

U. S. LAND OFFICE

SERIAL NUMBER 24869

LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company U. S. OIL & SERVICE COMPANY Address Box 2347, North Dakota
 Lessor or Tract 1/4 Sec. 31, T. 30N, R. 16W Field NORTH DAKOTA State NORTH DAKOTA
 Well No. 1 Sec. 31 T. 30N R. 16W Meridian 6 County DAKOTA
 Location 1950 ft. N. of 0 Line and 420 ft. E. of 0 Line of 0000 Elevation 3520
 (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 JULY 25, 1960 Title SECRET

Commenced drilling ----- ~~5-12-50~~ -----, 19----- Finished drilling ----- ~~5-17-50~~ -----, 19-----

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from	310	to	330	No. 4, from	100
No. 2, from	335	to	1060	No. 5, from	100
No. 3, from	1030	to	1073	No. 6, from	100

IMPORTANT WATER SANDS

No. 1, from	330	to	350	No. 3, from	100
No. 2, from	350	to	370	No. 4, from	100

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
7 1/2	23	8	—	100	—	—	—	—	—
8 1/2	23	8	—	100	—	—	—	—	—
9 1/2	23	8	—	100	—	—	—	—	—
10 1/2	23	8	—	100	—	—	—	—	—
11 1/2	23	8	—	100	—	—	—	—	—
12 1/2	23	8	—	100	—	—	—	—	—
13 1/2	23	8	—	100	—	—	—	—	—
14 1/2	23	8	—	100	—	—	—	—	—
15 1/2	23	8	—	100	—	—	—	—	—
16 1/2	23	8	—	100	—	—	—	—	—
17 1/2	23	8	—	100	—	—	—	—	—
18 1/2	23	8	—	100	—	—	—	—	—
19 1/2	23	8	—	100	—	—	—	—	—
20 1/2	23	8	—	100	—	—	—	—	—
21 1/2	23	8	—	100	—	—	—	—	—
22 1/2	23	8	—	100	—	—	—	—	—
23 1/2	23	8	—	100	—	—	—	—	—
24 1/2	23	8	—	100	—	—	—	—	—
25 1/2	23	8	—	100	—	—	—	—	—
26 1/2	23	8	—	100	—	—	—	—	—
27 1/2	23	8	—	100	—	—	—	—	—
28 1/2	23	8	—	100	—	—	—	—	—
29 1/2	23	8	—	100	—	—	—	—	—
30 1/2	23	8	—	100	—	—	—	—	—
31 1/2	23	8	—	100	—	—	—	—	—
32 1/2	23	8	—	100	—	—	—	—	—
33 1/2	23	8	—	100	—	—	—	—	—
34 1/2	23	8	—	100	—	—	—	—	—
35 1/2	23	8	—	100	—	—	—	—	—
36 1/2	23	8	—	100	—	—	—	—	—
37 1/2	23	8	—	100	—	—	—	—	—
38 1/2	23	8	—	100	—	—	—	—	—
39 1/2	23	8	—	100	—	—	—	—	—
40 1/2	23	8	—	100	—	—	—	—	—
41 1/2	23	8	—	100	—	—	—	—	—
42 1/2	23	8	—	100	—	—	—	—	—
43 1/2	23	8	—	100	—	—	—	—	—
44 1/2	23	8	—	100	—	—	—	—	—
45 1/2	23	8	—	100	—	—	—	—	—
46 1/2	23	8	—	100	—	—	—	—	—
47 1/2	23	8	—	100	—	—	—	—	—
48 1/2	23	8	—	100	—	—	—	—	—
49 1/2	23	8	—	100	—	—	—	—	—
50 1/2	23	8	—	100	—	—	—	—	—
51 1/2	23	8	—	100	—	—	—	—	—
52 1/2	23	8	—	100	—	—	—	—	—
53 1/2	23	8	—	100					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
7"	114.50	25	HALLIBURTON	-	-
4-1/2	330	100	HALLIBURTON	-	-

PLUGS AND ADAPTERS

Figure 1 is a horizontal dot plot illustrating the distribution of 1000 random samples for four variables: Heaving plug—Material, Length, Depth set, and Adapters—Material. The plot shows the mean (solid dot) and standard deviation (vertical line) for each variable. The 'Length' variable has a significantly larger range and standard deviation compared to the other three variables, which are clustered near zero.

Variable	Mean (approx.)	Standard Deviation (approx.)
Heaving plug—Material	0.00	0.02
Length	0.00	0.05
Depth set	0.00	0.02
Adapters—Material	0.00	0.02

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from 0 feet to 1073 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

T. C. Peters _____, Driller
Evan Pugh _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	215	215	Shale
215	480	265	Shale & Sand
480	775	295	Shale
775	905	130	Sand & Shale
905	1073	168	Sand
<u>FORMATION TOPS</u>			
	Gallup	- 310	
	Dakota	- 905	
	Harrison	- 1060	
FROM—	TO—	TOTAL FEET	FORMATION

FORMATION RECORD-Continued

18-48094-5

LEWIS GALE INC 350 30 000

U. S. GOVERNMENT PRINTING OFFICE

HISTORY OF OIL OR GAS WELL

FORMATION RECORD—Continued

WILLIAM