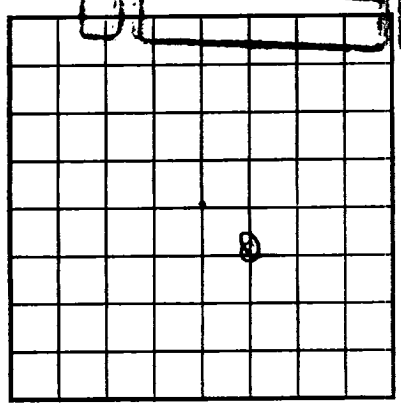
DUPLICATE



LOCATE WELL CORRECTLY

Form 9-330 Bureau No. 42-R355.1.
Approval expires 11-30-49.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 030132
LEASE OR PERMIT TO PROSPECT Closson

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Empire Gas & Fuel Address Carlsbad, New Mexico

Lessor or Tract Closson Field Eunice State New Mexico

Well No. 1 Sec. 6 T. 22 R. 36 Meridian ____ County Lea

Location 2310 ft. {N./S.} of S. Line and 1650 ft. {E./W.} of E. Line of Sec. 6 Elevation ____ (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 ____

Date June 6, 1930 Title ____

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

Commenced drilling May 12, 19 29 Finished drilling May 25, 19 30

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from G-3430 to 3490 No. 4, from 3767 to 3778

No. 2, from G-3555 to 3565 No. 5, from ____ to ____

No. 3, from 3738 to 3745 No. 6, from ____ to ____

IMPORTANT WATER SANDS

No. 1, from 925 to 975 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
20	20	8		226		Left in			
15 7	15	8		575		"			
12½	50	8		975		"			
10	40	8		1507		"			
8	32			3295		"			
6-5/8"	24	10		3576		"			
5-3/16	20	10		3737		"			

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10	1507	75			
8	3295	100			
6-5/8	3576	75			
5-3/16	3737	75			

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 ____ feet to ____ feet, and from ____ feet to ____ feet

Cable tools were used from 0 feet to 4237 feet, and from ____ feet to ____ feet

DATES

____, 19____ Put to producing ____, 19____

The production for the first 24 hours was 150 barrels of fluid of which ____ % 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

H. Hills, Driller ____, Driller

J. Dowse, Driller ____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	10	10	Caliche
10	220	210	Sand
220	225	5	Lime
225	250	25	Sand
250	300	50	Red rock
300	305	5	Hard shell
305	350	45	Red rock
350	450	100	Brown shale
450	680	230	Red rock
680	715	35	Brown shale
715	725	10	Sand
725	755	30	Brown sandy shale
755	825	70	Red rock
825	XXXX 835	10	Sandy shale
835	865	30	Red rock
865	890	25	Water sand
890	905	15	Hard sand
905	925	20	Broken sands
925	1010	85	Water sand
1010	1030	20	Red rock
1030	1045	15	Sand
1045	1110	65	Sandy shale
1110	1130	20	Red rock
1130	1145	15	Sand
1145	1165	20	Red rock
FROM—	TO—	TOTAL FEET	FORMATION

(OVER)

16-43004-2

FOLD | MARK

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
1165	1170	150	Hard sand
1170	1270	100	Red rock
1270	1295	25	Sand
1295	1490	195	Red rock (sandy)
1490	1540	50	Anhydrite
1540	1550	10	Salt
1550	1620	70	Anhydrite
1620	1695	75	Salt
1695	1740	45	Anhydrite
1740	1750	10	Red rock
1750	1770	20	Salt
1770	1810	40	Anhydrite
1810	1835	20	Red sand
1835	1845	10	Salt
1845	1860	15	Sand
1860	1935	75	Salt
1935	1990	55	Anhydrite
1990	2040	50	Salt
2040	2060	20	Red salt
2060	2085	25	Salt
2085	2115	30	Anhydrite
2115	2370	255	Salt
2370	2400	30	Anhydrite
2400	2565	165	Salt
2565	2575	10	Red rock
2575	2655	80	Salt
2655	2705	50	Anhydrite
2705	2730	25	Salt
2730	2750	20	Anhydrite
2750	2840	90	Salt
2840	2895	55	Anhydrite
2895	3050	155	Salt
3050	3060	10	Anhydtite
3060	3205	145	Lime
3205	3265	60	Anhydrite
3265	3280	15	Shale
3280	3300	20	Lime
3300	3395	95	Sandy lime
3395	3480	85	Hard lime(show gas at 3315)
3480	3490	10	Porous lime (25 M fett gas 3480-90)
3490	3510	20	Hard lime
3510	3515	5	Porous lime(68 M feet gas 3415)
3515	3555	40	Hard lime
3555	3565	10	Porous lime (120 M gas sulphur) at 3555-3565
3565	3590	25	Hard lime Ran 6-5/8 casing 3576
3590	3613	23	Lime
3613	3616	3	Brown sandy lime (trace of oil)
3616	3621	5	Lime
3621	3627	6	Broken lime
3627	3640	13	Lime
3640	3655	15	Broken line and shale
3655	3685	30	Hard lime
3685	3703	18	Lime(nailed hole and test 60 million gas)
3703	3731	28	Lime
3731	3738	7	Sandy lime
3738	3745	7	Fine sand (trace of oil)
3745	3749	4	Lime
3749	3764	15	Lime

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.

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR

UNITED STATES

HOBBS NEW MEXICO