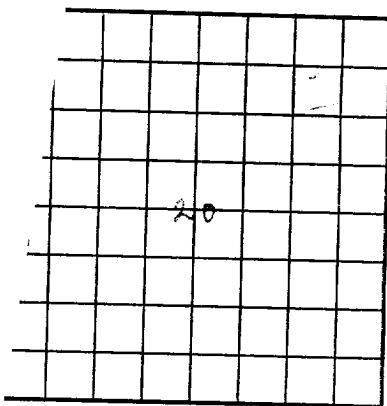
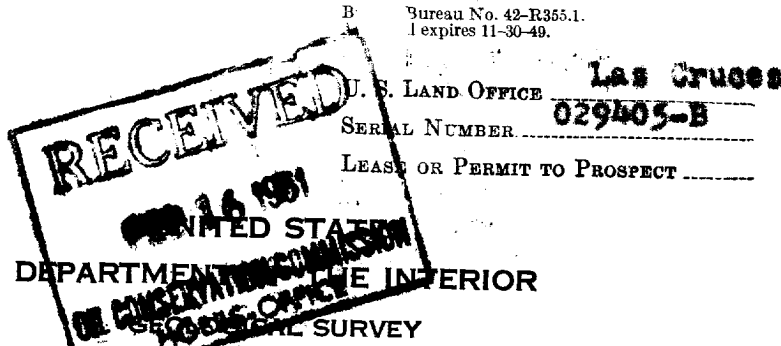




LOCATE WELL CORRECTLY



LOG OF OIL OR GAS WELL

Company Buffalo Oil Company Address Box 686, Artesia, New Mexico
Lessor or Tract Wm. Mitchell B Field Maljamar State New Mexico
Well No. IP-18 Sec. 20 T. 17S R. 32E Meridian NMPM County Lea
Location 2615 ft. N of S Line and 25 ft. E of W Line of Sec. 20 Elevation 3942 DF
(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 February 14, 1951Title Asst. Supt

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

Commenced drilling Sept. 23, 19 50 Finished drilling Dec. 7, 19 50

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3581 to 3630-good No. 4, from 3923 to 3971 slight
No. 2, from 3722 to 3742-slight No. 5, from 3971 to 3977 good
No. 3, from 3880 to 3903-slight 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—	
<u>3-1/2 OD</u>	<u>40.5</u>	<u>8</u>	<u>72'</u>	<u>guide</u>					<u>surface</u>
<u>7' OD</u>	<u>35.6</u>	<u>8</u>	<u>250</u>	<u>250'</u>	<u>250'</u>				<u>production</u>
HISTORY OF OIL OR GAS WELL									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>10-3/4 OD</u>	<u>72'</u>	<u>70</u>	<u>pump</u>		
<u>7' OD</u>	<u>3560</u>	<u>250</u>	<u>pump</u>		

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
<u>3-1/2"</u>		<u>Nitroglycerine</u>	<u>50 lbs</u>	<u>12-11</u>	<u>3630-3590</u>	<u>3675</u>
<u>4-1/2"</u>			<u>70</u>	<u>2-2-51</u>	<u>3902-3882</u>	
<u>4-1/2"</u>			<u>1170</u>		<u>3977-3921</u>	<u>3977</u>

Acidized below 3704' on Jan. 27-1951 with 1000 gals. Dowell K-15 acid

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from surface feet to 3977 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 _____

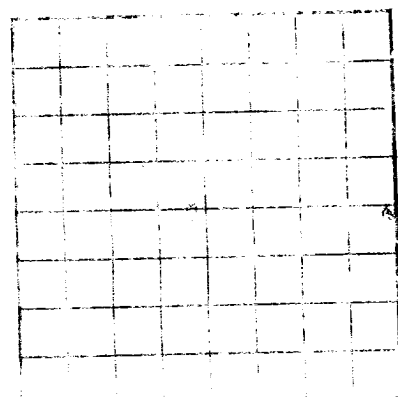
Rock pressure, lbs. per sq. in. _____

EMPLOYEES

G. H. Hammond, Driller _____, Driller
B. H. Alter, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>Surface</u>	<u>77</u>		<u>Sand</u>
<u>77</u>	<u>390</u>		<u>Red rock</u>
<u>390</u>	<u>405</u>		<u>Sand</u>
<u>405</u>	<u>450</u>		<u>Red rock</u>
<u>450</u>	<u>570</u>		<u>Sandy Shale</u>
<u>570</u>	<u>630</u>		<u>Red Rock</u>
<u>630</u>	<u>830</u>		<u>Anhydrite</u>
<u>830</u>	<u>895</u>		<u>Salt</u>
<u>895</u>	<u>910</u>		<u>Anhydrite</u>
<u>910</u>	<u>1790</u>		<u>Salt</u>
<u>1790</u>	<u>1795</u>		<u>Red Bed</u>
<u>1795</u>	<u>1995</u>		<u>Anhydrite</u>
<u>1995</u>	<u>2005</u>		<u>Red shale</u>
<u>2005</u>	<u>2170</u>		<u>Anhydrite</u>
<u>2170</u>	<u>2190</u>		<u>Sand, Air & Gas pocket 2191. Show oil</u>
<u>2190</u>	<u>3030</u>		<u>Anhydrite</u>
<u>3030</u>	<u>3070</u>		<u>Anhydrite & lime</u>
<u>3070</u>	<u>3255</u>		<u>Anhydrite</u>
<u>3255</u>	<u>3265</u>		<u>Lime</u>
<u>3265</u>	<u>3300</u>		<u>Anhydrite</u>
<u>3300</u>	<u>3325</u>		<u>Anhydrite & Lime</u>
<u>3325</u>	<u>3977</u>		<u>Lime oil & gas 3590-3600-flowed</u>



LOCATE WELL CORRECT X

[illegible]

proper.

Ran caliper and spinner surveys. Ran tubing with formation
 packer and set at 3204. Swapped below packer at rate of about
 5 bbls. cty per day. Attempted to acidize with 750 gals. Dowell
 XX 20% acid but only 400 gals. injected when pressure built up
 from 1000# to 1750#. No benefit from acid. After cleaning up, well
 acidized below packer with 1000 gals. N-18, 15% acid but little or
 no benefit was obtained. After short test packer started leaking,
 so 96h. zone was then shot with nitroglycerine as shown on shooting
 record.

CASING RECORD

[illegible]

HISTORY OF OIL OR GAS WELL

[illegible]

PLUGS AND ADAPTERS

SHOOTING RECORD		
Adapters—Material	Size	Length
Leaving plug—Material	Length	Depth set

SHOOTING RECORD

[illegible]

TOOT 2100

1961	feet to	feet and from	feet to	feet and from
1961	feet to	feet and from	feet to	feet and from

DATA

Back pressure lbs per sq in		
If gas well, cu ft per 24 hours		Gallons gasoline per 1,000 cu ft. of gas
Mud loss; % water; and % sediment		Gravity, °Bé
The production for the first 24 hours was	barrels of fluid of which	% was oil;
	Put to producing	

EMPLOYEES

Driller	Driller	
Driller	Driller	

FORMATION RECORD

[illegible]

FORMATION RECORD—Continued