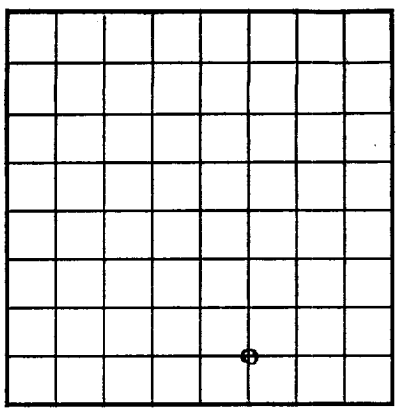
Budget Bureau No. 42-R355.1.
Approval expires 11-30-49.

Form 9-330

U. S. Land Office Las Cruces
Serial Number 029405-B
Lease or Permit to Prospect Lease



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Maljamar Oil & Gas Corp. Address Artesia, New Mexico
Lessor or Tract Wm. Mitchell B Field Baish State New Mexico
Well No. B-4 Sec. 20 T. 17 S. R. 32E Meridian N M P M County Lea
Location 660 ft. {N.} of S Line and 1980 ft. {E.} of E Line of Sec. 20 Elevation 3977
(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 August 6, 1940 Title V. President

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

Commenced drilling May 6, 1940 Finished drilling June 24, 1940

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2265 to 2275 No. 4, from 3275 to 3279 G
No. 2, from 2385 to 2403 No. 5, from 3555 to 3561
No. 3, from 3056 to 3068 No. 6, from 3715 to 3743

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"	32	8	Yrst	880	Texas				
7"	20	8	J&L	3550	"				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8"	880	50	Halliburton		
8"	3550	150	"		

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
		Did not shoot or acidize				

TOOLS USED

Rotary tools were used from 0 feet to 3743 feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

DATES

, 19 Put to producing , 19

The production for the first 24 hours was 263 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

C. E. Sole, Driller A. M. Paton, Driller
H. R. Fisher, Driller H. D. Daughtry, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	10	10	Sand
10	25	15	Caliche
25	45	20	Sandy shale
45	60	15	Sand
60	75	15	Red bed
75	90	15	Red rock
90	120	30	Gyp rock
120	125	5	Blue mud
125	165	40	Red mud
165	195	30	Red bed
195	285	90	Red bed
285	415	130	Red rock
415	430	15	Anhydrite and red rock, broken
430	440	10	Sand
440	455	15	Red rock
455	545	90	Red sandy shale
545	555	10	Red rock
555	595	40	Red rock and shells
595	620	35	Sandy shale
620	630	10	Sand. Reduced hole at 630' from 15½"-10
630	650	20	Red shale
650	685	35	Red rock
685	705	20	Red rock & shells
705	820	115	Anhydrite
820	825	5	Anhydrite, hard
825	850	25	Anhydrite

(OVER)

16—43094-2

FOLD | MARK

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
850	860	10	Anhydrite, hard
860	870	10	Anhydrite, borken
870	885	15	Anhydrite & red beds. Set 8" casing
885	896	11	Salt & Red bed, broken 50 sks cement.
896	950	54	Salt
950	980	30	Potash
980	1010	30	Salt
1010	1025	15	Anhydrite & Salt
1025	1170	145	Salt
1170	1185	15	Potash
1185	1560	375	Salt
1560	1615	55	Potash and salt
1615	1635	20	Salt
1635	1675	40	Salt & potash
1675	1725	50	Salt
1725	1740	15	Potash
1740	1780	40	Potash and salt
1780	1895	15	Salt
1895	2100	205	Anhydrite
2100	2115	15	Red rock
2115	2130	15	Anhydrite
2130	2145	15	Anhydrite & red rock
2145	2185	40	Anhydrite
2185	2200	15	Anhydrite & red rock
2200	2215	15	Anhydrite
2215	2225	10	Anhydrite & red rock
2225	2238	13	Anhydrite
2238	2250	12	Anhydrite & red rock
2250	2265	15	Anhydrite
2265	2275	10	Anhydrite & sand
2275	2345	70	Anhydrite
2345	2350	5	Lime & Anhydrite
2350	2375	25	Anhydrite
2375	2381	6	Anhydrite & brown lime
2381	2392	11	Anhydrite & gray sand
2392	2403	11	Anhydrite & brown lime & gray sand
2403	2420	17	Anhydrite
2420	2434	14	Anhydrite & Red sand
2434	2746	12	Anhydrite
2746	2765	19	Anhydrite & lime
2765	2775	10	Anhydrite
2775	2798	13	Anhydrite & Red rock
2798	2890	82	Anhydrite
2890	2900	10	Anhydrite and red rock
2900	2957	57	Anhydrite
2957	2966	9	Anhydrite, hard
2966	3020	56	Anhydrite
3020	3026	6	Lime
3026	3042	16	Red sand
3042	3056	14	Depth of hole corrected by steel line
3056	3068	12	Grayish brown sand, Good oil show
3068	3078	10	Sand and anhydrite
3078	3090	12	Anhydrite
3090	3108	18	Lime & anhydirte
3108	3120	12	Anhydrite and red sand
3120	3131	11	Anhydrite
3131	3138	7	Sandy lime
3138	3263	1 25	Anhydrite
3263	3275	12	Brown lime
3275	3288	13	Red sand and anhydrite
3288	3295	7	Red sand
3295	3305	10	Red rock
3305	3322	17	Anhydrite
3322	3333	11	Lime

HISTORY OF OIL OR GAS WELL

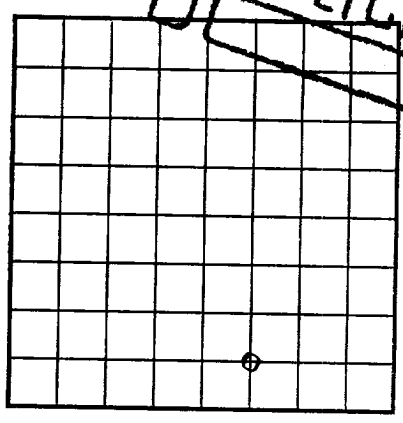
16—43094-1 U. S. GOVERNMENT PRINTING OFFICE

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.

3333	3350	17	Anhydrite
3350	3357	7	Anhydrite & red rock
3357	3370	13	Anhydrite & red sand
3370	3380	10	Anhydrite
3380	3392	12	Brown lime
3392	3400	8	Anhydrite and lime
3400	3430	30	Lime
3430	3438	8	Lime, hard
3438	3464	26	Lime
3464	3473	9	Lime, hard
3473	3480	7	Lime
3480	3485	5	Lime, hard
3485	3542	57	Lime
3542	3550	8	Depth of hole corrected from 3542-3550
3550			Set 7" pipe, 150 sacks cement
3550	3638	88	Lime
3638	3645	7	Sandy lime
3645	3652	7	Sandy lime
3652	3659	7	Lime
3659	3671	12	Sandy lime
3671	3697	26	Sandy lime. Top of sand 3691
3697	3701	4	Lime
3701	3711	10	Sandy lime
3711	3715	4	Sandy lime
3715	3734	19	Sand oil
3734	3740	6	Sand
3740	3743	3	Sand
3743	3744	1	Sandy lime

Form 9-330

DUPLICATE



LOCATE WELL CORRECTLY

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

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 029405-B
LEASE OR PERMIT TO PROSPECT Lease

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEEPENING

LOG OF OIL OR GAS WELL

Company BUFFALO OIL COMPANY Address Artesia, New Mexico, Box 265

Lessor or Tract Wm. Mitchell Field Maljamar State New Mexico

Well No. B 4 Sec. 20 T. 17 R. 32 Meridian NMPM County Lea

Location 660 ft. {N.} of S Line and 1980 ft. {E.} of E Line of Sec. 20 Elevation 3977
(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/ H. G. Ellis

Date April 7, 1947 Title Superintendent

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

Commenced drilling March 5, 1947 Finished drilling March 15, 1947

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3780 to 3850 No. 4, from ____ to ____

No. 2, from 3973 to 4055 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
		No change							

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
		No change			

PLUGS AND ADAPTERS

Heaving plug—Material ____ Length ____ Depth set ____

Adapters—Material None Size ____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
4½	Tin	Nitroglycerin	270 qt	3/15	3973-4055	
4½	"	"	220 "	3/16	3780-3850	

TOOLS USED

Reverse Circulation

Rotary tools were used from 3741 feet to 4055 feet, and from ____ feet to ____ feet

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

DATES

____, 19____ Put to producing ____, 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

Beckman, Inc., Driller Geo. Whitley, Jr., Driller

J. W. Handley, Driller ____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
		DEEPENING RECORD	
3741	4055	314	Lime
		See History of well	

(OVER)

FOLD

MARK

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

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

HISTORY OF OIL OR GAS WELL

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This well was completed to 3741' on June 24, 1940, with an initial production of 263 barrels of oil the first twenty-four hours, and was produced to May 1, 1942. In May 1942, the well was taken as a repressuring gas injection well, and was used for that purpose until January 1, 1947. The repressuring gas injection well pattern having been changed and new wells drilled for that purpose, this well was abandoned for injection purposes and shut-in. In March 1947, the well was deepened through the 7th and 9th zones and shot as shown by this deepening log.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL