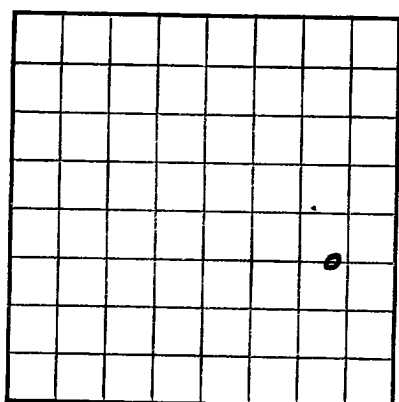


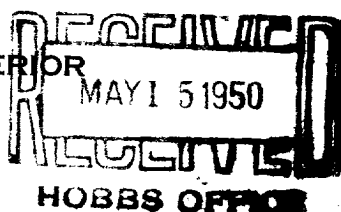
Budget Bureau 42-R355.1
Approval exp. 11-30-49.

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 **Buffalo Oil Company** Address **Artesia, New Mexico,**
Lessor or Tract **Wm. Mitchell "B"** Field **Wildcat** State **New Mexico**
Well No. **B-20-P** Sec. **19** T. **17** R. **32** Meridian **NMPM** County **La**
Location **1930t. {N.} of S. Line and 340t. {W.} of S. Line of Section 19** Elevation **5949'**
(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 *[Signature]*

Date **May 8, 1950** Title _____

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

Commenced drilling **March 5,** 19 **50** Finished drilling **April 20,** 19 **50**

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from _____ to _____ No. 4, from **4206** to **4246**
No. 2, from _____ to _____ No. 5, from **5271** to **5288**
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
							From—	To—	
15-3/8	141	4-11/16	3-55	3-55	Regular	5000			Capstan
8-5/8	83	3-1/8	3-55	3-55	Triplex	5000			Production
5-1/2	117	2-1/4	3-55	3-55	Triplex & Collar	5000			Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
15-3/8	109'	100	Pump		Cement to surface
8-5/8	2491	1945	"		Cement to surface
5-1/2	5286	580	"	Top of cement behind pipe 2845'	

PLUGS AND ADAPTERS

Heaving plug—Material **None** Length **300** Depth set **5000**
Adapters—Material **None** Size **5-1/2**

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Depth shot	Depth cleaned out
1900	2 1/2"	Black	1000	5000	5000
April 25	Acid jet wash w/1000 gal. 15% acid	500 gal. mud acid	5281'	to 5000'	
27	1500 Gallons 10% acid	1000 gal. mud acid	5281'	to 5000'	
29	3000 Gallons 10% acid	1000 gal. mud acid	5281'	to 5000'	

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

May 2, 19 **50** Put to producing **May 1,** 19 **50**

The production for the first 24 hours was **158** barrels of fluid of which **99.8** % was oil; **0.2** % emulsion; _____ % water; and _____ % sediment.

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas **39.6 API**

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Permian Drilling Company, Driller **A. L. Yarbrough**

R. N. Boland, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	9	9	Rotary was to ground
9	25	16	Shale
25	325	300	Shale
325	629	304	Red beds and anhydrite shells
629	775	146	Anhydrite
775	1142	367	Anhydrite and salt streaks
1142	1875	733	Salt and anhydrite streaks
1875	2106	231	Anhydrite
2106	2588	482	Anhydrite, gypsum and shale streaks
2588	3172	584	Anhydrite, gypsum and lime
3172	3349	177	Anhydrite, lime and shale
3349	4206	857	Anhydrite and lime
4206	4246	40	Line
4246	4670	424	CORED Dolomite
4670	4882	12	Line
4882	4892	10	CORED Dark dense gray dolomite w/short nodules
4892	4892	0	CORED Dark dense brown dolomite w/light porosity
4892	5040	148	Line
5040	5075	35	Line
5075	5090	15	CORED Brown dolomite w/scattered porosity
5090	5166	76	Line
5166	5175	9	CORED Porous dolomite

FORMATION RECORD—Continued

