dril mud, no shows. SFP 0. Closed 15 min SIP 500. RH 630 in & out.							
3.	7-9-53	1491	1511	Open Hole	1491	1"	5/8"	None 1 hr
(Desaverde)	Used 2 pkrs. Nothing to surface. Rec. 180' dril mud, MAXIMUM out w/ fresh water, 30' fresh water. SFP 0. SFP 0-120%. Closed 15 min SIP 350. RH 615 in & out.							
4.	7-10-53	1511	1560	Open Hole	1511	1"	5/8"	None 1 hr
(Desaverde)	Used 2 pkrs. Nothing to surface. Rec. 390' fresh water slightly out w/ dril mud. SFP 0. SFP 0-160%. Closed 30 min. SIP 380. RH 790 in & out.							
5.	7-10-53	1599	1617	Open Hole	1599	1"	5/8"	None 1 hr
(Desaverde)	Used 2 pkrs. Nothing to surface. Rec. 90' fresh water slightly out w/ dril mud. SFP 0. SFP 0-300%. Closed 30 min SIP 380. RH 790 in & out.							
6.	7-11-53	1725	1743	Open Hole	1725	1"	5/8"	None 1 hr
(Desaverde)	Used 2 pkrs. Nothing to surface. Rec. 20' dril mud slightly out by oil gas, 1' free oil. SFP 0. SFP 0-300%. Closed 30 min SIP 410. RH 855 in & out.							
7.	7-12-53	1827	1837	Open Hole	1827	1"	5/8"	None 1 hr
(Desaverde)	Used 2 pkrs. Nothing to surface. Rec. 60' fresh water out w/ dril mud, 150' fresh water. SFP 0. SFP 0-60%. Closed 30 min SIP 565. RH 815 in & out.							
8.	7-12-53	1972	1982	Open Hole	1972	1"	5/8"	None 1 hr
(Desaverde)	Used 2 pkrs. Nothing to surface. Rec. 20' dril mud out w/ fresh water. SFP 0. SFP 0-300%. Closed 30 min SIP 555. RH 810 in & out.							
9.	7-15-53	2545	2570	Open Hole	2545	1"	5/8"	None 1 hr
(Lancos)	Used 2 pkrs. Nothing to surface. Rec. 5' dril mud, no shows. SFP 0. Closed 15 min. SIP 0. RH 1200 in & out.							
10.	7-16-53	2905	2922	Open Hole	2905	1"	5/8"	None 30 min
(Lancos)	Used 2 pkrs. Nothing to surface. Rec. 5' dril mud, no shows. All press 0. RH 1475 in & out.							
11.	7-17-53	2933	2927	Open Hole	2933	1"	5/8"	None 45 min
(Lancos)	Used 2 pkrs. Nothing to surface. Rec. 10' dril mud, no shows. All press 0. RH 1420 in & out.							
12.	7-18-53	2965	3011	Open Hole	2965	1"	5/8"	None 1 hr
(Lancos)	Used 2 pkrs. Nothing to surface. Rec. 10' dril mud, no shows. All press 0. RH 1510 in & out.							
13.	7-21-53	3225	3275	Open Hole	3225	1"	5/8"	None 1 hr 10 min
(Locito)	Used 2 pkrs. Nothing to surface. Rec. 5' dril mud. All press 0. RH 1400 in & out.							

DRILL LOG TESTS CONT.

C.	Date	From	To	Open Hole	Depth	Shoe	Water	Time
14.	7-30-53	4204	4214	Open Hole	4204	1"	5/8"	None 1 hr
(Jakota)	Used 2 pkrs. Nothing to surface. Rec. 30' dril mud, 160' fresh water. SFP 0. SFP 0-250%. Closed 30 min. SIP 1500. RH 2100 in & out.							
15.	8-3-53	5323	5337	Open Hole	5323	1"	5/8"	None 1 hr
(Jakota)	Used 2 pkrs. Nothing to surface. Rec. 3210' fresh water. SFP 0. SFP 0-1475. Closed 30 min SIP 1000. RH 2150 in & out.							
16.	8-4-53	4358	4372	Open Hole	4358	1"	5/8"	None 1 hr
(Jakota)	Used 2 pkrs. Nothing to surface. Rec. 1600' fresh water. SFP 0. SFP 0-250. Closed 30 min SIP 1070. RH 2070 in & out.							
17.	8-14-53	5200	5215	Open Hole	5200	1"	5/8"	None 1 hr
(Entrada)	Used 2 pkrs. Nothing to surface. Rec. 130' clean oil, 20' mud out oil. SFP 0. SFP 120%. Closed 30 min. SIP 1440. RH 2490-2440.							
18.	8-15-53	5205	5229	Open Hole	5205	1"	5/8"	None 2 hrs
(Entrada)	Used 2 pkrs. Gas to surface 25 min. Too small to measure. Rec 510' clean oil, 35' oil out dril mud. SFP 0. SFP 170% closed 45 min SIP 1450. RH 2460 in & out.							
19.	8-22-53	5503	5521	Open Hole	5503	1"	5/8"	None 1 hr
(Entrada)	Used 2 pkrs. Nothing to surface. Circ sub broke - no test.							
20.	9-23-53	5501	5521	Open Hole	5501	1"	5/8"	None 1 hr
(Entrada)	Used 2 pkrs. Nothing to surface. Rec. 4430' fresh water. SFP 0. SFP 2175-2200. Closed 30 min. SIP 2200. RH 2500 in & out.							
21.	9-28-53	3710	3750	Open Hole	3710	1"	5/8"	None 1 hr
(Permian)	Used 2 pkrs. Nothing to surface. Rec. 90' dril mud, no shows. SFP 0. SFP 0-15 min. SIP 3625. RH 1490 in & out.							
22.	10-3-53	5077	5152	Open Hole	5077	1"	5/8"	None 1 hr
(Permian)	Used 2 pkrs. Nothing to surface. Rec. 1032' slightly saltwater out mud. SFP 0. SFP 70-500%. Closed 15 min. SIP not recorded RH 4060-4150.							

LOG DESCRIPTION

C.	Date	From	To	Depth	Description
1.	7-7-53	1130	1196	21	Top 3' gray shale, 11m 13' fine to medium grain gray quartz sand, no shows.
2.	7-8-53	1395	1433	60	1102-3146 gray shale, no shows. 3146-3160 red & gray shale w/ scattered sand stringers, no shows.
3.	7-9-53	1491	1511	31	31' dark gray shale, no shows.
4.	7-10-53	1511	1560	25	25' dark gray shale, no shows.
5.	7-10-53	1599	1617	55	3216-3230 fine grain gray shale sand, no shows.
6.	7-10-53	1617	1617	39	3230-3230 fine grain gray shale sand, no shows.
7.	7-10-53	1617	1617	39	3230-3230 fine grain gray shale sand, no shows.
8.	7-10-53	1617	1617	39	3230-3230 fine grain gray shale sand, no shows.
9.	7-10-53	1617	1617	39	3230-3230 fine grain gray shale sand, no shows.
10.	7-10-53	1617	1617	39	3230-3230 fine grain gray shale sand, no shows.
11.	7-10-53	1617	1617	39	3230-3230 fine grain gray shale sand, no shows.
12.	7-10-53	1617	1617	39	3230-3230 fine grain gray shale sand, no shows.
13.	7-10-53	1617	1617	39	3230-3230 fine grain gray shale sand, no shows.
14.	7-10-53	1617	1617	39	3230-3230 fine grain gray shale sand, no shows.
15.	7-10-53	1617	1617	39	3230-3230 fine grain gray shale sand, no shows.
16.	7-10-53	1617	1617	39	3230-3230 fine grain gray shale sand, no shows.
17.	7-10-53	1617	1617	39	3230-3230 fine grain gray shale sand, no shows.
18.	7-10-53	1617	1617	39	3230-3230 fine grain gray shale sand, no shows.
19.	7-10-53	1617	1617	39	3230-3230 fine grain gray shale sand, no shows.
20.	7-10-53	1617	1617	39	3230-3230 fine grain gray shale sand, no shows.
21.	7-10-53	1617	1617	39	3230-3230 fine grain gray shale sand, no shows.
22.	7-10-53	1617	1617	39	3230-3230 fine grain gray shale sand, no shows.
23.	7-10-53	1617	1617	39	3230-3230 fine grain gray shale sand, no shows.

History of well

5-7-53	Location staked.
7-7-53	Commenced drilling.
7-4-53	Set 10-3/4" csg 452' /550 sax neat, circ 40 sax. 400 36 hrs.
7-5-53	Tested 10-3/4" csg 452' /550 sax neat, circ 40 sax. 400 36 hrs.
7-11-53	7-11-53 DST's 1,2,3,4,5 & 6 & Core 1
7-12-53	DST 7 & 8
7-13-53	7-13-53 Ran Elec. Logs
7-15-53	7-15-53, DST's 9,10,11,12 & 13 & Cores 2,3,4,5, & 6.
7-20-53	7-20-53 Ran Elec. Logs
8-15-53	8-15-53 DST's 14,15,16,17 & 18 & Cores 7,9,10,11,12,13,14,15,16,17, 18 & 19.
8-20-53	8-20-53 Ran Elec. Logs
9-21-53	9-21-53 Set 7" csg 4330' /4100 sax. 400 18 hrs. Halliburton ran Temp Survey, tested 7" csg.
9-21-53	9-21-53 Set 7" csg 4330' /4100 sax. 400 18 hrs. Halliburton ran Temp Survey, tested 7" csg.
10-17-53	10-17-53 DST's 19-20-21 & 22 & Cores 21,22 & 23.
10-18-53	10-18-53 Ran Elec. Logs, Ran Beta Ray
10-18-53	10-18-53 Ran Elec. Logs, Spotted plug 5140-5075' /20 sax neat. Spotted cnt plug 5070-5070' /20 sax neat.
10-18-53	10-18-53 Spotted cnt plug 5070-5070' /20 sax neat & 5550-5300' /40 sax neat.
10-20-53	10-20-53 Drilled cnt to 5400'.
10-21-53	10-21-53 Tested 7" csg & well connection w/1500s. Lane Wells perf 7" csg 5210-5210-5210.
10-23-53	10-23-53 Lane Wells perf 7" csg 5240 w/4 holes.
10-25-53	10-25-53 Lane Wells perf 7" csg 5210-5210 /75 sax neat.
10-27-53	10-27-53 Lane Wells perf 7" csg 5210-5217'.
11-1-53	11-1-53 Vertical Horizontal Well Perf 5210-17' /20 sax neat and 5011. Spotted perf 5210-17' /100 sax neat.
11-3-53	11-3-53 Tested perf 5190' No Break. Perf 7" csg 5210-15' /4 1/2". Ran 5"
11-4-53	11-4-53 Running 5190'.
11-13-53	11-13-53 Lane Wells perf 7" csg 5190-5200' w/4 holes. Squeezed off w/40 sax neat