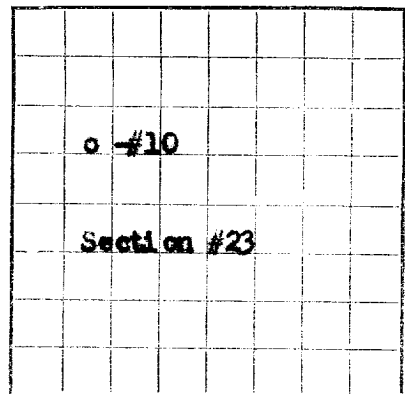




LOCATE WELL CORRECTLY

U. S. LAND OFFICE **Las Cruces, N.M.**
SERIAL NUMBER **046164 (a)**
LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company **Amerada Petroleum Corporation** Address **Drawer D - Monument, New Mexico**
Lessor or Fract **Mr. W. Anderson Lease** **Monument** State **New Mexico**
Well No. **10** Sec. **23** T. **20** S. **3** E. **660** of **23** Line and **660** of **23** Line of **23** Elevation **3589'** of
Location **1700 ft. N. 1/2 Sec. 23, T. 20 S., R. 660 E., S. 3 E.** (Derrick floor relative to sea level)

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 **June 1, 1955** Title **Production**

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

Commenced drilling **May 13, 1955** Finished drilling **May 18, 1955**

NO. 1 from **3668'** to **3710'** **Oil Production**
NO. 2 from **3668'** to **3710'** **Oil Production**
NO. 3 from **3668'** to **3710'** **Oil Production**
NO. 4 from **3668'** to **3710'** **Oil Production**
NO. 5 from **3668'** to **3710'** **Oil Production**
NO. 6 from **3668'** to **3710'** **Oil Production**
NO. 7 from **3668'** to **3710'** **Oil Production**
NO. 8 from **3668'** to **3710'** **Oil Production**
NO. 9 from **3668'** to **3710'** **Oil Production**
NO. 10 from **3668'** to **3710'** **Oil Production**

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
8-5/8"	24	8		1377'	Guide				
5-1/2"	15.5	8		3675'	Float	3668' to 3710'			Oil Production

HISTORY OF OIL OR GAS WELL

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	1394'	800	B&L Serv.		
5-1/2"	3890'	450	Halliburton		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

ACIDIZING & FRACTURING SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
5-1/2"	OD casing perforations	from 3668' to 3710'	15%			
1ST Acid	Sand-oiled 5-1/2" OD casing perforations	from 3668' to 3710'				
	with 20,000 gallons of oil and with 20,000 lbs. of sand.					

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Put to producing **May 21, 1955**

The production for the first 24 hours was **422.53** barrels of fluid of which **62%** was oil; _____% emulsion; **3%** water; and **4%** sediment. Gravity, °Bé. **32.7**

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

H. E. Brigan, Driller **T. L. Henson**, Driller
A. E. Morris, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0'	6'	6'	Cellar
6'	1371'	1365'	Red Beds
1371'	1479'	108'	Anhydrite
1479'	2690'	1211'	Salt, Anhydrite and shale
2690'	2842'	152'	Anhydrite & Shale
2842'	2980'	138'	Anhydrite, Shale and sand.
2980'	3671'	691'	Anhydrite, Dolomite and sand.
3671'	3839'	168'	Dolomite and sand.

SCHLUMBERGER TOPS

Anhydrite 1371'
Top Salt 1479'
Base Salt 2690'
Top Yates 2842'
Base Yates 2980'
Top Queens 3671'
Penrose 3839'

FROM—	TO—	TOTAL FEET	FORMATION
3890'	3870'	20'	Shale and sand.
3870'	3850'	20'	Shale and sand.
3850'	3830'	20'	Shale and sand.
3830'	3810'	20'	Shale and sand.
3810'	3790'	20'	Shale and sand.
3790'	3770'	20'	Shale and sand.
3770'	3750'	20'	Shale and sand.
3750'	3730'	20'	Shale and sand.
3730'	3710'	20'	Shale and sand.
3710'	3690'	20'	Shale and sand.
3690'	3670'	20'	Shale and sand.
3670'	3650'	20'	Shale and sand.
3650'	3630'	20'	Shale and sand.
3630'	3610'	20'	Shale and sand.
3610'	3590'	20'	Shale and sand.
3590'	3570'	20'	Shale and sand.
3570'	3550'	20'	Shale and sand.
3550'	3530'	20'	Shale and sand.
3530'	3510'	20'	Shale and sand.
3510'	3490'	20'	Shale and sand.
3490'	3470'	20'	Shale and sand.
3470'	3450'	20'	Shale and sand.
3450'	3430'	20'	Shale and sand.
3430'	3410'	20'	Shale and sand.
3410'	3390'	20'	Shale and sand.
3390'	3370'	20'	Shale and sand.
3370'	3350'	20'	Shale and sand.
3350'	3330'	20'	Shale and sand.
3330'	3310'	20'	Shale and sand.
3310'	3290'	20'	Shale and sand.
3290'	3270'	20'	Shale and sand.
3270'	3250'	20'	Shale and sand.
3250'	3230'	20'	Shale and sand.
3230'	3210'	20'	Shale and sand.
3210'	3190'	20'	Shale and sand.
3190'	3170'	20'	Shale and sand.
3170'	3150'	20'	Shale and sand.
3150'	3130'	20'	Shale and sand.
3130'	3110'	20'	Shale and sand.
3110'	3090'	20'	Shale and sand.
3090'	3070'	20'	Shale and sand.
3070'	3050'	20'	Shale and sand.
3050'	3030'	20'	Shale and sand.
3030'	3010'	20'	Shale and sand.
3010'	2990'	20'	Shale and sand.
2990'	2970'	20'	Shale and sand.
2970'	2950'	20'	Shale and sand.
2950'	2930'	20'	Shale and sand.
2930'	2910'	20'	Shale and sand.
2910'	2890'	20'	Shale and sand.
2890'	2870'	20'	Shale and sand.
2870'	2850'	20'	Shale and sand.
2850'	2830'	20'	Shale and sand.
2830'	2810'	20'	Shale and sand.
2810'	2790'	20'	Shale and sand.
2790'	2770'	20'	Shale and sand.
2770'	2750'	20'	Shale and sand.
2750'	2730'	20'	Shale and sand.
2730'	2710'	20'	Shale and sand.
2710'	2690'	20'	Shale and sand.
2690'	2670'	20'	Shale and sand.
2670'	2650'	20'	Shale and sand.
2650'	2630'	20'	Shale and sand.
2630'	2610'	20'	Shale and sand.
2610'	2590'	20'	Shale and sand.
2590'	2570'	20'	Shale and sand.
2570'	2550'	20'	Shale and sand.
2550'	2530'	20'	Shale and sand.
2530'	2510'	20'	Shale and sand.
2510'	2490'	20'	Shale and sand.
2490'	2470'	20'	Shale and sand.
2470'	2450'	20'	Shale and sand.
2450'	2430'	20'	Shale and sand.
2430'	2410'	20'	Shale and sand.
2410'	2390'	20'	Shale and sand.
2390'	2370'	20'	Shale and sand.
2370'	2350'	20'	Shale and sand.
2350'	2330'	20'	Shale and sand.
2330'	2310'	20'	Shale and sand.
2310'	2290'	20'	Shale and sand.
2290'	2270'	20'	Shale and sand.
2270'	2250'	20'	Shale and sand.
2250'	2230'	20'	Shale and sand.
2230'	2210'	20'	Shale and sand.
2210'	2190'	20'	Shale and sand.
2190'	2170'	20'	Shale and sand.
2170'	2150'	20'	Shale and sand.
2150'	2130'	20'	Shale and sand.
2130'	2110'	20'	Shale and sand.
2110'	2090'	20'	Shale and sand.
2090'	2070'	20'	Shale and sand.
2070'	2050'	20'	Shale and sand.
2050'	2030'	20'	Shale and sand.
2030'	2010'	20'	Shale and sand.
2010'	1990'	20'	Shale and sand.
1990'	1970'	20'	Shale and sand.
1970'	1950'	20'	Shale and sand.
1950'	1930'	20'	Shale and sand.
1930'	1910'	20'	Shale and sand.
1910'	1890'	20'	Shale and sand.
1890'	1870'	20'	Shale and sand.
1870'	1850'	20'	Shale and sand.
1850'	1830'	20'	Shale and sand.
1830'	1810'	20'	Shale and sand.
1810'	1790'	20'	Shale and sand.
1790'	1770'	20'	Shale and sand.
1770'	1750'	20'	Shale and sand.
1750'	1730'	20'	Shale and sand.
1730'	1710'	20'	Shale and sand.
1710'	1690'	20'	Shale and sand.
1690'	1670'	20'	Shale and sand.
1670'	1650'	20'	Shale and sand.
1650'	1630'	20'	Shale and sand.
1630'	1610'	20'	Shale and sand.
1610'	1590'	20'	Shale and sand.
1590'	1570'	20'	Shale and sand.
1570'	1550'	20'	Shale and sand.
1550'	1530'	20'	Shale and sand.
1530'	1510'	20'	Shale and sand.
1510'	1490'	20'	Shale and sand.
1490'	1470'	20'	Shale and sand.
1470'	1450'	20'	Shale and sand.
1450'	1430'	20'	Shale and sand.
1430'	1410'	20'	Shale and sand.
1410'	1390'	20'	Shale and sand.
1390'	1370'	20'	Shale and sand.
1370'	1350'	20'	Shale and sand.
1350'	1330'	20'	Shale and sand.
1330'	1310'	20'	Shale and sand.
1310'	1290'	20'	Shale and sand.
1290'	1270'	20'	Shale and sand.
1270'	1250'	20'	Shale and sand.
1250'	1230'	20'	Shale and sand.
1230'	1210'	20'	Shale and sand.
1210'	1190'	20'	Shale and sand.
1190'	1170'	20'	Shale and sand.
1170'	1150'	20'	Shale and sand.
1150'	1130'	20'	Shale and sand.
1130'	1110'	20'	Shale and sand.
1110'	1090'	20'	Shale and sand.
1090'	1070'	20'	Shale and sand.
1070'	1050'	20'	Shale and sand.
1050'	1030'	20'	Shale and sand.
1030'	1010'	20'	Shale and sand.
1010'	990'	20'	Shale and sand.
990'	970'	20'	Shale and sand.
970'	950'	20'	Shale and sand.
950'	930'	20'	Shale and sand.
930'	910'	20'	Shale and sand.
910'	890'	20'	Shale and sand.
890'	870'	20'	Shale and sand.
870'	850'	20'	Shale and sand.
850'	830'	20'	Shale and sand.
830'	810'	20'	Shale and sand.
810'	790'	20'	Shale and sand.
790'	770'	20'	Shale and sand.
770'	750'	20'	Shale and sand.
750'	730'	20'	Shale and sand.
730'	710'	20'	Shale and sand.
710'	690'	20'	Shale and sand.
690'	670'	20'	Shale and sand.
670'	650'	20'	Shale and sand.
650'	630'	20'	Shale and sand.
630'	610'	20'	Shale and sand.
610'	590'	20'	Shale and sand.
590'	570'	20'	Shale and sand.
570'	550'	20'	Shale and sand.
550'	530'	20'	Shale and sand.
530'	510'	20'	Shale and sand.
510'	490'	20'	Shale and sand.
490'	470'	20'	Shale and sand.
470'	450'	20'	Shale and sand.
450'	430'	20'	Shale and sand.
430'	410'	20'	Shale and sand.
410'	390'	20'	Shale and sand.
390'	370'	20'	Shale and sand.
370'	350'	20'	Shale and sand.
350'	330'	20'	Shale and sand.
330'	310'	20'	Shale and sand.
310'	290'	20'	Shale and sand.
290'	270'	20'	Shale and sand.
270'	250'	20'	Shale and sand.
250'	230'	20'	Shale and sand.
230'	210'	20'	Shale and sand.
210'	190'	20'	Shale and sand.
190'	170'	20'	Shale and sand.
170'	150'	20'	Shale and sand.
150'	130'	20'	Shale and sand.
130'	110'	20'	Shale and sand.
110'	90'	20'	Shale and sand.
90'	70'	20'	Shale and sand.
70'	50'	20'	Shale and sand.
50'	30'	20'	Shale and sand.
30'	10'	20'	Shale and sand.
10'	0'	10'	Shale and sand.

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, position, and number of shots. If pipes or bridges were put in to test for water, state kind of material used, position, and results of pumping or boiling.

WELL HISTORY

Spudded 12-1/2" hole at 5:45 PM, 5-11-55. Finished 12-1/2" hole to 1396' at 10:45 PM, 5-13-55. Run 34 joints of 8-5/8" OD casing set at 1394' and cemented with 800 sacks. Cement circulated. Started drilling 7-7/8" hole from 1396' at 6:30 AM, 5-16-55 with gas. Filled with gas to 3870' TD. Ran Schlumberger Gamma Ray from surface to 3873'. Electric log survey from 1394' to 3873'. Detail microlog from 2800' to 3873'. Ran 93 joints of 5-1/2" OD casing set at 3890' with 490 sacks. Run temperature survey and found top of cement outside 5-1/2" OD casing at 425'. Perforated 5-1/2" OD casing from 3668' to 3710' with 168 jet bits. Ran 2" ID tubing set at 3853', 5-21-55. Acidized 5-1/2" OD casing perforations from 3668' to 3710' with 1000 gallons 15% HCl acid. Sand-oiled 5-1/2" OD casing perforations from 3668' to 3701' with 20,000 gallons of oil and 20,000 lbs. of sand.

COMPLETION REPORT

Swapped 262.99 bbls. oil, 15.14 bbls. gas, and 14.40 bbls. water in 24 hours with average of 4 to 5 trips per hour from 3800' fluid level scattered! Good blow of gas! Gravity 32.7 corrected. Completed 5-21-55.

DEVIATION SURVEYS

3481' - 3/4 deg. 913' - 1/4 deg., 1671' - 3/4 deg., 2119' - 1-1/4 deg. 2718' - 1-3/4 deg. 3019' - 3-3/4 deg., 3460' - 3/4 deg., 3819' - 3/4 deg.