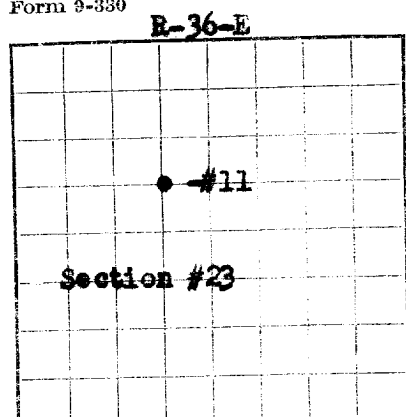




UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Amerada Petroleum Corporation Address Drewer D - Monument, New Mexico
Lessor or Tract H.W. Andrews Lease Field Lumont State New Mexico
Well No. 31-0, Sec. 23, T. 20N, R. 36E, Meridian N.M.P., County San Juan, Elevation 3987' MSL
Location 1900 ft. NW 1/4 of S. 1/4 Line and E. 1/4 of N. 3/4 Line of T. 20N, R. 36E

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.

Signed

Date Jun. 10, 1959 Title Foreman

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

Commenced drilling May 25, 1955 Finished drilling June 1, 1955

OIL OR GAS SANDS OR ZONES

[illegible]

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#		8R		1326'	Guide				
5-1/2"	15.5#		8R		3560'	Blow	3773' to 3856'			Oil Production

MUDDING AND CEMENTING RECORD

[illegible]

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

Adapters—Material _____ Size _____

ACIDIZING & FRACTURING

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
Acidized 5-1/2" OD casing perforations from 3773' to 3856' with 1000 gallons 15% Acid. Sand-oiled 5-1/2" OD casing perforations from 3773' to 3856' with 25,000						

TOOLS USED

Rotary tools were used from 0 feet to 3875 feet, and from feet to feet

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

DATES

Put to producing June 3, 1955

The production for the first 24 hours was 363.00 barrels of fluid of which 50 % was oil; ----- % emulsion; 50 % water; and ----- % sediment. Gravity, °Bé. 31.70

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. Brigham	Driller	T.L. Henson	Driller
W.E. Morris	Driller		Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0'	6'	6'	Cellar
6'	1311'	1305'	Red Beds
1311'	1416'	105'	Anhydrite
1416'	2646'	1230'	Salt, Anhydrite and shale
2646'	2798'	152'	Anhydrite and shale
2798'	2934'	136'	Anhydrite, shale and sand
2934'	3606'	672'	Anhydrite, Dolomite and sand.
3606'	3761'	155'	Dolomite and sand.

LANE-WELLS TOPS

Anhydrite	1311'
Top Salt	1416'
Base Salt	2646'
Top Yates	2798'
Base Yates	2934'
Top Queens	3606'
Penrose	3761'

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
2000'	2100'	100'	Shale and sand
1900'	2000'	100'	Shale and sand
1800'	1900'	100'	Shale and sand
1700'	1800'	100'	Shale and sand
1600'	1700'	100'	Shale and sand
1500'	1600'	100'	Shale and sand
1400'	1500'	100'	Shale and sand
1300'	1400'	100'	Shale and sand
1200'	1300'	100'	Shale and sand
1100'	1200'	100'	Shale and sand
1000'	1100'	100'	Shale and sand
900'	1000'	100'	Shale and sand
800'	900'	100'	Shale and sand
700'	800'	100'	Shale and sand
600'	700'	100'	Shale and sand
500'	600'	100'	Shale and sand
400'	500'	100'	Shale and sand
300'	400'	100'	Shale and sand
200'	300'	100'	Shale and sand
100'	200'	100'	Shale and sand
0'	100'	100'	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, size, 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 testing.

WELL HISTORY

Spudded 12-1/2" hole at 2:00 PM, 5-25-55. Finished 12-1/2" hole to 1348' at 11:45 AM, 5-27-55. Ran 32 joints of 8-5/8" OD casing set at 1343' and cemented with 800 sacks. Cement drilled. Started drilling 7-7/8" hole from 1348' at 9:30 PM, 5-28-55 with gas. Drilled with gas to 3875' T.D. Ran 119 joints of 5-1/2" OD casing set at 3875' with 400 sacks. Ran Temperature survey and found top of cement outside from surface to 3873'. Detailed from 2750' to 3873'. Performed 5-1/2" OD casing from 3773' to 3856' with 332 type "H" bullets. Ran 2" EUE tubing set at 3859', 6-3-55. Added 5-1/2" OD casing performance from 3773' to 3856' with 1000 gallons 15% BST Acid. Sand-oiled 5-1/2" OD casing performance from 3773' to 3856' with 25,000 gallons of oil and 25,000 lbs. of sand.

COMPLETION REPORT

Flowed 183.00 barrels oil and 180.00 barrels of water in 24 hours on 28/64" choke. IP 160# to 250#. Gas Volume 409,797 CFPD; GOR 2239; Gravity oil 34.9 corrected. Well completed 6-3-55

DRAINAGE SURVEYS

109' - 1/4 deg.; 942' - 1 deg.; 11528' - 3/4 deg.; 1522' - 3/4 deg.; 2328' - 3/4 deg.; 2376' - 2 deg.; 3148' - 2-1/4 deg.; 3581' - 1-3/4 deg.; 3758' - 1-1/2 deg.