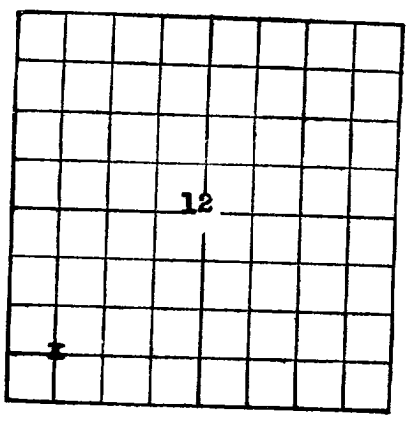
Form 9-330



LOCATE WELL CORRECTLY

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 046164-A
LEASE OR PERMIT TO PROSPECT Hazel Wolff Andrews - Lease

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

RECEIVED APR 7 1937

LOG OF OIL OR GAS WELL

Company Amerada Petroleum Corporation Address Monument, New Mexico

Lessor or Tract Hazel Wolff Andrews Field Monument State New Mexico

Well No. 6 Sec. 12 T. 20 R. 36 Meridian ____ County Lea

Location 660' ft. {N.} of South Line and 660' ft. {E.} of West Line of 12 - 20 - 36 Elevation 3565'
(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.

Signed F. A. Stanley

Date April 7, 1937 Title Supt.

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

Commenced drilling February 23, 1937, 19____ Finished drilling March 27, 1937, 19____

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3798' to 3873'. No. 4, from ____ to ____

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

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

IMPORTANT WATER SANDS

No. 1, from None to ____ No. 3, from ____ to ____

No. 2, from ____ to ____ No. 4, from ____ to ____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From	Perforated To	Purpose
12½"	40#	8-Thd.	L.W.	178'4"	Texas Pattern				
8-5/8"	32#	8-Thd.	Smls.	2062'4"	Baker Baffle				
6-5/8"	20#	10-Thd.	Smls.	3769'8"	Texas Pattern				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
12½"	193'	200	Halliburton		
8-5/8"	2360'	600	Halliburton		
6-5/8"	3754'	100	Halliburton		

PLUGS AND ADAPTERS

Heaving plug—Material ____ Length ____ Depth set ____

Adapters—Material ____ Size ____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from 0 feet to 3873' feet, and from ____ feet to ____ feet

Cable tools were used from 0 feet to ____ feet, and from ____ feet to ____ feet

DATES

April 7, 1937 19____ Put to producing March 28, 1937, 19____

The production for the first 24 hours was 110½ barrels of fluid of which 100 % was oil; ____ % emulsion; ____ % water; and ____ % sediment. Gravity, °Bé. 32.

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

Rock pressure, lbs. per sq. in. ____

EMPLOYEES

Jess George, Driller Pat Ballew, Driller

Robert E. Morrison, Driller ____, Driller

FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION
0	18	18	Cellar and substructure.
18	90	72	Sand and gravel.
90	140	50	Red sand rock.
140	210	70	Red bed and red rock stringers. Set 12½" Csg.
210	835	625	Red bed, red rock shells. at 193' w/ 200 sack
835	911	76	Red shale, shells, red rock and gyp.
911	982	71	Red sandy shale.
982	990	8	Anhydrite and red rock.
990	1007	17	Anhydrite. Top of anhydrite 988'.
1007	1012	5	Red bed.
1012	1055	43	Anhydrite.
1055	1165	110	Anhydrite and red shale.
1165	1270	105	Salt and anhydrite and red bed.
1270	1295	25	Anhydrite.
1295	1300	5	Salt.
1300	1322	22	Anhydrite.
1322	1675	353	Salt and anhydrite.
1675	1709	34	Anhydrite.
1709	1880	171	Anhydrite and salt.
1880	2052	172	Salt and shells.
2052	2090	38	Salt and anhydrite.
2090	2100	10	Gyp and anhydrite.
2100	2120	20	Salt and anhydrite.
2120	2138	18	Gyp and anhydrite.
2138	2147	9	Anhydrite andpotash.
2147	2297	150	Salt and shells. Base of salt 2297'.

FORMATION RECORD Continued

(OVER)

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FOLD | MARK

FORMATION RECORD—Continued

FROM	TO	TOTAL FEET	FORMATION
2297	2366	69	Anhydrite. Set 8-5/8" csg. At 2360' w/ 600 sacks
2366	2424	58	Anhydrite and gypsum.
2424	2531	107	Anhydrite.
2531	2573	42	Anhydrite and gyp. Gas show 2570'-73'
2573	2889	316	Lime and anhydrite. Top of Monument lime 2630'
2889	2928	39	Brown lime.
2928	2963	35	Lime.
2963	2988	25	Gyp and lime.
2988	3000	12	Lime.
3000	3003	3	Sand. Gas show.
3003	3016	13	Sandy lime.
3016	3041	25	Gray sand.
3041	3075	34	Hard lime.
3075	3106	31	Hard gray lime. (sandy).
3106	3165	59	Hard lime. Gas show at 3154'-56".
3165	3263	98	Lime.
3263	3294	31	Lime and gray sand.
3294	3747	453	Lime.
3747	3800	53	Sandy lime. Set 6-5/8" csg. At 3754' w/ 100 sack
3800	3831	31	Sandy lime.
3831	3873	42	Lime.
			Top of pay 3798'.

3/28/37 3873' T.D. Broken lime. Set 3860' of 2½" upset tubing. Swabbed in and flowed 110½ barrels oil on 15 hour test. Flowed on 1" open choke the first 7 hours and made 80 barrels oil w/ gas rate of 1,320,000. Gas oil ratio 4356. Last 8 hours of test the well flowed on 32/64" Choke and made 21½ barrels w/ daily gas rate of 680,000. Gas oil ratio 10303. Pipe line oil. Tubing pressure 1000#. Casing pressure 1200#.

3/29/37 3873' T.D. Broken lime. Killed well and pulled tubing and re-run w/ packer Packer set at 3803' w/ perforation below. Packer did not hold. Re-set packer at 3 3795'. Did not hold. Killed well and pulled tubing and packer. Re-run tubing w/ packer. Packer stopped 45' off bottom. Pulled out of hole and went in w/ spear. Recovered rubbers.

3/31/37 Packer would not go down. Pulled tubing and packer. Went in w/ drill pipe and washed hole to bottom and measured up.

4/1/37 3873' T.D. Broken lime. Set 3872' of 2½" upset tubing w/ out the packer. Started swabbing and lost swab. Pulled tubing and recovered swab. Re-run tubing without packer and set tubing at 3873'.

4/2/37 Swabbed in and flowed 38 barrels oil on 4 hour test. Flowed 13.5 bbls oil on 1 hour test through 1" open choke, Daily gas rate of 840,000 . Gas oil ratio 5185.

4/3/37 Flowed On 1" open choke for 8 hours and made 60 barrels. Hourly average of 7.5 barrels. Gas volume of 960,000. Gas oil ratio 5333.

GOVERNMENT PRINTING OFFICE 6—6745

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 plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.