

## GROUNDWATER INDEX

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County CascadeTwp. 21 NRge. 2 E

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Page of

County Cascade

Twp. 21 N

Rge. 2 E

[illegible]

File No. *Owner*  
*3605*  
 DUPLICATE

T21 NR 2 East  
 County *Cascade*

STATE OF MONTANA  
 ADMINISTRATOR OF GROUNDWATER CODE  
 OFFICE OF STATE ENGINEER

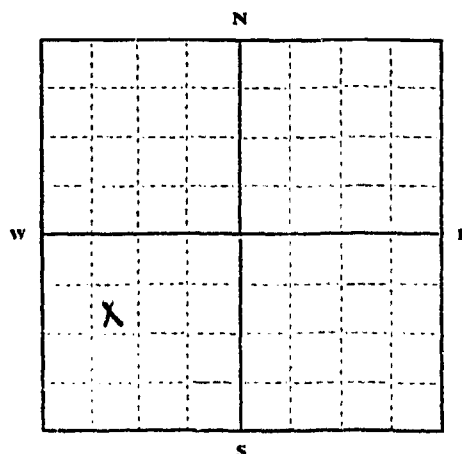
RECEIVED  
 DEC 20 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. *Olaf Lindby*  
 (Name of Appropriator)  
 County of *Cascade*  
 State of *Montana*  
 of *P.O. Box 1398, Great Falls*  
 (Address) (Town)  
 have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



S. 1/4 Sec. 13, T. 21 NR. 2. East

Indicate point of appropriation  
 and place of use, if possible. Each  
 small square represents 10 acres.

2. The beneficial use on which the claim is based  
*Stock water*
3. Date or approximate date of earliest beneficial use; and how continuous the use has been  
*1912, when ever needed*
4. The amount of groundwater claimed (in miner's inches or gallons per minute)  
*10 gallons per minute*
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof  
*not needed for irrigation*
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal  
*Pump*
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater  
*1911 or 1912*
8. The depth of water table  
*125 feet*
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater  
*not available*  
*drilled, 4", 125 feet*
10. The estimated amount of groundwater withdrawn each year  
*80,000 to 100,000 gallons*
11. The log of formations encountered in the drilling of each well if available  
*not available*
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record

Signature of Owner

*Olaf Lindby*  
 Date *December 16, 1963*

Three copies to be filed by the owner with the 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.

*1/6 7d*

3605

STATE OF MONTANA, } ss.  
County of Cascade.

I hereby certify that the within instrument was filed in this office on

DEC 18 1963

Date

at

12:25

o'clock

P.

**J. L. LENNON**

County Clerk and Recorder.

By

B. J. [Signature]

Deputy

File No.

T 21 N R 2 E

DUPLICATE

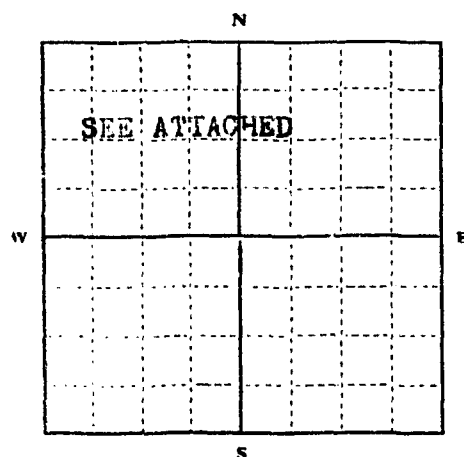
County Cascade

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 27 1963

**Declaration of Vested Groundwater Rights**  
(Under Chapter 237, Montana Session Laws, 1961)

1. MARY E. MCHESSE, of 1800 4th Ave. N. Great Falls,  
(Name of Appropriator) (Address) (Town)  
County of Cascade State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



1/4 Sec. T. R.

Indicate point of appropriation  
and place of use, if possible. Each  
small square represents 10 acres.

2. The beneficial use on which the claim is based ~~Stock watering~~  
~~irrigation - sub-irrigation.~~
3. Date or approximate date of earliest beneficial use; and how continu-  
ous the use has been Dec 14, 1940 and well since  
~~approx. 1949.~~
4. The amount of groundwater claimed (in miner's inches or gallons  
per minute) 488,775 per acre irrigated per yr.  
162,925 per acre sub-irrigated.
5. If used for irrigation, give the acreage and description of the lands  
to which water has been applied and name of the owner thereof  
~~See attached description -~~  
395 acres irrigated ground.  
50 acres sub-irrigated.
6. The means of withdrawing such water from the ground and the loca-  
tion of each well or other means of withdrawal well & pump,  
~~percolating waters also on property.~~
7. The date of commencement and completion of the construction of the well, wells, or other works for with-  
drawal of groundwater about 1949.
8. The depth of water table varied from 1 ft (percolating waters) to 20 ft.
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other  
works for the withdrawal of groundwater don't have records available.
10. The estimated amount of groundwater withdrawn each year 193,066,125 gals.
11. The log of formations encountered in the drilling of each well if available no records available.
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including  
reference to book and page of any county record don't know.

Signature of Owner H. May E. McChessey

Date 12/23/63

Three copies to be filed by the owner with the 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.

13043

3717

STATE OF MONTANA, )  
County of Cascade, )  
I hereby certify that the within in-  
strument was filed in this office on  
DEC 23 1968  
137  
J. L. MEYER  
County Clerk and Recorder  
By *[Signature]* Deputy

3

# DESCRIPTION OF PROPERTY

In Section Nineteen (19) of Township Twenty-one (21) North of Range Two (2) East: that part of the Southeast Quarter of the Southwest Quarter (SE $\frac{1}{4}$ SW $\frac{1}{4}$ ) lying east/easterly and/or south/southerly of the County Highway running approximately north and south through said SE $\frac{1}{4}$ SW $\frac{1}{4}$ ; and that part of the Southwest Quarter of the Southeast Quarter lying east/easterly and/or south/southerly of the County Highway running approximately north and south through said SW $\frac{1}{4}$ SE $\frac{1}{4}$ ; and the Southeast Quarter of the Southeast Quarter (SE $\frac{1}{4}$ SE $\frac{1}{4}$ ).

In Section Twenty-nine (29) of Township Twenty-one (21) North of Range Two (2) East: West Half of the Northwest Quarter (W $\frac{1}{2}$ NW $\frac{1}{4}$ ) and the Northwest Quarter of the Southwest Quarter (NW $\frac{1}{4}$ SW $\frac{1}{4}$ ).

In Section Thirty (30) of Township Twenty-one (21) North of Range Two (2) East: the Northeast Quarter (NE $\frac{1}{4}$ ), the North Half of the Southeast Quarter (N $\frac{1}{2}$ SE $\frac{1}{4}$ ); that part of the Northeast Quarter of the Northwest Quarter (NE $\frac{1}{4}$ NW $\frac{1}{4}$ ) lying east/easterly and/or south/southerly of the County Highway running approximately north and south through said NE $\frac{1}{4}$ NW $\frac{1}{4}$ ; and that part of the Southeast Quarter of the Northwest Quarter (SE $\frac{1}{4}$ NW $\frac{1}{4}$ ) lying east/easterly and/or south/southerly of the County Highway running across said SE $\frac{1}{4}$ NW $\frac{1}{4}$ , and North and East of Sun River.

and

Beginning at the southwest corner of Section Twenty, Township Twenty-one (21) North, Range Two (2) East, extending thence North 445.6 feet, along the West line of said SW $\frac{1}{4}$ SW $\frac{1}{4}$  to the south right of way line of the Great Northern Railroad, thence southeasterly 1276.73 feet along said south right of way line to the south line of said SW $\frac{1}{4}$ SW $\frac{1}{4}$  thence West 1195.45 feet along said south line of said SW $\frac{1}{4}$ SW $\frac{1}{4}$  to the place of beginning

County Cascade

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
MONTANA WATER RESOURCES BOARD

**NOTICE OF COMPLETION OF GROUNDWATER  
APPROPRIATION BY MEANS OF WELL**

Developed after January 1, 1962

(Under Chapter 237 Montana Session Laws, 1961, as amended)

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, last copy to be retained by driller.

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

Elmer L. Field  
Owner Tom Pettapiece  
Address Manchester, Mont.

Date well started 2-3-1973  
completed 2-10-1973

Type of well Drilled (Dug, driven, bored or drilled)

Equipment used Chain drill (Chain drill, rotary or other)

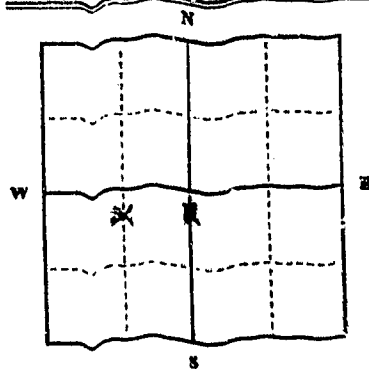
Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐  
Industrial ☐ Drainage ☐ Other ☐\* Garden/Lawn ☐

**\*Describe**

**USE:** If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition).

## ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
7"	17#	0	123	Not perforated		
Casing has a 17# Drive Shoe on bottom						



Static water level ..... 25 ..... ft.\*  
Pumping water level ..... 50 ..... ft.\*  
at ..... 30 ..... gallons per minute,  
measured ..... minutes after pumping  
began.

\*Measured from ground level.  
Well developed by Bailor  
for 1 hours.

Power..... Pump..... HP  
Remarks: (Gravel packing, cementing  
packers, type of shutoff) .....

SEC. 112 SW 1/4 Sec 27  
T. 24 N. R. 2 E  
S. W.

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.  
EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature \_\_\_\_\_

Driller's Address 2112-7th Ave. South

Gl. Falls, Montana

LICENSE NO.....135

## DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground (Elev. above sea level)

[illegible]

~~123~~  
~~22990X~~ Show exact depth of bottom

53, 450

5454

STATE OF MONTANA, }  
County of Cascade.

I hereby certify that the within in-  
strument was filed in this office on

**FEB 13 1973**

Date

at 3:55 o'clock P M

**J. L. LENNON**

County Clerk and Recorder

G. L. Wilson  
Deputy



T. 21 N. R. 2 E.

County. Cascade

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED  
FEB 21 1961

WATER WELL LOG

STATE ENGINEER


Section 28

Owner. Montana Highway Department Address. Helena, Montana

601 Pine

Driller. E. A. Holman Address. Spokane, Wash.

Date Started. January 28, 1960 Date Completed. February 2, 1960

Location: Sec. 28 T. 21 N. R. 2 E. 1/4 sec. NE

Highway Sta. 1069+93.2 128.7' Lt. E I 15-5 (9) 275 Unit 1

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

Water use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐

Industrial ☐ Drainage ☐ Other: Public Wash Room Facilities

Casing: 5 ft. to 86 ft. Type. Cast Iron Size. 6"

Casing: ft. to ft. Type. Size.

Casing: ft. to ft. Type. Size.

\* Perforated or Screened: Ft. 73 to ft. 84 Ft. to ft.

\* Type of screen or perforations. Gal. 1.5 to 1.7 1/4 in.

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

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

Pumping water level. 68 feet at 22 gal. per min.

How tested: Bailer

Length of test. 6 hrs.

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

2 ft. gravel pack at bottom of casing

(over)

### Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	25	Fill
1	75	Shale (red)
2	100	Shale (red)
3	125	Shale (red)
4	150	Shale (red)
5	175	Shale (red)
6	200	Shale (red)
7	225	Shale (red)
8	250	Shale (red)
9	275	Shale (red)
10	300	Shale (red)
11	325	Shale (red)
12	350	Shale (red)
13	375	Shale (red)
14	400	Shale (red)
15	425	Shale (red)
16	450	Shale (red)
17	475	Shale (red)
18	500	Shale (red)
19	525	Shale (red)
20	550	Shale (red)
21	575	Shale (red)
22	600	Shale (red)
23	625	Shale (red)
24	650	Shale (red)
25	675	Shale (red)
26	700	Shale (red)
27	725	Shale (red)
28	750	Shale (red)
29	775	Shale (red)
30	800	Shale (red)
31	825	Shale (red)
32	850	Shale (red)
33	875	Shale (red)
34	900	Shale (red)
35	925	Shale (red)
36	950	Shale (red)
37	975	Shale (red)
38	1000	Shale (red)
39	1025	Shale (red)
40	1050	Shale (red)
41	1075	Shale (red)
42	1100	Shale (red)
43	1125	Shale (red)
44	1150	Shale (red)
45	1175	Shale (red)
46	1200	Shale (red)
47	1225	Shale (red)
48	1250	Shale (red)
49	1275	Shale (red)
50	1300	Shale (red)
51	1325	Shale (red)
52	1350	Shale (red)
53	1375	Shale (red)
54	1400	Shale (red)
55	1425	Shale (red)
56	1450	Shale (red)
57	1475	Shale (red)
58	1500	Shale (red)
59	1525	Shale (red)
60	1550	Shale (red)
61	1575	Shale (red)
62	1600	Shale (red)
63	1625	Shale (red)
64	1650	Shale (red)
65	1675	Shale (red)
66	1700	Shale (red)
67	1725	Shale (red)
68	1750	Shale (red)
69	1775	Shale (red)
70	1800	Shale (red)
71	1825	Shale (red)
72	1850	Shale (red)
73	1875	Shale (red)
74	1900	Shale (red)
75	1925	Shale (red)
76	1950	Shale (red)
77	1975	Shale (red)
78	2000	Shale (red)
79	2025	Shale (red)
80	2050	Shale (red)
81	2075	Shale (red)
82	2100	Shale (red)
83	2125	Shale (red)
84	2150	Shale (red)
85	2175	Shale (red)
86	2200	Shale (red)
87	2225	Shale (red)
88	2250	Shale (red)
89	2275	Shale (red)
90	2300	Shale (red)
91	2325	Shale (red)
92	2350	Shale (red)
93	2375	Shale (red)
94	2400	Shale (red)
95	2425	Shale (red)
96	2450	Shale (red)
97	2475	Shale (red)
98	2500	Shale (red)
99	2525	Shale (red)
100	2550	Shale (red)

STATE OF MONTANA, } ss.  
 County of Cascade  
 I hereby certify that the within in-  
 strument was filed in this office on  
 the 17 day of FEB 1961  
 at 7 o'clock P.M.  
J. L. D. Johnson  
 County Clerk and Recorder.  
 By [Signature] Deputy.

File No. ....

T. 21 R. 2E

DUPLICATE

County .....

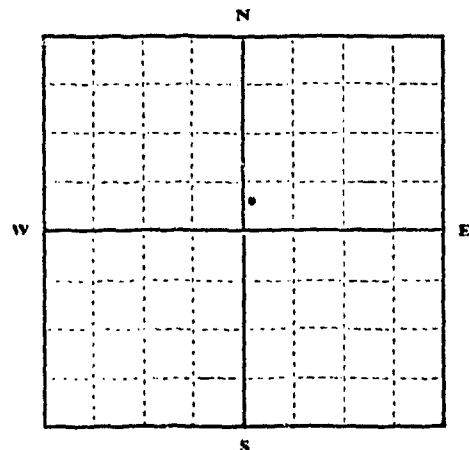
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 9 1964

# Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961) STATE ENGINEER

1. HYLON K. BURCH, of RIE1 WEST, GREAT FALLS,  
(Name of Appropriator) (Address) (Town)  
County of CASCADE State of MONTANA  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 1/4 NE 1/4 Sec. 30 T. 21. R. 2E

Indicate point of appropriation  
and place of use, if possible.  
Each small square represents 10  
acres.

2. The beneficial use on which the claim is based LIVESTOCK WATER SUPPLY
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1927  
USED INTERMITTENTLY TO SUPPLEMENT OTHER SUPPLY
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 50 GALLONS PER MINUTE
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof  
USED TO IRRIGATE GARDEN AT TIMES
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal ELECTRIC DRILL PUMP
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1927 (EXACT DATE UNKNOWN)
8. The depth of water table VEIN STRUCK AT 60' WATER RISES TO 10'
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater DRILLER AND CASED DEPTH 80'
10. The estimated amount of groundwater withdrawn each year UP TO 20,000 GALLONS
11. The log of formations encountered in the drilling of each well if available UNAVAILABLE
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record NOT KNOWN RECORD

Signature of Owner Hylon K. Burch

Date Dec 24, 1963

Three copies to be filed by the owner with the 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.

28165

4177

3:14

P

H. C. Nichol

File No. ....

T. 21 R. 2E

DUPLICATE

County. ....

STATE OF MONTANA  
ADMINISTRATOR OF GEOWATER CODE  
OFFICE OF STATE ENGINEER

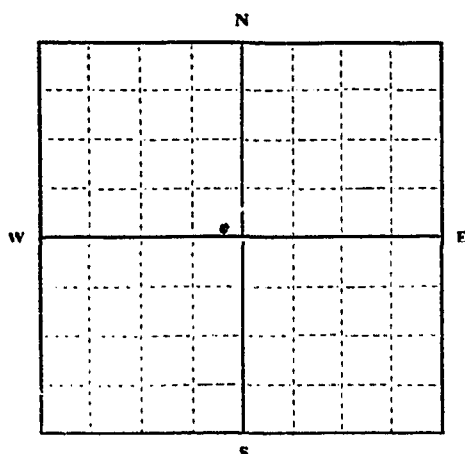
RECEIVED  
JAN 9 1964

# Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. HYLON K. BURCH, of RT. 1 WEST GREAT FALLS,  
(Name of Appropriator) (Address) (Town)  
County of CASCADE State of MONTANA  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 NW 1/4 Sec. 30 T. 21 R. 2E

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based DOMESTIC AND STOCK WATER SUPPLY
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1946 (APPROX.) USED CONTINUOUSLY
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 30 GALLONS PER MINUTE
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof USED TO IRRIGATE LAWN AND GARDEN (1/4 ACRE)
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal ELECTRIC DRIVE PUMP
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater UNKNOWN EXCEPT FOR 1946 ESTIMATE
8. The depth of water table 4' TO 5'
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater DRILLED 4" x 7' x 20' DEEP
10. The estimated amount of groundwater withdrawn each year 50,000 GALLONS
11. The log of formations encountered in the drilling of each well if available UNAVAILABLE
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record NO KNOWN RECORD

Signature of Owner Hylon K. BurchDate Dec. 26, 1963

Three copies to be filed by the owner with the 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.

28166

4178

3:15

D. C. Fidds

File No. ....

RECEIVED

T. 21N R. 2E 30

DUPLICATE

FEB 9 1970

County. Cascade

## LOG

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level.....)

Notice of Completion of Groundwater  
Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

William H. &amp;

Owner Laverna H. Whitaker Address Gt. Falls, Mont.

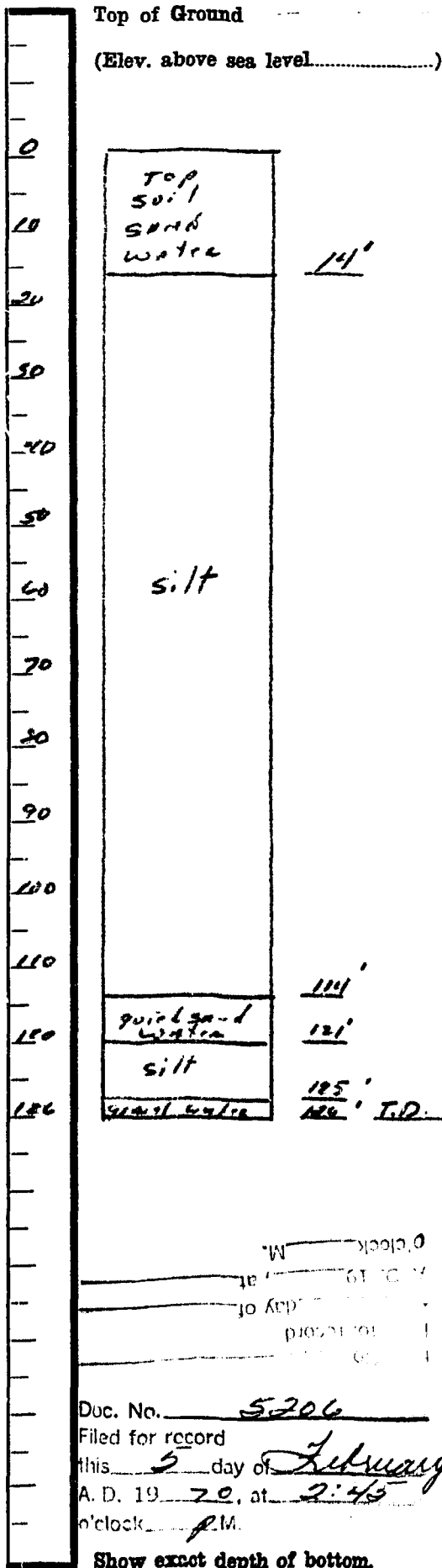
Driller Pat Byrne Address Gt. Falls, Mont.

Date of Notice of appropriation of groundwater.....

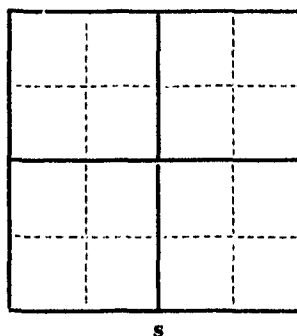
Date well started 12-23-1969 Date completed 12-27-1969

Type of well Drilled Equipment used Churn Drill  
(Dug, Driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐  
Industrial ☐ Drainage ☐ Other ☐

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 the water rises in the well.



Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6-5/8"	6-5/8" 20#	0	126	Not perforated		



Static Water Level for non-flowing well .....feet.

Shut-in Pressure for Flowing Well 1#

Pumping Water Level.....feet

at.....gal. per minute.

Discharge in gal. per min. of flowing well

5

How Tested.....

Length of Test.....

Remarks: (Gravel packing, cementing, packers, type of shutoff).....

(Continue on reverse side)

1/4 Sec. 30 T. 21N R. 2E  
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

USE—If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition).

Doc. No. 5206

Filed for record

this 5 day of February

A. D. 1970, at 2:45

o'clock P.M.

Show exact depth of bottom.

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, tissue copy to be retained by driller.

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

135  
Driller's License Number

Driller's Signature

46143

5706

STATE OF MONTANA, }  
County of Cascade.

I hereby certify that the within in-  
strument was filed in this office on

FEB 5 1970

at 2:45 o'clock P.M.

J. L. BENSON

County Clerk and Recorder.

By *J. L. Benson*



53, 147

5493

STATE OF MONTANA, } ss.  
County of Cascade.

I hereby certify that the within instrument was filed in this office on

MAY 14 1973  
Date

at 11:30 o'clock A M

**J. L. LENNON**

County Clerk and Recorder.

By J. D. Wilson  
Deputy.

[illegible]

5467

STATE OF MONTANA, } ss.  
County of Cascade.

I hereby certify that the within in-  
strument was filed in this office on

MAR 9 1973

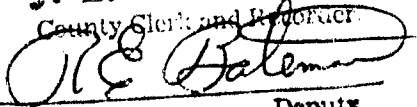
Date

at 11:51 o'clock 17 M

**J. L. LENNON**

County Clerk and Recorder

By



Deputy

52,554

5465

STATE OF MONTANA, } ss.  
County of Cascade.

I hereby certify that the within in-  
strument was filed in this office on

MAR 9 1973

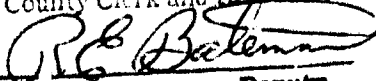
Date

at 11:52 o'clock PM

**J. L. LENNON**

County Clerk and Recorder.

By



Deputy.

[illegible]

5378

STATE OF MONTANA, } ss.  
County of Cascade.

I hereby certify that the within in-  
strument was filed in this office on

**JUN 5 1917**

Date

12:01 o'clock P M

**J. L. LENNON**

County Clerk and Recorder.

By

J. S. Wilson

Deputy



50,733

5379

STATE OF MONTANA, } ss.  
County of Cascade.

I hereby certify that the within in-  
strument was filed in this office on  
**JUN 5 1972**

Date  
at 12:02 o'clock P M

**J. L. LENNON**

County Clerk and Recorder.

By

J. S. Wilson  
Deputy.

County Cascade

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
MONTANA WATER RESOURCES BOARD

# NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

**Developed after January 1, 1962**

(Under Chapter 237 Montana Session Laws, 1961, as amended)

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, last copy to be retained by driller.

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

**Cordell H. and/or  
Judith Ann Stewart**  
Owner

### Address

Date well started 10-21-1970

completed 10-24-1970

Type of well ..... **Drilled**

(Dug, driven, bored or drilled)

Equipment used ..... **Churn drill**

(Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

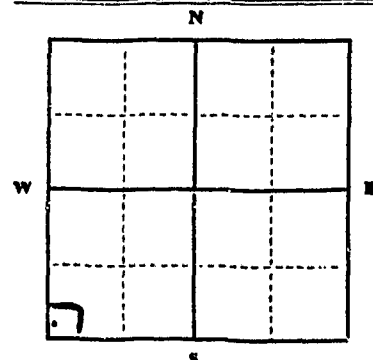
Industrial ☐ Drainage ☐ Other ☐\* Garden/Lawn ☐

**\* Describe**

**USE:** If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition).

## ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
7"	7" 17 <sup>lb</sup>	0	197	Not	perforated	



Static water level 7' Above GL.\*  
Pumping water level GL.....ft.\*  
at 30.....gallons per minute,  
measured .....minutes after pumping  
began.

\*Measured from ground level.  
Well developed by **Flowing**  
for 3 hours.

Power..... Pump..... HP  
Remarks: (Gravel packing, cementing,  
packers, type of shutoff) .....

SW ¼ SW ¼ Sec. 31

T. 21 N R 2 E

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.  
EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature

Driller's Address **2112-7th Ave. S. Gt. Falls**

LICENSE NO...135

### DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground

(Elev. above sea level)

[illegible]

197 Show exact depth of bottom

47812

5257

STATE OF MONTANA, } ss.  
County of Cascade.

I hereby certify that the within in-  
strument was filed in this office on:

**NOV 18 1970**

Date

at 11:17 o'clock A M

**J. L. LENNON**

County Clerk and Recorder

By

*R. E. Balema*

Deputy.

File No. ....

T. 21N R. 2E

DUPLICATE

County Cascade

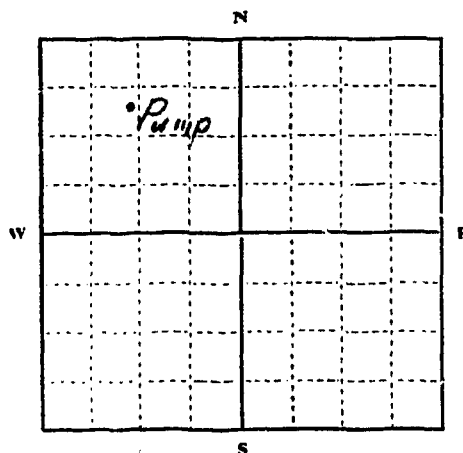
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 9 1964  
STATE ENGINEER

## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Hilmer R. Trost, of Box 255, Brady, Montana  
(Name of Appropriator) (Address) (Town)  
County of Pondera State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NW 1/4 Sec. 31 T. 21N R. 2E

Indicate point of appropriation  
and place of use, if possible. Each  
small square represents 10 acres.

2. The beneficial use on which the claim is based  
House and stock water
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1956 - used daily
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 15 gal. per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof  
Garden and lawn
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal  
Electric pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1956 (approximately)
8. The depth of water table 30 ft.
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. Drilled and cased
10. The estimated amount of groundwater withdrawn each year 1,000,000 gallons
11. The log of formations encountered in the drilling of each well if available Through clay into gravel.
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.

Signature of Owner

Hilmer R. TrostDate Dec. 31, 1962

Three copies to be filed by the owner with the 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.

28413

4427

CLERK AND RECORDER  
GALLATIE COUNTY, MONTANA  
I HEREBY CERTIFY THAT THE WITHIN  
DOCUMENT WAS FILED FOR RECORD  
IN THIS OFFICE ON  
DEC 31 1964  
AT 12:54 P.M.  
AND IS BEING KEPT AS DOCUMENT  
NO.  
J. L. LENNON  
CLERK AND RECORDER  
BY *H. C. R. D.*

[illegible]

5471

STATE OF MONTANA, } ss.  
County of Cascade.

I hereby certify that the within instrument was filed in this office on

MAR 14 1973

Date

at 9:40 o'clock A M

**J. L. LENNON**

County Clerk and Recorder.

By

*R. E. Boelen*

Deputy.



STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER  
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

(Under Chapter 237 Montana Session Laws, 1961, as amended)

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, last copy to be retained by driller.

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

Owner RICHARD E. ALEXANDER

Address 2221 - 2nd Ave. So.

Great Falls, Mont. 59405

Date well started May 11, 1973

completed June 13, 1973

Type of well Drilled

(Dug, driven, bored or drilled)

Equipment used Rotary

(Churn drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐

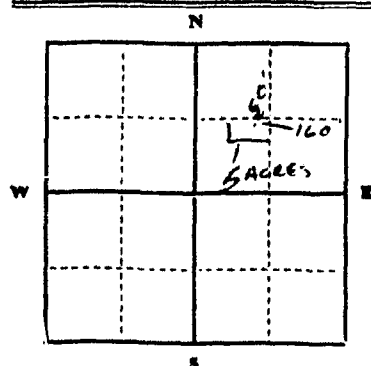
Industrial ☐ Drainage ☐ Other ☐\* Garden/Lawn ☐

\*Describe

Use: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition).

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS	Kind Size	From (Feet)	To (Feet)
7 7/8		Sfc	30				
5 5/8		30	510				
	4"x.250 Steel	Sfc	510	Slotted	490	510	



N.E. 1/4 N.W. 1/4 Sec. 3, 2

T. 21. N.R. 2 E

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE. EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature George R. Taylor

Driller's Address 503 - 34th St. N.W.

Great Falls, Montana 59404

LICENSE NO. 214

County Deer

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground

(Elev. above sea level)

From (Feet)	To (Feet)	
Sfc	3	Soil
3	8	Tan Sand & Gravel
8	10	Brown Sand & Gravel
10	39	lt. Tan Sandstone
39	45	Gray Shale
45	55	Grayish Tan Sandstone
55	59	Dark Sandy Shale
59	90	Soft Black Shale
90	95	Hard Black Sandy Shale
95	119	Black Shale
119	123	Tan Sandstone
123	142	Black Shale
142	145	Purple & Black Shale
145	158	Dark Gray Sandy Shale
158	162	Reddish Brown Shale
162	170	Bluish Gray Shale
170	175	Reddish Brown Shale
175	177	Tan Sandstone
177	180	Reddish Brown Sandstone
180	182	Tan Sandstone
182	185	Black Shale
185	195	Reddish Tan Sandstone
195	203	Gray Shale
203	210	Gray Shale
210	230	Dark Gray Sandstone
230	244	Gray Silty Sandstone
244	261	Dark Gray Sandy Shale
261	480	Red & Gray Shales
480	510	Multicolored Shale (water)

510

Show exact depth of bottom

510

5574

STATE OF MONTANA, }  
County of Cascade.

I hereby certify that the within in-  
strument was filed in this office on  
JUN 29 1973

Date  
307 o'clock P M

J. V. LENNON

County Clerk and Recorder.

*J. V. Lennon*  
Deputy

County Cascade **32**

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
MONTANA WATER RESOURCES BOARD

# NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

**Developed after January 1, 1962**

(Under Chapter 237 Montana Session Laws, 1961, as amended)

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, last copy to be retained by driller.

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

Owner **Charles D. and/or  
Victoire V. Pierce**

Address W. Gt. Falls, Mont.

Date well started 8-2-1970

completed 8-3-1970

Type of well ..... **Drilled**

(Dug, driven, bored or drilled)

Equipment used Churn drill

(Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

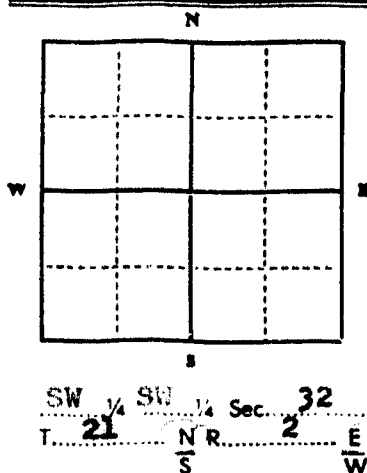
Industrial ☐ Drainage ☐ Other ☐\* Garden/Lawn ☐

**\*Describe**

**USE:** If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition).

### ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
8"	8" 28#	0	17	Not	perforated	



Static water level ..... 13 ..... ft.\*  
Pumping water level ..... 30 ..... ft.\*  
at ..... 40 ..... gallons per minute,  
measured ..... minutes after pumping  
began.

\*Measured from ground level.

Well developed by Bailer

for 1 hours.

Power..... Pump..... HP

Remarks: (Gravel packing, cementing,  
packers, type of shutoff) .....

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.  
EACH SMALL SQUARE REPRESENTS 40 ACRES.

**Driller's Signature**

Driller's Address 2110. 7th Ave. S.

LICENSE NO. **135**

**DRILLER'S LOG**

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground

(Elev. above sea level)

[illegible]

**38** Show exact depth of bottom

47456

5242

STATE OF MONTANA, } ss.  
County of Cascade.

I hereby certify that the within in-  
strument was filed in this office on

AUG 28 1970

Date

at 4:27 o'clock PM

**J. L. LENNON**

County Clerk and Recorder.

R. E. Baleman

Deputy.

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER  
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

(Under Chapter 237 Montana Session Laws, 1961, as amended)

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, last copy to be retained by driller.

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

Owner **B & C Realty**

Address **1100 14th St SO**

**Great Falls, Mont 59401**

Date well started **17 Aug 1972**

completed **21 Aug 1972**

For Administrator's Use

File **5470**

**MARCH 9, 1973**

GW 1 **3:25 p.m.**

Type of well **Drilled**

(Dug, driven, bored or drilled)

Equipment used **Rotary**

(Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

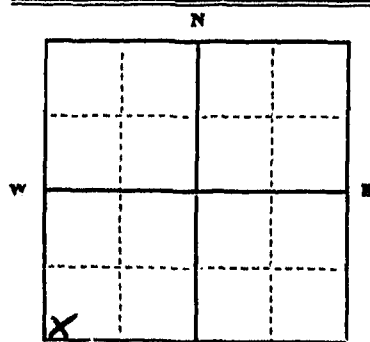
Industrial ☐ Drainage ☐ Other ☐\* Garden/Lawn ☒

\*Describe

USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition).

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
7 1/8	4" PVC	Sfo	50	Kind Size	From (Feet)	To (Feet)
				Slotted	45	50



S.W. 1/4 S.W. 1/4 Sec. **33**  
T. **21** N. R. **2** E

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE. EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature

Driller's Address

**Great Falls, Mont 59404**

LICENSE NO. **214**

County **Cascade**

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground

(Elev. above sea level)

From (Feet)	To (Feet)	
0	3	Top Soil
3	40	Light soft clay
40	45	Sand
45	50	Sand stone
		Water

50'

Show exact depth of bottom

52.648

5470

STATE OF MONTANA, } ss.  
County of Cascade.

I hereby certify that the within instrument was filed in this office on

**MAR 9 1973**

at 3:25 <sup>Data</sup> o'clock P M.

**J. L. LENNON**

County Clerk and Recorder.

By

J. D. Wilson

Deputy.

County.....~~Maricopa~~

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
MONTANA WATER RESOURCES BOARD

# NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

**Developed after January 1, 1962**

(Under Chapter 237 Montana Session Laws, 1961, as amended)

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, last copy to be retained by driller.

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

Owner B & C Realty

Address **1100 14th St. So.**

Great Falls, Montana 59401

Date well started August 29 1972

completed August 30 1972

Type of well ..... **Drilled**

(Dug, driven, bored or drilled)

Equipment used Rotary

.....  
(Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

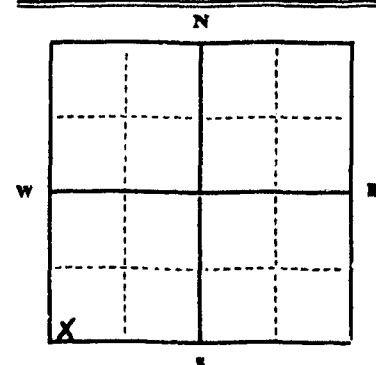
Industrial ☐ Drainage ☐ Other ☐\* Garden/Lawn ☒

**\*Describe**

**USE:** If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition).

## ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
9"	6"	sfc	60	Slotted	35	55



Static water level ..... 8 ..... ft.\*  
Pumping water level ..... 30 ..... ft.\*  
at ..... 50 ..... gallons per minute,  
measured ..... 60 ..... minutes after pumping  
began.

\*Measured from ground level.  
Well developed by Air Pump  
for 4 hours.  
Power 500 G.P. Pump 140 HP  
Remarks: (Gravel packing, cementing,  
packers, type of shutoff)  
Casing Cemented

S.W. 1/4 S.W. 1/4 Sec. 33  
T. 21 N. R. 2 E

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.  
EACH SMALL SQUARE REPRESENTS 40 ACRES.

**Driller's Signature****Driller's Address**

Great Falls Mont. 59404 LICENSE NO. 214

**DRILLER'S LOG**

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground

(Elev. above sea level)

[illegible]

55 Show exact depth of bottom

52,650

5468

STATE OF MONTANA, } ss.  
County of Cascade.

I hereby certify that the within in-  
strument was filed in this office on

**MAR 9 1973**

at 3:23 o'clock P.M.

**J. L. LENNON**

County Clerk and Recorder.

By

*J. D. Wilson*

Deputy



STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER  
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

(Under Chapter 237 Montana Session Laws, 1961, as amended)

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, last copy to be retained by driller.

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

Owner **B & C Realty**

Address **1100 14th St. So.**

**Great Falls, Montana 59401**

Date well started **Aug 31, 1972**

completed **Aug 31, 1972**

For Administrator's Use

File **5469**

**12,442,000 9, 1973**

GW 1 **3:24 p.m.**

Type of well **Drilled**

(Dug, driven, bored or drilled)

Equipment used **Rotary**

(Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

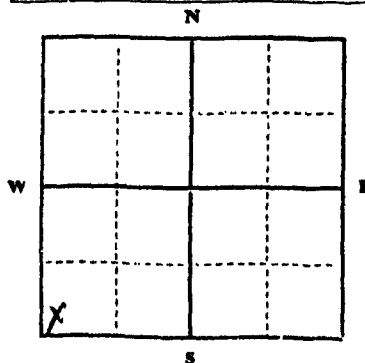
Industrial ☐ Drainage ☐ Other ☐\* Garden/Lawn ☒

\*Describe

USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition).

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
9"	6" PVO	sfc	100	Slotted	50	85



S.W. 1/4 S.W. 1/4 Sec. 33

T. 21 N R. 2 E

Static water level **8** ft.\*  
Pumping water level **60** ft.\*  
at **25** gallons per minute,  
measured **60** minutes after pumping began.

\*Measured from ground level.

Well developed by **air pump**

for **4** hours.

Power **Cat. G. D. Pump** **140** HP

Remarks: (Gravel packing, cementing, packers, type of shutoff)

**Casing Cemented**

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE. EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature

Driller's Address **503-34th St. N.W.**

**Great Falls, Mont. 59404** LICENSE NO **214**

County **Cascade**

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground

(Elev. above sea level)

From (Feet)	To (Feet)	
0	3	Top Soil
3	40	Light Soft Clay
40	60	Dark Soft Clay
60	70	Gray Shale
70	78	Red Shale
78	100	Broken Soft Sandstone
		Water

100

Show exact depth of bottom

52.649

5469

STATE OF MONTANA, } ss.  
County of Cascade.

I hereby certify that the within in-  
strument was filed in this office on

MAR 9 1973

at 3:24 o'clock P.M.

**J. L. LENNON**

County Clerk and Recorder.

By J. L. Wilson  
Deputy.

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER  
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

(Under Chapter 237 Montana Session Laws, 1961, as amended)

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, last copy to be retained by driller.

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

Owner B & G Realty

Address 1100 14th St. So.

Great Falls, Montana 59401

Date well started 8 Dec '72

completed 21 Dec '73

Type of well Drilled

Equipment used Rotary

Water Use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐

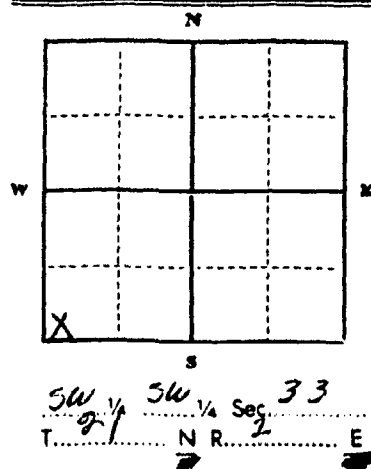
Industrial ☐ Drainage ☐ Other ☐\* Garden/Lawn ☐

\*Describe

USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition).

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS	Kind Size	From (Feet)	To (Feet)
7 7/8		3fe	75				
5 5/8	4" .258 steel	8fe	555	Slotted	835	555	



INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE. EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature George T. Taylor

Driller's Address 503 - 34th St. N.W.

Great Falls, Mont. 59404

LICENSE NO. 214

County Cascade

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground

(Elev. above sea level)

From (Feet)	To (Feet)	
3fe	10	Soil
10	12	Gravel
12	18	Sand
18	26	Gravel
26	45	Sandstone
45	225	Black & Gray Shale
225	240	Light Tan Sandstone
240	248	Red & Gray Shale
248	260	Black Shale
260	285	Red Shale
285	345	Black Shale
345	395	Red & Gray Shale
395	415	Multi Colored Shale
415	455	Gray Shale
455	460	Gray Sandy Shale
460	540	Dark Gray Shale
540	555	Multi Colored (water)

555 Show exact depth of bottom

52.651

5467

STATE OF MONTANA, } ss.  
County of Cascade.

I hereby certify that the within in-  
strument was filed in this office on

MAR 9 1973

Date

at 3:22 o'clock P.M.

**J. E. LENNON**

County Clerk and Recorder.

By

J. S. Wilson  
Deputy.

GW

File No. ....

DUPLICATE

T. .... R. ....

County. ....

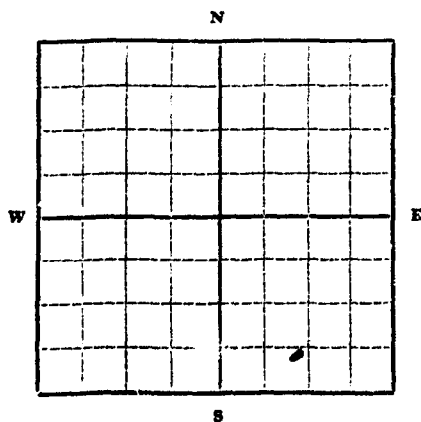
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

**Declaration of Vested Groundwater Rights**

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. **AMOS COOK**, of **ROUTE 1 WEST, GREAT FALLS**,  
(Name of Appropriator) (Address) (Town)  
County of **CASCADE** State of **MONTANA**  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



**SW 1/4 SE 1/4 Sec. 34 T21N R2E**

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based **Household use and to irrigate lawn and garden**
3. Date or approximate date of earliest beneficial use; and how continuous the use has been **1945 - continuous**
4. The amount of groundwater claimed (in miner's inches or gallons per minute) **50 gallons**
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof **one acre of lawn and garden owned by Amos Cook**
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal **Natural flow**
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater **August - 1945**
8. The depth of water table **Flowing well under pressure**
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater **2 1/2" pipe - 195 feet**
10. The estimated amount of groundwater withdrawn each year **3,720,000 gallons**
11. The log of formations encountered in the drilling of each well if available **Not available**
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.

Signature of Owner

*Amos Cook*

Date **June 6, 1962**

Three copies to be filed by the owner with the 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.

938

3134

STATE OF MONTANA, } ss.  
County of Cascade.

I hereby certify that the within in-  
strument was filed in this office on

JUN 25 1962

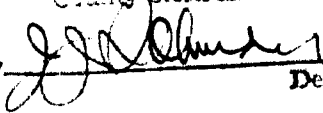
Date

at 11:50 o'clock AM.

**J. E. LENNON**

Clerk and Recorder.

By



Deputy.

County... Cassia

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
MONTANA WATER RESOURCES BOARD

## NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

**Developed after January 1, 1962**

(Under Chapter 237 Montana Session Laws, 1961, as amended)

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, last copy to be retained by driller.

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

Owner **Charles C. Lovell**

Address Manchester Road

Great Falls, Ont.

Date well started 4-22-1972

completed 4-25-1972

Type of well ..... **Drilled**

(Dug, driven, bored or drilled)

Equipment used Churn drill

(Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

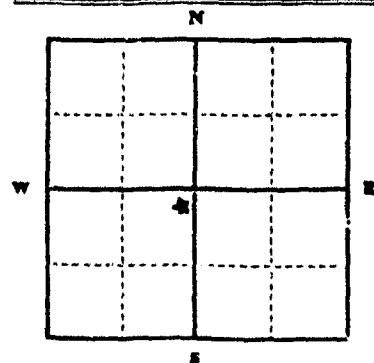
Industrial ☐ Drainage ☐ Other ☐\* Garden/Lawn ☐

**\*Describe**

**USE:** If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition). .....

### ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6-5/8	6-5/8	0	132	NOT PERFORATED		



Static water level 8' above GL.  
Pumping water level 30 ft.  
at 30 gallons per minute,  
measured        minutes after pumping  
began.

\*Measured from ground level.

Well developed by ...bailer.

for 2 hours.

Power..... Pump..... HP

Remarks: (Gravel packing, cementing,  
packers, type of shutoff) .....

DE 1/4 Cal... 1/4 Sec. 34

1 21N .. N R...24..... E  
S W

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.  
EACH SMALL ~~SQUARE~~ REPRESENTS 40 ACRES.

Driller's Signature \_\_\_\_\_

Driller's Address St. Falls, Montana

LICENSE NO....135

## DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground (Elev. above sea level)

[illegible]

142 Show exact depth of bottom

50,329

5357

STATE OF MONTANA, } ss.  
County of Cascade.

I hereby certify that the within instrument was filed in this office on

MAY 1 1972

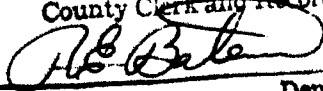
Date

at 4:35 o'clock P.M.

**J. L. LENNON**

County Clerk and Recorder.

By



Deputy.



51, 13,

5391

STATE OF MONTANA, } ss.  
County of Cascade.

I hereby certify that the within in-  
strument was filed in this office on

**JUL 26 1972**

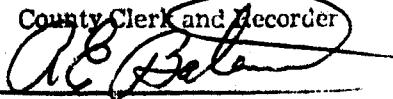
Date

at 8:17 o'clock PM

**J. L. LENNON**

County Clerk and Recorder

By



Deputy.

File No. ....

T. 21N R. 2E 35

DUPLICATE

JUN 6 1966

County CascadeSTATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEERNotice of Completion of Groundwater  
Appropriation by Means of Well

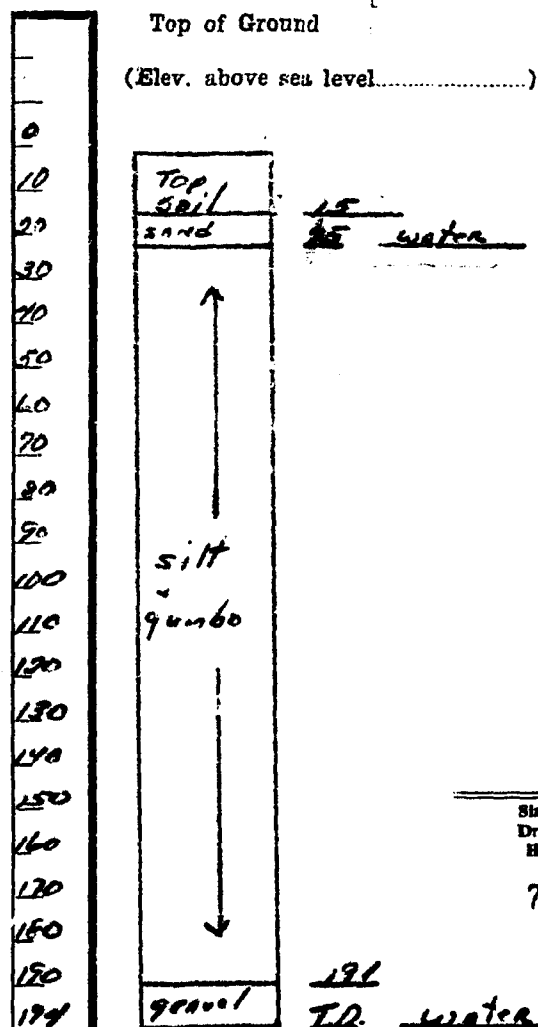
(Under Chapter 237, Montana Session Laws, 1961)

Owner Wesley W. Anderson Address Manchester West Great Falls  
2112-7 Ave. S.  
Driller Pat Byrne Address Great Falls, Mont.

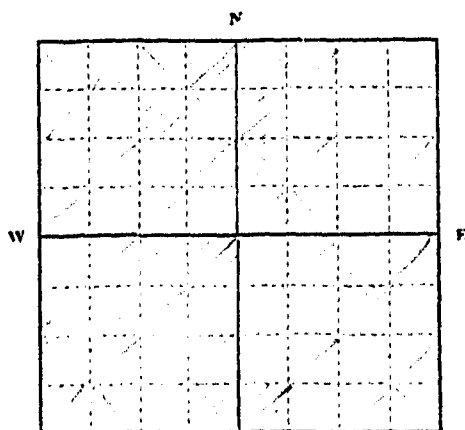
Date of Notice of Appropriation of Groundwater .....

Date well started April 29, 1966 Date Completed May 3, 1966Type of well Drilled Equipment Used Churn drill  
(dug, driven, bored or drilled) (Churn, drill, rotary or 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.



Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
7"	7" OD 17" Seamless 1-55 Spang	0'	294'	NOT PERFORATED		



Sec. 35 T. 21N R. 2E  
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Static Water Level for non-flowing Well 4 Above G.A.L. feet.Shut-in Pressure for Flowing Well 2#Pumping Water Level 30 feet at 20 gal. per minute.Discharge in gal. per min. of flowing well 1How Tested Bailer Length of Test 4 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff, location 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) .....

See Reverse Side of Page for Notarization

135  
Driller's License Number

  
Driller's Signature

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.

41115

STATE OF MONTANA )  
COUNTY OF CASCADE)

Before me, H. G. Clark, a Notary, Personally appeared Pat Byrne,  
who acknowledged that he signed the paper on the reverse side as the  
driller. Dated at Great Falls, Montana This 31st day of May, 1966.

H. G. Clark  
H.G. Clark

Notary Public for the State of Montana  
My Commission expires April 20, 1969

STATE OF MONTANA, ) ss.  
County of Cascade.

I hereby certify that the within in-  
strument was filed in this office on

MAY 31 1966

Date

at 4:15 o'clock P. M.

**J. L. LENNON**

County Clerk and Recorder.

By

Deputy.

4966

File No. ....

T. .... R. 35

DUPLICATE

County Cascade

LOG

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEERNotice of Completion of Groundwater  
Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

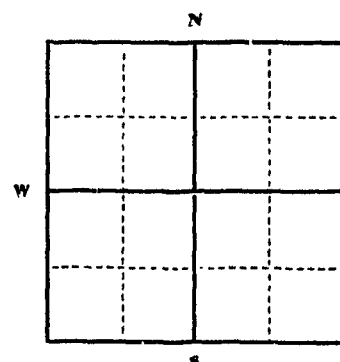
Top of Ground

(Elev. above sea level.....)

From Surface to 132 ft.  
Special Drift. SumboOwner John Alcox Address Great Falls, Mont.Driller Thomas B. Franklin Address Great Falls, Mont.Date of Notice of appropriation of groundwater May 11, 1968Date well started May 13, 1968 Date completed May 17, 1968Type of well Drilled, Driven Equipment used Cable Tools  
(Dug, driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☒  
Industrial ☐ Drainage ☐ Other ☐

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 the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
5 inch	5 inch Oil Well Casing 17 lbs per ft.	Surface	135 ft.	None	None	None

Static Water Level for non-flowing well ..... 1 feet.Shut-in Pressure for Flowing Well NonePumping Water Level 20 feet  
at 30 gal. per minute.Discharge in gal. per min. of flowing well ..... NoneHow Tested BailerLength of Test 2 hrs.Remarks: (Gravel packing, cementing, packers, type of shutoff) NoneSE 1/4 Sec. 35 T. 2. N. 2. E.  
Indicate location of well and place of use, if possible. Each small square represents 40 acres.132 ft.  
132 ft. to 135 ft  
Water bearing sand,  
Gravel.

Show exact depth of bottom.

135

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, tissue copy to be retained by driller.

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

84  
Driller's License NumberThomas B. Franklin  
Driller's Signature.

44,939

5155

I hereby certify that the within is  
a true and correct copy of the original as  
it was filed in this office on

JAN 23 1969

9:16 o'clock A.M.

J. L. FERNON  
County Clerk and Recorder

by *[Signature]*  
Deputy.

File No. ....

T 21 R 2E

DUPLICATE

County Cascade

**STATE 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 A. F. Crawford & Geneva Crawford Address Manchester, Montana

Driller A. F. Crawford (owner) Address Manchester, Montana

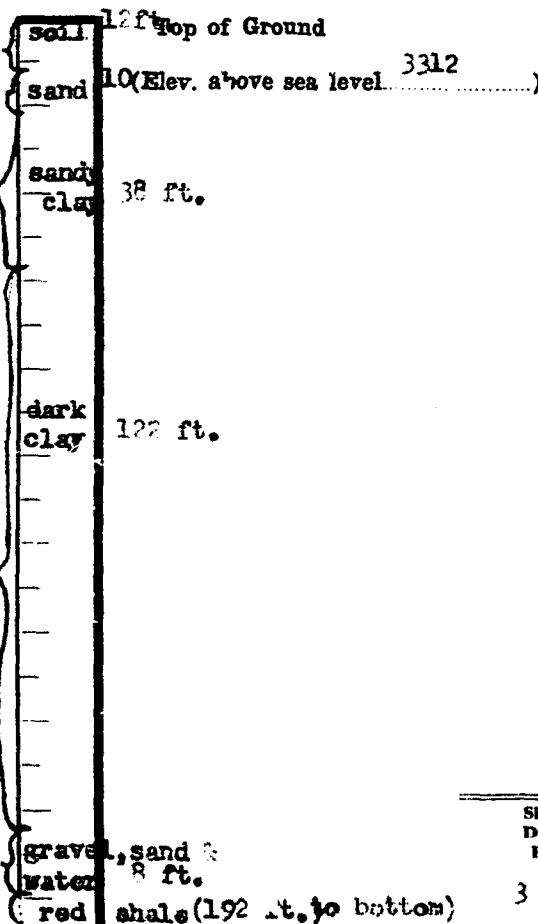
Date of Notice of Appropriation of Groundwater .....

Date well started Nov. 1, 1963 Date Completed Nov. 10, 1963

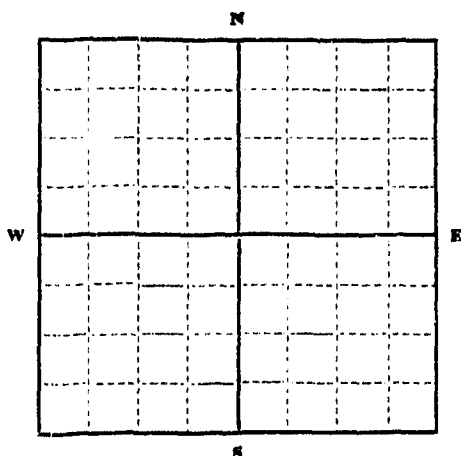
Type of well Drilled Equipment Used Rotary  
 (dug, driven, bored or (Churn, drill, rotary or  
 drilled) other)

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.



Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
3 inches	2 inch galvanized pipe	0	182 ft.			
to						
2 inches	none	182 ft.	192 ft.			



31 1/4 Sec. 35 T21N R22E  
 Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Complete description of land: A tract of land in the Southwest Quarter of the Southwest Quarter (SW 1/4) of Section Thirty-five (35), Township twenty-one (21) North, Range Two (2) East, M.P.M., said tract consisting of the North 200.0 feet of the East

351.0 feet of said Southwest Quarter of the Southwest (continued to back of page). 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.

Driller's License Number

Driller's Signature

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.

9924

Quarter (SW<sup>1</sup>SW<sup>4</sup>), Section Thirty-five (35), Township Twenty-one (21) North, Range Two(2)  
East, Cascade County, Montana.



#3537

STATE OF MONTANA, } ss.  
County of Cascade.  
I hereby certify that the within in-  
strument was filed in this office on  
DEC 17 1903  
at 10:15 o'clock A.M.  
J. L. LENNON  
County Clerk and Recorder.  
By *[Signature]* Deputy.

File No. ....

T. 21 R. 2E

DUPLICATE

County .....

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 9 1964

# Notice of Appropriation of Groundwater

(Under Chapter 237, Montana Session Laws, 1961) STATE ENGINEER

**George L. Dent and Mrs.**

1. **George L. Dent** of **2025 Central Ave. W., Great Falls,**  
(Name of Appropriator) (Address) (Town)

County of **Cascade**, 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 **domestic household use; live-stock; lawn irrigation on lands described in No. 10.**  
(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 gallons per minute**

4. The annual period (inclusive dates) of intended use **all year round.**

5. The probable or intended date of first beneficial use **Has been used since September, 1963, for above beneficial uses.**

6. The probable or intended date of commencement and completion of the well\* or wells\* .....

**Well was completed in September, 1963.**

7. The location, type, size and depth of well or wells contemplated **Located in 1.9 acre tract described in No. 10 below; artesian well with pump; 2" casing; 175 feet.**

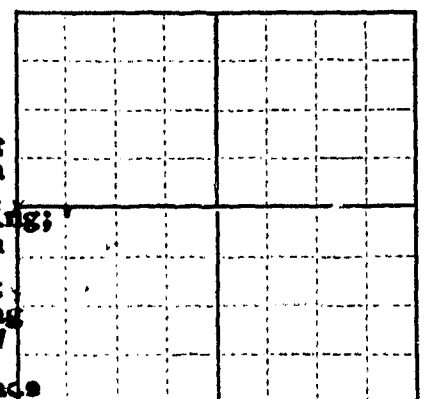
8. The probable or estimated depth of the water table or artesian aquifer **Approximately 172'**

9. Name, address and license number of the driller engaged .....

**George L. Dent**

10. Give such other similar information as may be useful

in carrying out the policy of this act. **Beginning at the NW Corner of the NW $\frac{1}{4}$ SW $\frac{1}{4}$  of Sec. 35; T. 21 N., R. 2 E., marked by an iron pipe; thence along the West line of said NW $\frac{1}{4}$ SW $\frac{1}{4}$  Sec. 35, South 0°33' W., 1272.5 feet to an iron pipe; thence S. 89°24' E. 875.2 feet to an iron pin, the true point of beginning; thence N. 23°04' E. 677.7 feet to an iron pin; thence S. 0°25' W. 628.1 feet to an iron pipe; thence N. 89°24' W. 261.0 feet to the true point of beginning, containing in all 1.9 acres; and Beginning at the NW corner of the NW $\frac{1}{4}$ SW $\frac{1}{4}$  of said Sec. 35, T. 21 N. R. 2E, marked by an iron pipe; thence along the West line of said NW $\frac{1}{4}$ SW $\frac{1}{4}$ , Sec. 35, S. 0°33' W., 1272.5 feet to an iron pipe; thence S 89°24' E, 1344.9 feet to an iron pipe on the West right of way line of a county road; thence along the said West right of way line of the county road N 0°25' E, 417.42 feet to an iron pin; thence N 89°24' W. 208.71 feet to an iron pin; thence S. 0°25' W. 417.42 feet to an iron pin; thence S 0°25' W. 417.42 feet to an iron pin; thence S 89°24' E, 208.71 feet to the true point of beginning,**



1/4 Sec. T. R. S.  
Locate well or other means of development as accurately as possible on the plat.

Signature of Appropriator *George L. Dent*

Date *Dec 30, 1963*

\* 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.

28282

4330

STATE OF MONTANA, }  
County of Cascade. }

I hereby certify that the within in-  
strument was filed in this office on  
DEC 31 1968

at 11:11 o'clock 9 M.

**J. L. LENNON**  
County Clerk and Recorder.

By Ble. Deputy.

File No. ....

T. 21N R. 2 East

DUPLICATE

MONTANA WATER RESOURCES BOARD  
RECEIVEDCounty Cascade

LOG

SEP 29 1969

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
STATE WATER CONSERVATION BOARD**Notice of Completion of Groundwater  
Appropriation by Means of Well**  
DEVELOPED AFTER JANUARY 1, 1962

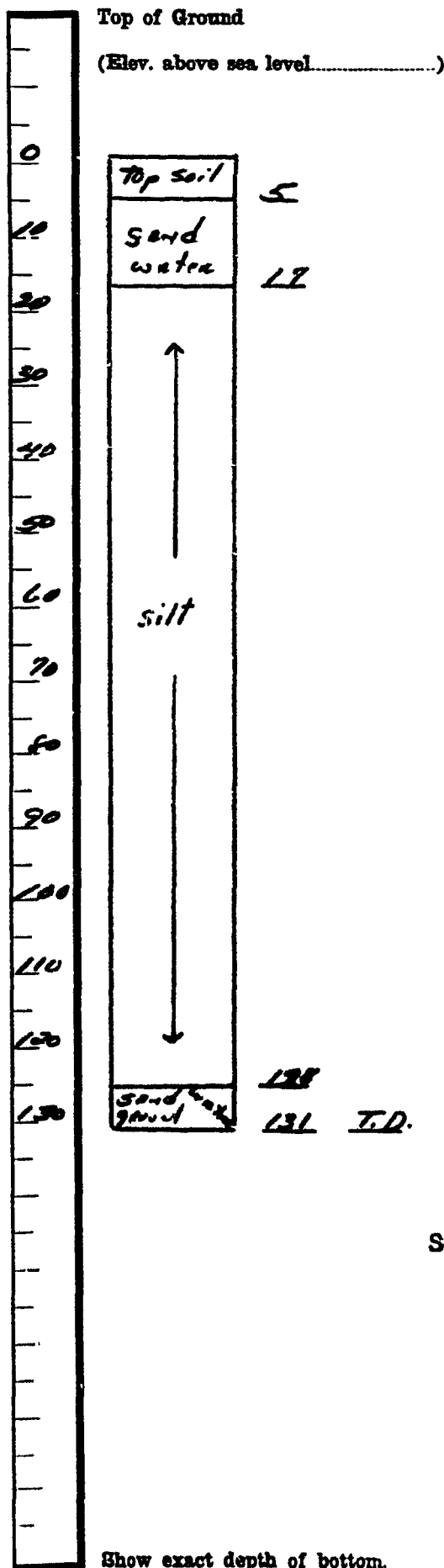
(Under Chapter 237 Montana Session Laws, 1961, as amended)

Owner Richard & Emily A. Goehring Address Gt. Falls, Mont.Driller Pat Byrne Address Gt. Falls, Mont.

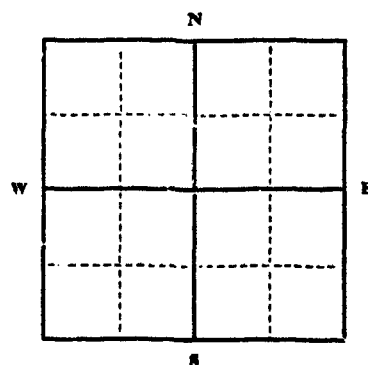
Date of Notice of appropriation of groundwater.....

Date well started 4-22-1969 Date completed 4-25-1969Type of well Drilled Equipment used Churn drill  
(Dug, driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐  
Industrial ☐ Drainage ☐ Other ☐

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 the water rises in the well.



Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6-5/8"	6-5/8" OD	0	131	NOT PERFORATED		

Static Water Level for non-flowing well  
.....67.....feet.

Shut-in Pressure for Flowing Well.....

Pumping Water Level.....20.....feetat 20 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested BailerLength of Test 3 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff).....

SE 1/4 NE 25 21N R2E  
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition).

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, tissue copy to be retained by driller.

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

135  
Driller's License Number

Driller's Signature

45688