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Form 9-330

Bureau No. 42-R355.1.
Approval expires 11-30-49.

U. S. Land Office Las Cruces
Serial Number 028992-A
Lease or Permit to Prospect Woolley-Arnold

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Roland Rich Woolley Address Box 456, Artesia, New Mexico
Lessor or Tract Woolley-Arnold Field Premier State New Mexico
Well No. 13-A Sec. 23 T. 17S R. 30E Meridian NMPM County Eddy
Location 330 ft. {N./S.} of S Line and 1270 ft. {E./W.} of W Line of Sec. 23 Elevation 3589 (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 J. L. Briscoe
Date April 23, 1950 Title Superintendent

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

Commenced drilling March 6, 1950 Finished drilling April 17, 1950

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1940 to 1950 (Sev.Riv) No. 4, from 3165 to 3172
No. 2, from 1971 to 1980 (Sev. Riv) No. 5, from 3186 to 3195
No. 3, from 3120 to 3140 No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 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
8-5/8"	28#	8rd	New	504	Plain				
7"	20#	8rd	New	3059	Texas				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	504	50	Halliburton		Top to bottom
7"	3059	100	"		"

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
3	5"				3127-3199	
2	2-1/2"	Nitro	200 qts	4-17-50		3217 TD

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
Cable tools were used from 0 feet to 3217 feet, and from feet to feet

DATES

April 23, 1950 Put to producing May 1, 1950

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

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

Rock pressure, lbs. per sq. in.

EMPLOYEES

W. E. Fleming, Driller P. W. Clifford, Driller
W. H. Settlemire, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	20	20	Caliche
20	115	95	red bed
115	160	45	sand
160	200	40	sandy red rock
200	240	40	red bed
240	370	130	anhy
370	415	45	red bed
415	445	30	anhy
445	470	25	red bed
470	1043	573	salt
1043	1054	11	palladolite
1054	1150	96	salt
1150	1205	55	salt & anhy
1205	1405	200	anhy
1405	1450	45	anhy & red shale
1450	1460	10	red bed sand
1460	1505	45	anhy
1505	1540	35	anhy & shale
1540	1690	150	anhy
1690	1725	35	anhy & shale breaks
1725	1800	75	anhy
1800	1810	10	anhy & brown lime
1810	1971	161	anhy (Oil stain 1940-50)
1971	1980	9	anhy & br. lime (light show oil & gas)
1980	2140	160	anhy

(OVER)

16—43094-2

FOLD | MARK

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
2140	2175	35	anhy & red bed breaks
2175	2385	210	anhy
2385	2396	11	anhy & red sand (oil show 2387-96)
2396	2430	34	red sand Pn.
2430	2660	230	anhy
2660	2685	25	red bed & anhy
2685	2700	15	anhy
2700	2715	15	sand & anhy shells
2715	2738	23	anhy
2738	2758	20	gray lime Gb.
2758	2770	12	broken anhy
2770	2782	12	anhy
2782	2795	13	anhy & red rock
2795	2830	35	broken lime
2830	2995	165	gray lime
2995	3015	20	white lime
3015	3035	20	gray lime
3035	3059	24	white lime
3059	3071	12	gray lime
3071	3078	7	dark gray lime
3078	3105	27	gray lime
3105	3110	5	sandy lime
3110	3116	6	gray lime
3116	3135	19	white lime (oil show 3132-3140)
3135	3162	7	brown lime
3162	3180	18	white lime (oil show 3165-72)
3180	3195	15	lime & sand (oil show 3186-95)
3195	3205	10	white lime
3205	3208	3	gray lime
3208	3217	9	Pink lime (Total Depth)

HISTORY OF OIL OR GAS WELL

16—43094-1 U. S. GOVERNMENT PRINTING OFFICE

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.

Company ..... Address .....

Lessor or Farm ..... Field ..... State .....

Well No. ..... Sec. ..... T. ..... R. ..... Meridian ..... County .....

Location ..... ft. {N/S} of ..... Line and ..... ft. {E/W} of ..... Line of ..... Elevation ..... (Derrick floor above 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 ..... Title .....

Date .....

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

Commenced drilling ..... 19..... Finished drilling ..... 19.....

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from ..... to ..... 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 ..... 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	Purpose

SHOOTING RECORD

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

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 ..... 19.....

The production for the first 24 hours was ..... barrels of fluid of which ..... % was oil; ..... % emulsion; ..... % water; and ..... % sediment.

Gravity, Be°

If gas well, cu. ft. per 24 hours .....

Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

..... Driller

..... Driller

FORMATION RECORD

..... Driller

..... Driller

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