

GROUNDWATER INDEX

Page 1 of 1

County Frederick Twp. K.L.D. Rge.

[illegible]

RECORDED
INDEXED
STATE ENGINEER

T. _____ R. _____
County _____

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

X			

Owner Leslie Bowman Address So. Lewistown,
Lewistown, Montana
Driller George C. Shively Address Rte. 2, Lewistown, Mont.
Date Started June 15, 1957 Date Completed June 20, 1957
Location: Sec. _____ T. _____ R. _____ $\frac{1}{4}$ sec. _____

Type of well Drilled Equipment used Cable Tool
(Dug, driven, bored, or drilled) (Churn drill, rotary, other)

Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other: _____

Casing: 1 1/2 ft. to 14 ft. Type 3 & 3 Size 6 1/2
Casing: 14 ft. to 56 ft. Type 3 & 3 Size 5 3/16
Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or Screened: Ft. _____ to ft. _____ Ft. _____ to ft. _____

Type of screen or perforations: _____

Static Water level, for non-flowing well: approx. 26 feet.

Shut-in pressure, for flowing well: _____ lb./sq. in. on: _____ (date)

Pumping water level: 50 feet at 5 gal. per min.

How tested: Pailing

Length of test: 1 hour

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

(over)

Log of Well

[illegible]

88733



STATE OF MONTANA

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

T. _____ R. _____
County Flint

NLV

WATER WELL LOG

Owner Myron Gauer Address Casino Creek
Driller George O. Singley Address Rte. 2, Box 35, Lewistown
Date Started _____ Date Completed _____
Location: Sec. _____ T. _____ R. _____ 1/4 sec. _____

Type of well Drilled Equipment used Cable Tool
(Dug, driven, bored, or drilled) (Churn drill, rotary, other)

Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other: _____

Casing: 0 ft. to 28 ft. Type S & S Size 6 1/2 I.D.

Casing: _____ ft. to _____ ft. Type _____ Size _____

Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or Screened: Ft. _____ to ft. _____ Ft. _____ to ft. _____

Type of screen or perforations _____

Static Water level, for non-flowing well: No. _____ feet.

Shut-in pressure, for flowing well: _____ lb./sq. in. on: _____ (date)

Pumping water level 30 feet at 30 gal. per min.

How tested: Bailing

Length of test 1 hour

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)
Sealed with shoe

(over)

Log of Well

11:30 P. M.
County Clerk and Recorder
Siddell

89729

File No. 14414

AUG 1 1964

T. _____ R. _____

DUPLICATE

County _____
 STATE ENGINEER OF MONTANA
 ADMINISTRATOR OF GROUNDWATER CODE
 OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

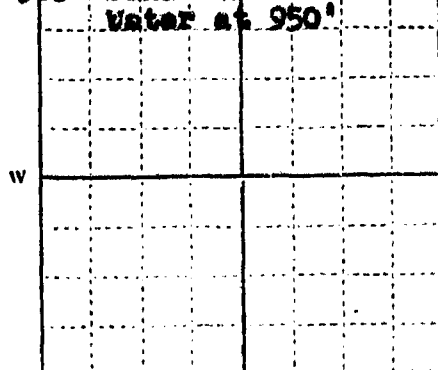
Owner Floyd Janni Address Lewistown, MontanaDriller George O. Singley Address Lewistown, MontanaDate of Notice of Appropriation of Groundwater NoneDate well started March 30, 1964 Date Completed April 30, 1964

Type of well Drilled Equipment Used Rotary
 (dug, driven, bored or (Churn, drill, rotary or
 drilled) other)

Water Use: Domestic ☒ Municipal ☐ Other ☒ Irrigation ☐
 Industrial ☐ Drainage ☐ Stock ☒

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which water rises in the well.

Top of Ground	
0	5 Clay (Elev. Above sea level _____)
5	17 Gravel
17	27 Sand Rock
27	30 Blue shale
30	37 Bentonite
37	40 Shale
40	50 Hard Rock
50	53 Bentonite
53	65 Hard Rock
65	65 Hard shale some Bentonite
65	86 Hard rock
86	95 Shale and Bentonite
95	100 Hard black slate and layers Bentonite
100	121 Shale and Bentonite
121	125 Hard black slate
125	170 Bentonite shale
170	175 Rock
175	430 Shale
430	460 White sandy shale Sandstone streaks
460	495 Shale
495	500 Sandstone
500	510 Sandy shale
510	550 Hard shale
550	711 Black shale
711	770 White sandy rock Top of 1st. Gat Creek
770	785 Hard black shale
785	800 Red shale
800	830 Sandstone
830	895 Red shale
895	943 Soft red and white grey and purple shales
943	945 White clay
945	980 Sandstone 2nd. Gat Creek Water at 950'



1/4 Sec. _____ T. _____ R. _____
 Indicate location of well and
 place of use, if possible. Each
 small square represents 10 acres.

Show exact depth of bottom.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
		0	535			
		535	980			
	2" 4.7# per ft.	1' above ground	970	1" slots 4" long	945	970

Static Water Level for non-flowing Well None feet.Shut-in Pressure for Flowing Well 85#Pumping Water Level None feet at None gal. per minute.Discharge in gal. per min. of flowing well 30How Tested Timed Length of Test Minute

Remarks: (Gravel packing, cementing, packers, type of shutoff, loca-
 tion of place of use of groundwater if not at well, and any
 other similar pertinent information, including number of

acres irrigated, if used for irrigation) _____

Packer set at 535', Packer also set at _____945'. Cemented with 19 sacks of cement.Driller's License Number 19Driller's Signature George Singley

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder
 in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of
 Mines and Geology and Quadruplicate for the Appropriator.

38143

19414

COPY

State of Montana, } ss.
County of Fergus.

MAY 29 1964

Filed _____ 19____
at 10:40 o'clock A.M.
Way R. R. R.
County Clerk and Recorder

*200-21

Form No. 18
8-60

T. _____ R. _____

County Lehigh

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED
MAY 11 1961

WATER WELL LOG

STATE ENGINEER

Owner Walter Redfield Address Leviatown, Montana

Driller George C. Lingley Address Leviatown, Montana

Date Started May 1, 1961 Date Completed May 5, 1961

Location: Sec. _____ T. _____ R. _____ $\frac{1}{4}$ sec. _____

Type of well Drilled Equipment used Cable Tool
(Dug, driven, bored, or drilled) (Churn, drill, rotary, other)

Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

Industrial ☐ Drainage ☐ Other _____

Casing: 0 ft. to 90 ft. Type S & S Size 4 1/2" ID Galv.

Casing: _____ ft. to _____ ft. Type _____ Size _____

Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or Screened: Ft. 70 to ft. 90 . Ft. _____ to ft. _____

Type of screen or perforations Slots

Static Water level, for non-flowing well: 60 feet.

Shut-in pressure, for flowing well: _____ lb./sq. in. on: _____ (date)

Pumping water level 80 feet at 15 gal. per min. _____

How tested: Running for one hour

Length of test 1 hr.

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

Sealed with rubber packers

Water 70-90 feet

(over)

Log of Well

[illegible]

5305

Copy

MCD

T. _____ R. _____
County Fergus

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

STATE ENGINEER

WATER WELL LOG

Owner Charlie Simpson Address Butte, Montana

Driller George W. Lindsey Address Butte, Montana

Date Started January 21, 1960 Date Completed January 24, 1960

Location: Sec. _____ T. _____ R. _____ 1/4 sec. _____

Type of well drilled Equipment used cable tool
(Dug, driven, bored, or drilled) (Churn drill, rotary, other)

Water use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other: _____

None found
Casing: 2 ft. to 30 ft. Type 5 3/16 in. Size 5 3/16 in.

Casing: 30 ft. to 90 ft. Type 4 in. Size 4 in.

Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or Screened: Ft. 30 to ft. 90 Ft. _____ to ft. _____

Type of screen or perforations data

Static Water level, for non-flowing well: 75 feet.

Shut-in pressure, for flowing well: _____ lb./sq. in. on: _____ (date)

Pumping water level 65 feet at 5 gal. per min.

How tested: Balling

Length of test 2 hr.

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

sealed with shoe

(over)

Log of Well

State of Michigan,
County of Ferry, ss.
Filed JUL 20 1960
at 11:30 o'clock A.M.
Mary Goodland
County Clerk and Recorder
\$1.00 - pd.

1690 COPY

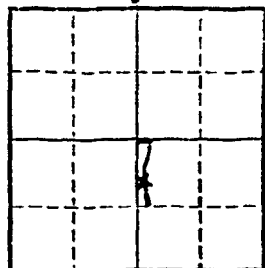
T. _____ R. _____

County FEATHERS

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

STATE ENGINEER

WATER WELL LOG



Owner Eugene C. Sutton Address Route 1, Lewistown, Mont.

Driller WILLIAM M. MURPHY & CO. Address GRASS RANGE, MONT.

Date Started April Date Completed April

Location: Sec. _____ T. _____ R. _____ $\frac{1}{4}$ sec. NW $\frac{1}{4}$ SE $\frac{1}{4}$

Type of well Drilled (Dug, driven, bored, or drilled) Equipment used Rotary (Cable drill, rotary, other)

Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

Industrial ☐ Drainage ☐ Other: _____

Casing: 0 ft. to 32 ft. Type STEEL Size 6" - 25 lb.

Casing: _____ ft. to _____ ft. Type _____ Size _____

Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or Screened: Ft. _____ to ft. _____ Ft. _____ to ft. _____

Type of screen or perforations _____

Static Water level, for non-flowing well: Seventeen feet

Shut-in pressure, for flowing well: _____ lb./sq. in. on: _____ (date)

Pumping water level 30 feet at 12 gal. per min.

How tested: at pump

Length of test: adequate

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

(over)

Log of Well

[illegible]

4665

007

County of Ferguson, } ss.
County of Ferguson, }

Filed

MAR 13 1961

12

at 4:20

Office D.A.

My Deed in
County Clerk and Recorder

8,000

RECEIVED
NOV 2 1957

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

T. _____ R. _____
County Hergus

STATE ENGINEER

WATER WELL LOG

Owner Jerry Van Haur Address Wilger, Montana
Driller George C. Singley Address Rte. 2, Box 35, Lewistown
Date Started Oct. 24, 1957 Date Completed Oct. 26, 1957
Location: Sec. _____ T. _____ R. _____ $\frac{1}{4}$ sec. _____

Type of well Drilled Equipment used Cable Tool
(Dug, driven, bored, or drilled) (Churn drill, rotary, other)

Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other: _____

Casing: 0 ft. to 59 ft. Type 3 & 3 Size 5 3/16 I.D.
Casing: _____ ft. to _____ ft. Type _____ Size _____
Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or Screened: Ft. _____ to ft. _____ Ft. _____ to ft. _____

Type of screen or perforations: _____

Static Water level, for non-flowing well: 27 feet.

Shut-in pressure, for flowing well: _____ lb./sq. in. on: _____ (date)

Pumping water level 60 feet at 10 gal. per min.

How tested: Bailing

Length of test 2 hours

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

Sealed with shoe

(over)

Log of Well

[illegible]

89784

5

Form No. 18
8-60

T. 5 R. 15E

County Pergus

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED
APR 20 1961

WATER WELL LOG

STATE ENGINEER

Owner Clatus Gabley Address Granger, Mont.

Driller W. Livingston Address Timnet, Montana

Date Started April 3, 1961 Date Completed April 10, 1961

Location: Sec. 8 T. 15N R. 15E $\frac{1}{4}$ Sec. 4 3 4

Type of well Drilled Equipment used Auger, drill, rotary, other
(bag, driven, bored, or drilled)

Water use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

Casing: 0 ft. to 063 ft. Type 2 1/2" Size 4 1/2" O.D.

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 473 to ft. 063 Ft. to ft.

Type of screen or perforations slot perforations

Static Water level, for non-flowing well: feet.

Shut-in pressure, for flowing well: lb./sq. in. on: (date)

Pumping water level feet at gal. per min.

How tested: Artesian well flowing 16 gal. per min.

Length of test

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

Set Larkin casing anchor packer at 846 ft.

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	23	Surface Soil and Gravel
23	190	Black shale and clay
190	366	Black shale, grey clay and streaks of bentonite
366	444	Dark shale and hard sandy shale
444	453	soft shale, clay and sandy shale
453	480	Hard limey sand, some sandy shale
480	500	Hard fine sand and streaks of clay and shale
500	567	Medium hard grey sandy shale
567	680	Red and grey shale and clay
680	691	Sand
691	702	Grey shale, sandy shale, hard limey sand streaks
702	730	Sand with shale streaks
730	765	Hard sand with streaks of lime and red shale
765	775	Light grey sand and sandy lime, some shale
775	785	Medium to hard sand
785	795	Medium soft coarse sand
795	806	Sand and hard sandy lime
806	811	Lime with red and black shale
811	836	Sandy lime, black shale and red shale
836	839	Hard lime
839	844	Grey sandy clay
844	870	White, red and grey clay and red shale
870	888	White clay, grey clay and some sand
888	896	Sand with a little clay
896	915	Hard salt and pepper sand
915	925	Medium soft black and grey sand
925	972	Medium soft coarse sand and streaks of shale
972	1016	Black soft sand
1016	1045	Sand and a little shale
1045	1060	Shale and hard layers sand

SECRET

GW-1's No GW-2's

File No. 38558

T20N R. 22E

DUPLICATE

County Fergus STATE WATER CONSERVATION BOARD

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 16 1967

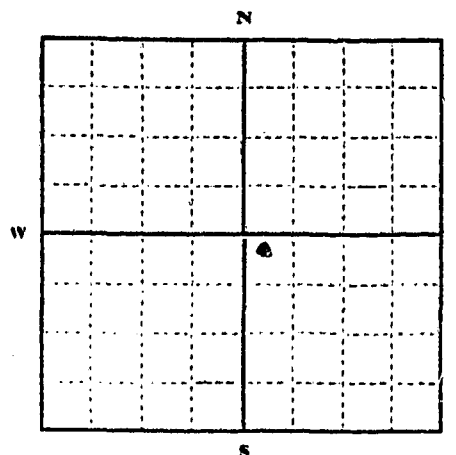
Notice of Appropriation of Groundwater

(Under Chapter 237, Montana Session Laws, 1961)

McDonnell
M...
Sullivan
Dickert

1. I, Russell Murry, of Rox, Montana
(Name of Appropriator) (Address) (Town)
County of Fergus, State of Montana, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.
2. The beneficial use to which water is to be applied is Life stock
(describe lands to be benefited, if for irrigation)
3. The rate of use in gallons per minute or miner's inches of groundwater claimed 60 to 100 gallons per minute
4. The annual period (inclusive dates) of intended use year round
5. The probable or intended date of first beneficial use February 12, 1967
6. The probable or intended date of commencement and completion of the well* or wells* Jan. 12, 1967
February 12, 1967
7. The location, type, size and depth of well or wells contemplated 1000 ft. North-west of dwelling, water well, four and one-half in. casing and 2,040 ft.
8. The probable or estimated depth of the water table or artesian aquifer flow
9. Name, address and license number of the driller engaged Ernest O. Lee 1200 3rd. Havre, Montana. Montana # 21

10. Give such other similar information as may be useful in carrying out the policy of this act. Water is needed for life-stock at this ranch.



NW 1/4 Sec. 11, T. 20N R. 22E
Locate well or other means of development as accurately as possible on the plat.

Signature of Appropriator Russell R. Murray
Date 12 day Jan 1967

* As defined in the Code Sec. 1 (c) "Well" means any artificial opening or excavation in the ground, however made, by which groundwater can be obtained or through which it flows under natural pressures or is artificially withdrawn."

Three copies of this notice are to be filed with County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

1/16/67

28558

COPY

State of Montana, }
County of Forest } ss

Filed JAN 12 1967

at 4:45 o'clock P.M.

My Rathen
County Clerk and Recorder

8277

GW

File

8264

DUPLICATE

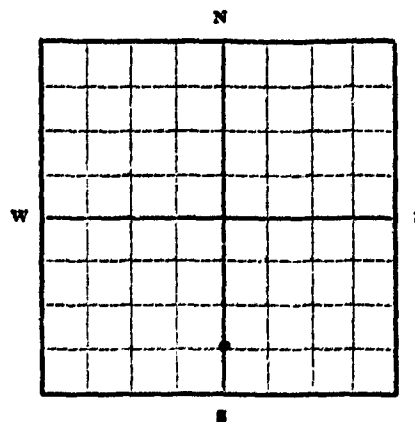
County FERGUS

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED

Notice of Appropriation of Groundwater STATE ENGINEER
(Under Chapter 237, Montana Session Laws, 1961)

1. I, ELKS LODGE #456, of So. of LEWISTOWN, LEWISTOWN
(Name of Appropriator) (Address) (Town)
County of FERGUS, State of MONTANA, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.
2. The beneficial use to which water is to be applied is BAR, SWIMMING POOL, SHOWERS, LAWN & TREES IRRIGATION
(describe lands to be benefited, if for irrigation)
3. The rate of use in gallons per minute or miner's inches of groundwater claimed 20 GALS. PER MIN.
4. The annual period (inclusive dates) of intended use yearly
5. The probable or intended date of first beneficial use MARCH 1, 1962
6. The probable or intended date of commencement and completion of the well* or wells* JANUARY 22, 1962 FEBRUARY 1, 1962
7. The location, type, size and depth of well or wells contemplated By new club bldg. drilled, 5" 200'
8. The probable or estimated depth of the water table or artesian aquifer 100'
9. Name, address and license number of the driller engaged GEO. O. SINGLEY
RT #2, LEWISTOWN, MONT. LIC. #19
10. Give such other similar information as may be useful in carrying out the policy of this act.



SW 1/4 Sec. 4 S. T. 15 N. R. 18 E.

Locate well or other means of development as accurately as possible on the plat.

Signature of Appropriator [Signature]

Date 1-16-62

* As defined in the Code Sec. 1 (c) "Well" means any artificial opening or excavation in the ground, however made, by which groundwater can be obtained or through which it flows under natural pressures or is artificially withdrawn."

Three copies of this notice are to be filed with County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

8264 COPY

State of Montana, }
County of Fergus, } ss.

Filed JAN 16 1962 79
at 11:30 o'clock P.M.

Mary Rathbun
County Clerk and Recorder

8264 pd -

File No.

DUPLICATE

T. 15 R. 18 E

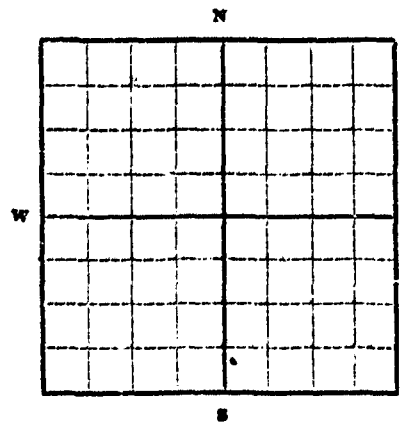
County **FERGUS**

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED

Notice of Appropriation of Groundwater STATE ENGINEER
(Under Chapter 237, Montana Session Laws, 1961)

- Box 719
1. I, **ELKS LODGE NO. 458**, of **So of Lewistown** **Lewistown**
(Name of Appropriator) (Address) (Town)
County of **Fergus**, State of **Montana**, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.
2. The beneficial use to which water is to be applied is **Bar-Swimming Pool-Shower-Lawn, Trees-Irrigation**
(describe lands to be benefited, if for irrigation)
3. The rate of use in gallons per minute or miner's inches of groundwater claimed **20 Gallons per minute**
4. The annual period (inclusive dates) of intended use **Yearly**
5. The probable or intended date of first beneficial use **March 1, 1962**
6. The probable or intended date of commencement and completion of the well* or wells* **January 22, 1962 - February 1, 1962**
7. The location, type, size and depth of well or wells contemplated **By new Club Bldg. Drilled 5" 200'**
8. The probable or estimated depth of the water table or artesian aquifer **100'**
9. Name, address and license number of the driller engaged **George O. Singley Rte 2. Lewistown, Montana License No. 17**
10. Give such other similar information as may be useful in carrying out the policy of this act.....



SW-SE 1/4 Sec. 14 T. 15 R. 18 E

in SW corner
Locate well or other means of development as accurately as possible on the plat.

Signature of Appropriator *Ed MacKinnon*

Date **Jan 31, 1962**

* As defined in the Code Sec. 1 (c) "Well" means any artificial opening or excavation in the ground, however made, by which groundwater can be obtained or through which it flows under natural pressures or is artificially withdrawn."

Three copies of this notice are to be filed with County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

1304

8434

COPY

State of Minnesota } ss.
County of Fergus }

Filed JAN 31 1962 79

at 11:30 o'clock A.M.

May Rathburn
County Clerk and Recorder

\$20.00