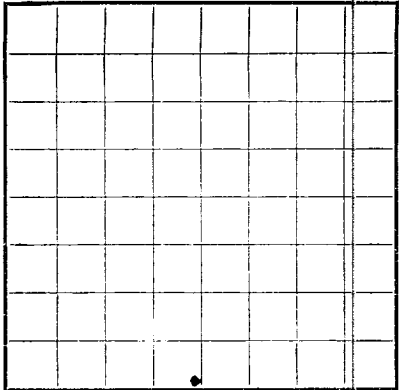


U. S. LAND OFFICE Las Cruces

SERIAL NUMBER 029405-B

~~XXXXXXXXXXXXXXXXXXXX~~

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



LOG OF OIL OR GAS WELL

Company Buffalo Oil Company Address Artesia, New Mexico
Lessor or Tract Mitchell B Field Maljamar State New Mexico
Well No. I.P. 36 Sec. 20 T. 17 R. 32 Meridian N.M.P.M. County Lea
Location 25 ft. ^{N.} of S Line and 2590 ft. ^{E.} of W Line of Sec. 20 Elevation 3974
(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 /S/ Ralph L. Gray

Date February 4, 1949 Title Assistant Superintendent

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

Commenced drilling October 15, 1948 Finished drilling January 10, 1949

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3722 to 3752 No. 4, from 3890 to 4000
No. 2, from 3811 to 3863 No. 5, from 4020 to 4035
No. 3, from 3890 to 3897 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
							From—	To—	
10-3/4OD	40.5	8 rd	H-40	55	regular	none			conductor
5-1/2OD	14&15.5	8 rd	J-55	3673	"	"			oil string

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4OD	60'	50	Pump		none
5-1/2OD	3653	250	"		25 sacks

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
3-1/2	tin	nitroglycerine	60 qts.	1/15/49	3722-52	4048

TOOLS USED

Rotary tools were used from 3897 feet to 4048 feet, and from _____ feet to _____ feet
Cable tools were used from 0 feet to 3897 feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing * see below, 19____

The production for the first 24 hours was _____ 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

C. W. Hammond, Driller B. G. Sharp, Driller
Walter, Driller L. T. Clements, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	60	60	Caliche
60	685	625	Red Beds
685	835	150	Anhydrite
835	845	10	Red Rock
845	855	10	Anhydrite
855	880	25	Red Bed
880	1720	840	Salt
1720	1735	15	Salt and Anhydrite
1735	1870	135	Salt
1870	1895	25	Salt and Anhydrite
1895	1915	20	Lime and Anhydrite
1915	1955	40	Shale and Anhydrite
1955	2265	310	Shale and Anhydrite
2265	2270	5	Sand and Anhydrite. Trace of oil and gas.
2270	2395	125	Anhydrite
2395	2400	5	Anhy. and Sand. Trace oil and gas.
2400	3050	650	Anhydrite
3050	3080	30	Red Sand
3080	3350	270	Anhydrite and lime
3350	3715	365	Lime
3715	3749	34	Sandy lime
3749	4048	299	Lime

* This is a gas injection well and will not be produced.

FORMATION RECORD—Continued

[illegible]

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.

HISTORY OF OIL OR GAS WELL

10-48094-2 U. S. GOVERNMENT PRINTING OFFICE

This well was drilled for the purpose of injecting gas into the Maljamar pool. Cable tools were used to 3897 and hole was finished at 4048 using Beckman reverse circulation. A spinner survey showed 100% loss of fluid between 3986 and 3996. On January 15, 1949, well was shot from 3722-52 with 60 qts. of nitroglycerine and was cleaned out to total depth. Gas injection will be started soon.