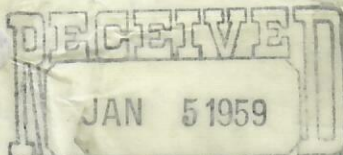


Form 9-830

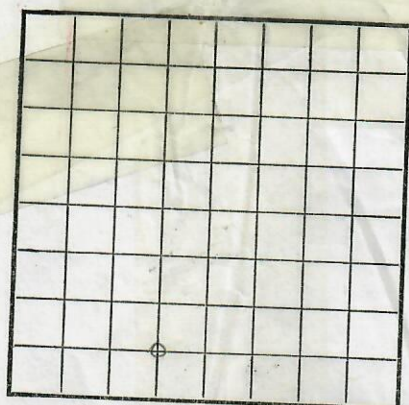
Bureau No. 42-R355.4
Approval expires 12-31-60.U. S. LAND OFFICE DenverSERIAL NUMBER C-021690

LEASE OR PERMIT TO PROSPECT

OIL & GAS
CONSERVATION COMMISSIONUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

00265449

API 0575064



LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company Gulf Oil Corporation Address P. O. Box 1010 - Casper, Wyoming
 Lessor or Tract Ballinger-Federal Field So. McCullen State Colorado
 Well No. 2a Sec. 8 T. 9N R. 78W Meridian 6th P.M. County Jackson
 Location 660 ft. N. of S Line and 1968 ft. E. of W Line of SW/4 Elevation 8112.5
 (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

Original Signed By
LESTER LEFEBVREDate 12-19-58Title Area Production Superintendent

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

Commenced drilling 9-26, 19 58 Finished drilling 11-12, 19 58

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5129' to 5169' No. 4, from _____ to _____
 No. 2, from 5063' to 5091' No. 5, from _____ to _____
 No. 3, from 4988' to 5002' 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		Purpose
							From	To	
10-3/4"	32.6	8	J	35'	HUNCO				Surface
5-1/2"	20.17	8	J	100'	HUNCO				Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4"	327'	275	HUNCO		
5-1/2"	5420'	300	HUNCO		

MARK

PLUGS AND ADAPTERS

None

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 feet to feet, and from feet to feet

DATES

....., 19-58 Put to producing 11-27, 19-58

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

....., Driller Driller

....., Driller Driller

FORMATION RECORD - SEE ATTACHED SHEETS

FROM—	TO—	TOTAL FEET	FORMATION
Core No. 1, Muddy, interval 4970' to 4987', cored 17' recovered 14-1/2'.	1.5'		Sandstone, gray brown, quartzitic, fair porosity, occasional shale inclusions, bleeding gas, good odor, yellow fluorescence
	2.8'		Sandstone, light gray, very fine, bleeding gas, irregular yellow fluorescence, no cut, 75 to 90 degree frags.
	2.2'		Shale, black, soft, very fractured. Very carbonaceous with interbedded bentonitic shale.
	1.6'		Shale, dark gray, no show.
	2.2'		Sandstone, gray, very fine, argillaceous to arenaceous shale, flat dips, bleeding gas.
Core No. 2, interval 4987' to 5015' cored 28' recovered 30', 2' from Core No. 1.	1.1'		Shale, tan, bleeding gas.
	5.1'		Sandstone, brown, very fine to fine, tight, very carbonaceous and coaly, dips apparently 45 to 50 degrees, spotty yellow fluorescence, good odor.
	2.2'		Sandstone, tan, interbedded, very fine to coarse, very friable, very porous, yellow fluorescence, cut, good odor.
	4.3'		Sandstone, tan, coarse, very friable, very porous, yellow fluorescence, cut, good odor.
	2.5'		Sandstone, light brown, fine to medium, very friable, very porous, yellow cut and fluorescence, good odor.
Core No. 3 8.5'			Sandstone, brown, fine to coarse, carbonaceous, friable, porous, faint to good fluorescence, cut and odor. Dips 45 degrees plus or minus.
	.8'		Sandstone, light gray, very fine to fine, hard, tight, siliceous, no show.
	5.7'		Shale, black, fraced, slickensides.

B.C. 00902446
0212004

FORMATION RECORD-Continued

0575664

B.C. 00265449

FROM	TO	TOTAL FEET	FORMATION
Core No. 3,	Interval 5063' to 5095', cut 33' recovered 33'.		
1'	Sandstone, light grey, fine to medium, slight bleeding gas, slight odor.		
12'	Sandstone, tan, fine to medium, very friable, very porous, bleeding gas, slight odor, fluorescence, yellow in CCl_4 , good yellow cut, pinpoint natural yellow fluorescence, dips 10 degrees.		
4'	Shale, dips 10 degrees.		
6.6'	Sandstone, as above, with bentonitic shale inclusions.		
7'	Sandstone, as above, with dips 5 degrees.		
3'	Sandstone, medium to coarse, as above, dips nearly flat.		
2.6'	Sandstone, brown to dark brown, fine to very coarse, porous, friable. Some black dead oil stain. Pinpoint yellow fluorescence. Good yellow fluorescence in CCl_4 . Very good cut. Slight bleeding gas, good odor.		
4'	Sandstone, white, very fine, argillaceous, no show.		
DST #1, Frontier, straddle test, top packer 4290', bottom packer 4350', 60'. ISI 55 minutes. Tool open 2-1/2 hours, FSI 1 hour. Gas to surface in 4 minutes, flammable, estimated 20 MCFD. (TSTM). Weak blow throughout test. Recovered 390' heavily saturated oil and gas cut mud. Scattered pockets of free oil throughout the 390'. ISI 1642 psi and building; IF 52 psi, FF 127 psi, FSI 410 psi and building; IH 2228 psi, FH 2159 psi, temperature 156 degrees.			
DST #2, interval 4965' to 5015' Muddy. ISI 30 minutes, open 7-1/4 hours, gas to surface in 2 minutes, CO_2 . Recovered 181' distillate and gas cut mud, 1.1 barrel. Pressures: IH 2605 psi, ISI 2115 psi, IF 1020 psi, tool plugged, FF 1949 psi, FSI 2115 psi, FH 2497 psi.			
Flow Period	Choke	Flowing BHP	Gas Rate
4-1/2 Hrs.	3/8"	720	1520 MCFD
1-1/4 Hrs.	1/2"	675	2560 MCFD
DST #3, ISI 30 minutes, open 3:49 a.m., gas to surface, CO_2 , 1-1/2 minutes. Measures 8,250 MCFD through 2" line after 6 minutes, broke 60" pressure gauge. Mud cleaned up in 9 minutes, making distillate. Put well through high pressure separator at 4:12 a.m. Choke size 3/8".			
Time	Separator Pressure	Volume	
4:11 a.m.	700 psi	1460 MCFD	
4:16 a.m.	750 psi	1570 MCFD	
4:22 a.m.	800 psi	1670 MCFD	
4:50 a.m.	780 psi	1630 MCFD	
5:45 a.m.	800 psi	1670 MCFD	
6:00 a.m.	800 psi	1670 MCFD	
Tank filling up with hydrates, unable to measure oil production.			
DST #4, Harrison formation, interval 5130' to 5150'. ISI 30 minutes, open 2 hours, weak blow immediately, increased to fairly strong in 1 hour, decreased to only fair blow at end of test, FSI 30 minutes. Recovered 2450' slightly gas cut (CO_2) muddy water (fresh). Pressures: IH 2918 psi, ISI 2315 psi, IF 91 psi, FF 1055 psi, FSI 2315 psi, FH 2831 psi.			
DST #5, Lakota formation, interval 5134' to 5160'. ISI 30 minutes, open 2 hours 20 minutes. Gas to surface in 1 minute, CO_2 . Separator froze off with mud and liquid CO_2 . Pressures: IH 2797 psi, ISI 2119 psi, FF 1900 psi, FSI 2210 psi, FH 2729 psi, ISI - no good.			
1st Rate	Time	Choke	Flowing BHP
1-1/2 hr.	1/2"	790	1950
			3-1/2
			52,800 Stable

Indicated open flow 19 million cubic feet per day.

Casing size	Weight per foot	Number rods of cement	Method used	Mud density	Amount of mud used
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MUDDING AND CEMENTING RECORD

16-43064-2 U. S. GOVERNMENT PRINTING OFFICE

HISTORY OF OIL OR GAS WELL

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.

Casing size	Per foot weight	Inner diameter per	Make	Amount	Kind of shoe	Cut and pulled from	Perforated	Purpose
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CASING RECORD

No. 3' from	to	No. 4' from	to
No. 1' from	to	No. 3' from	to

IMPORTANT WATER SANDS

No. 3' from	to	No. 6' from	to
No. 3' from	to	No. 2' from	to
No. 1' from	to	No. 4' from	to

(Denote gas by G)

OIL OR GAS SANDS OR ZONES

Commenced drilling 5-25-28 Finished drilling 11-15-28

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

Date 11-15-28

11-15-28

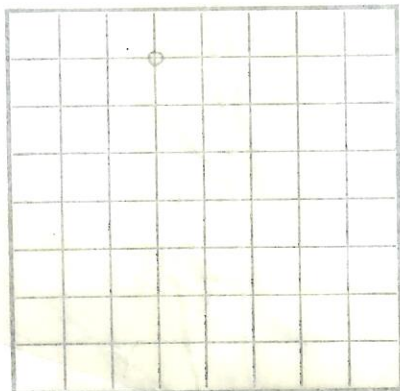
Signed

so far as can be determined from all available records.

The information given hereafter is a complete and correct record of the well and all work done thereon.

Location 200 ft. N. of 1/2 line and 100 ft. E. of 1/2 line of 2nd 1/4 Sec. 8 T. 31 N. R. 10 E. Meridian
 Well No. 3-200-8 T. 31 N. R. 10 E. Meridian
 Lessor or Tract Hollister-Redman
 Company Gulf Oil Corporation
 Address P. O. Box 1010 - Houston, Texas

LOCATE WELL CORRECTLY



Form 9-220

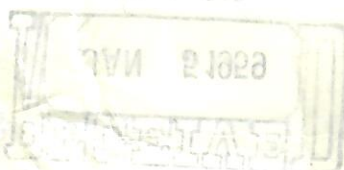
LOC OF OIL OR GAS WELL

GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR

UNITED STATES

CONSERVATION COMMISSION
OIL & GAS



LEASE OF PERMIT TO PROSPECT

SERIAL NUMBER 6-05700

U. S. LAND OFFICE

ADDRESS EXHIBIT 13-21-28
 BY 11-15-28