

File No.

T. 36 N. R. 3 E. 25

DUPLICATE

MONTANA WATER RESOURCES BOARD

County Cascade

LOG

RECEIVED

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

AUG 12 1966

Top of Ground

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

LoamSiltSandy SiltWater Fine GravelShale
Show exact depth of bottom.**Notice of Completion of Groundwater****Appropriation by Means of Well**

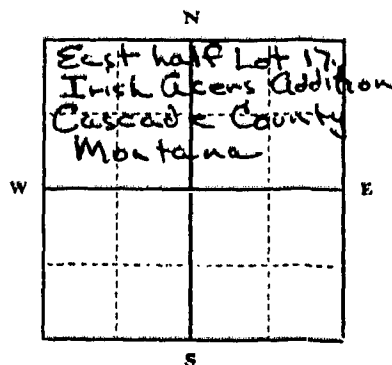
DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner Charles Leininger Address Rt 1 South G.F.Driller E.D. Rafferty Address 927 10th Ave S.W.Date of Notice of appropriation of groundwater June 28 1968Date well started June 25 Date completed June 28Type 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"	6"	0'	107'	Casing driven open End into gravel		

Static Water Level for non-flowing well 35 feet.

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

Pumping Water Level 40 feet
at 40 gal. per minute.

Discharge in gal. per min. of flowing well.....

How Tested BailerLength of Test 1 hour

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

1/4 Sec. T. R.
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.

#28
Driller's License NumberE.D. Rafferty
Driller's Signature

44,494

5129

5129

STATE OF MONTANA, } ss.
County of Cascade.

That the within in-
strument was filed in this office on
AUG 6 1968

at 12:00 P.M.

J. L. LEMMON
County Clerk and Recorder.

by *E. J. Hartman*
Deputy.

GP-1

MONTANA WATER RESOURCES BOARD Approved Stock Form—State Publishing Co., Helena, Montana—46805

File No. _____

RECEIVED

T. 20N R. 3E

DUPLICATE

AUG 14 1967

County Cascade

LOG

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

STATE WATER CONSERVATION BOARD

Top of Ground

(Elev. above sea level 3460)

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

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

0 to 2 ft Leam
2 - 25 Silt
25 - 36 Sandy Silt
36 - 39 Gravel
39 - 50 Sand Rock
Water filled up to 33 ft
from top

Owner Robert Leininger Address Rural Rt #1, Box 1011

Driller E. D. Rafferty Address 927 10th Ave S.W.

Date of Notice of appropriation of groundwater _____

Date well started March 27, 1964 Date completed March 30, 1964

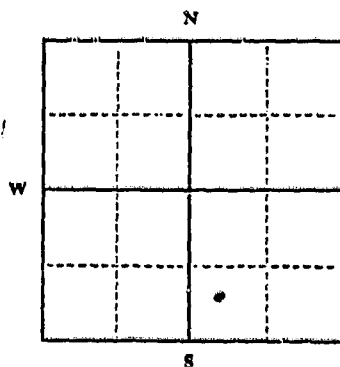
Type of well Drilled Equipment used churn
(Dug, driven, bored or drilled) (Churn drill, rotary or other)

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 inch	6 inch 2.D. 19 lbs per ft	0	39	casing driven to top	open end of sand	rock

*E 25' Lat 7 R
- brick Reservoir*



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

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

Pumping Water Level.....35.....feet
at.....25.....gal. per minute.

Discharge in gal. per min. of flowing well
.....X.....

How Tested.....Boiler.....

Length of Test.....One hour.....

Remarks: (Gravel packing, cementing, packers, type of shutoff).....
Formation shut-off

SE 1/4 Sec. 25 T. 20N R. 3E
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).

50 ft
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.

28
Driller's License Number

E. D. Rafferty
Driller's Signature.

42,200

5033

STATE OF MONTANA, } ss.
County of Cascade.

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

AUG 10 1967
Date

at 10:30 o'clock PM M

J. L. LENNON

County Clerk and Recorder

By R. E. Salaman
Deputy

File No. _____

MONTANA WATER RESOURCES BOARD

T. 20N R. 3E

ORIGINAL

RECEIVED

County Cascade

LOG

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

STATE WATER CONSERVATION BOARD

Top of Ground

(Elev. above sea level 2442)**Notice of Completion of Groundwater
Appropriation by Means of Well**

DEVELOPED AFTER JANUARY 1, 1962

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

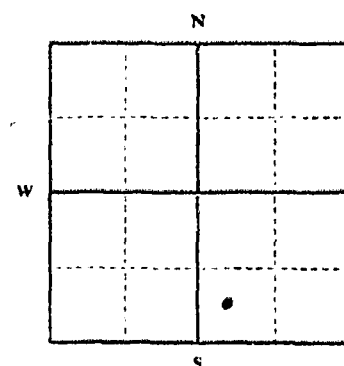
Owner Robert Leininger Address Rural Rt. #1, Box 1011Driller E. E. Rapperty Address 327-10 Ave. S.W.

Date of Notice of appropriation of groundwater _____

Date well started March 27-64 Date completed March 30-64Type of well Drilled Equipment used Churn
(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 inch	6 inch V. S. 19 lb per ft	0	39	Casing driven open end to top of sand Rock		

SE 1/4 Sec 25 T20N R3E
Indicate location of well and place of use, if possible. Each small square represents 40 acres.Static Water Level for non-flowing well 23 feet.Shut-in Pressure for Flowing Well XPumping Water Level 25 feet
at 25 gal. per minute.Discharge in gal. per min. of flowing well XHow Tested PackerLength of Test One hourRemarks: (Gravel packing, cementing, packers, type of shutoff) Formation shut off

(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).

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, these copy to be retained by driller.

Please answer all questions. If not applicable, so state. Return the form well to returned.

Driller's License Number

Driller's Signature

5033

AUG 10 1967

10:30 A

R. E. Bateman

File No.

T 20 N R 3 E

DUPLICATE

County Cascade

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

12784
JAN 1 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

Richard A Metzger
(Name of Appropriator)

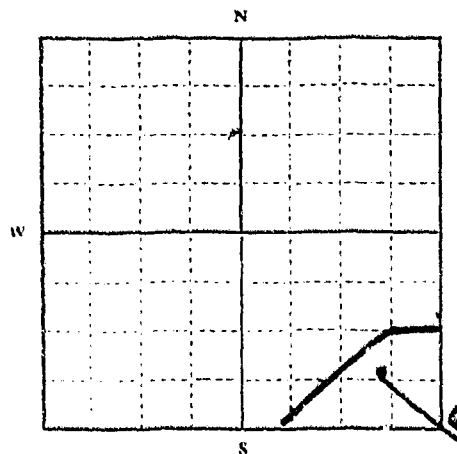
of Rte 1 South
(Address)

Great Falls
(Town)

County of Cascade

State of Mont.

have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



Sec 1/4 Sec 25 T.20N R.3E

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
Lawn, Garden

3. Date or approximate date of earliest beneficial use; and how continuous the use has been July 1960 Continuous use

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 40 Gal Per Min.

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
Lawn + Garden

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Jet Pump
3/4 Horsepower

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater July 10, 1960, July 12, 1960

8. The depth of water table 40 Feet to Top

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 well 6 in casing use Jet Pump for withdrawal

10. The estimated amount of groundwater withdrawn each year 328,500. B. 100 Gal Per Person day

11. The log of formations encountered in the drilling of each well if available 0 to 2 loam, 2 to 20 Silt, 20 to 22, Gravel, 22-33 Red Shale, 33 to 50 Sand Rock

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 Lot #6 Irish Acres Addition

Signature of Owner

Richard A Metzger
Date 12/31/62

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.

28340

4350

CLERK AND RECORDER
CASCADE COUNTY, MONTANA

I HEREBY CERTIFY THAT THE WITHIN
INSTRUMENT WAS FILED FOR RECORD
IN THIS OFFICE ON

DEC 31 1963

AT 11:35⁵ a^m
AND DULY RECORDED AS DOCUMENT

NO. _____
J. L. LENNON
CLERK AND RECORDER

BY 
DEC 31 1963

File No.

MONTANA WATER RESOURCES BOARD

T. 26N R. 3E

DUPLICATE

RECEIVED

County Cascade

LOG

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

Top of Ground

(Elev. above sea level) 3760**Notice of Completion of Groundwater
Appropriation by Means of Well**

DEVELOPED AFTER JANUARY 1, 1962

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

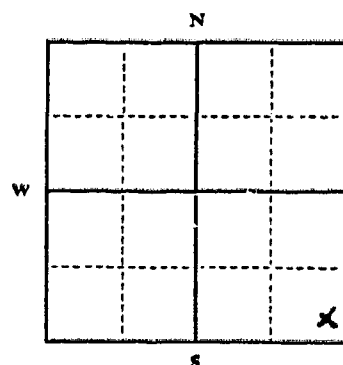
0-16 ft Gravel16-43 seepage sand rock43-46- Lime46-55 sand Rock55-68 Redd. Gray shale68-77 water sand RockOwner Ruffert, M. & L. L. Address Spokane Falls, IdahoDriller E. D. Ruffert Address 927-10 ave. So. Helena

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

Date well started Mar 12-68 Date completed Mar 16-68Type of well..... Equipment used Churn
(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)
<u>5 1/2 in</u>	<u>5 5/8 OD</u>	<u>0</u>	<u>11 ft</u>			
	<u>14 lb per ft</u>					
				<u>Casing down to top of Sand Rock</u>		

Static Water Level for non-flowing well 30 ft feet.

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

Pumping Water Level 60 feetat 975-18 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested dupp. BalorLength of Test 20 minRemarks: (Gravel packing, cementing, packers, type of shutoff) none1/4 Sec. T. R.
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).

Lot 1 Gravel Acres77

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.

#28
Driller's License NumberE. D. Ruffert
Driller's Signature.

44,037

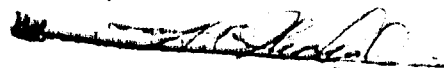
5084
5084

STATE OF MONTANA, } ss.
County of Cascade.

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

at _____ o'clock _____ M.

J. L. LENNON
County Clerk and Recorder


Deputy.

File No.

T 20 N R 3 E

DUPLICATE

County

Cascades

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

APR 1 1964

Top of Ground

(Elev. above sea level. 3460.)

Notice of Completion of Groundwater
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1951)

Owner R. J. Michelotto Address Route 1 SoDriller E. D. Rafferty Address 927-10 Ave S HelenaDate of Notice of Appropriation of Groundwater July 20-62Date well started July 19-62 Date Completed July 21-62Type of well deep shell drilled Equipment Used Reystone

(dug, driven, bored or drilled) (Churn, drill, rotary or other)

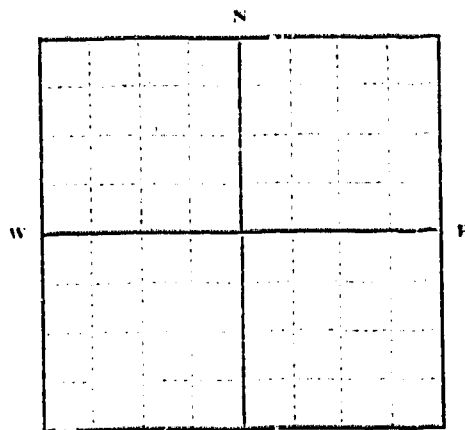
Water Use: Domestic ☒ Municipal ☐ Other ☐ Irrigation ☐Industrial ☐ Drainage ☐ Stock ☐

0-2- Loam
2-9 Gravel
9-16 Red Shale
16-32 ~~Sand Rock~~
32-34 Red Shale
34-44 water Sand Rock
44-45 Lime

water filled
to 35 ft from Top

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)
5 in	5 in 9 lb per ft	0	16	Casing	down to	top Sand Rock



SE 1/4 Sec 25 T20N R3E
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 35 ft feet.Shut-in Pressure for Flowing Well nonePumping Water Level 35 feet at 18 gal. per minute.Discharge in gal. per min. of flowing well noneHow Tested Bauer Length of Test 1/2 hr

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)

28

Driller's License Number

E. D. Rafferty
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.

35551

4735

STATE OF MONTANA, } ss.
County of Cascade.

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

MAR 31 1964

Date

at 12:15 o'clock, P.M.

J. L. LENNON

County Clerk and Recorder.

By

[Signature]

Deputy.

File No.

Sec 25 T. 20 R. 3 E

DUPLICATE

County Beauregard

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

Top of Ground

(Elev. above sea level 3300)Notice of Completion of Groundwater
Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962

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

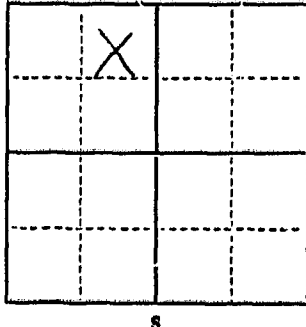
1-2 ft Sandy Clay
20-38 ft Clay
38-56 ft Red Shale Creek
56-58 ft Bentonite
Very HardOwner Will Newman Address Box 1 South
Driller Roscoe Peet Address 1360-13th St S.W.

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

58-63 Hard sandstone Date well started April 15 Date completed May 15 1962Type 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 ☐63-67 fine over sandstone
67-78 sandstone

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)
8"	8"	58'9"	58'9"	None		
6 1/4"	open hole	58'9"	78'			

Date May 15 1962
Filed for record February 1 1962
A. D. 19 71 at 1:30
o'clock P.M.N.E. 1/4 Sec. 25 T. 20 N. R. 3 E.
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

Static Water Level for non-flowing wellfeet.

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

Pumping Water Level 33 feetat 15 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested BoilerLength of Test 40 min. 4 Times

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

Casing driven into
Two ft. Bentonite

(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).

78 ft
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.

73
Driller's License NumberRoscoe Peet
Driller's Signature.

48113

5271

STATE OF MONTANA,)
County of Cascade)

I have hereunto take within the
jurisdiction of this office on

11th 1937

at 1:30 o'clock P.M.

J. L. DENNISON

County Clerk and Recorder

by *[Signature]*
Deputy

Y'D 18
LAW 18
1871

File No.

DUPLICATE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

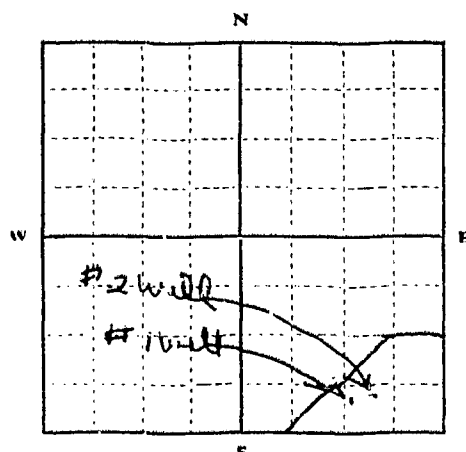
T. 20 N. R. 3 E
County: Cascade
JAN 9 1964

STATE ENGINEER
referred to as #1 & #2

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Barth E O'Day, of Rt 150 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 Sec 25 T. 20 N. R. 3 E

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 garden & lawn
3. Date or approximate date of earliest beneficial use; and how continuous the use has been. #1 Aug 1956
#2 July 1962 both continuous
4. The amount of groundwater claimed (in miner's inches or gallons per minute) #1 - 30 gal per min
#2 - 18 gal per min
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 only
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
#1 with jet pump 3/4 H.P.
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. #1 Aug 16 - 1956 finished Aug 30 - 1956
#2 July 17 - 1961 finished July 21 - 1961
8. The depth of water table 44 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
#1 - 6" casing 50'
#2 - 6" casing 60'
10. The estimated amount of groundwater withdrawn each year #1 153600
#2 153600
11. The log of formations encountered in the drilling of each well if available. Well #1 0 to 2 loam
2 to 12 silt 12 to 21 gravel 21 to 50 sand rock 30 gal per min
#2 well 0 to 10 sandy silt 10 to 30 silt 30 to 40
gravel 40 to 44 sand rock 44 to 46 red shale
46 to 60 sand rock 18 gal per minute
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. #1 well located lot #2
Irish Acres addition #2 well located lot #7 Irish Acres addition

Signature of Owner Barth E O'DayDate 12-30-63

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.

28021

4036

STATE OF MONTANA, } ss.
County of Cascade.

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

DEC 30 1968

Date

at 12:07 o'clock PM

J. L. LENNON

County Clerk and Recorder

By hbi Deputy.

File No.

T. R.

DUPLICATE

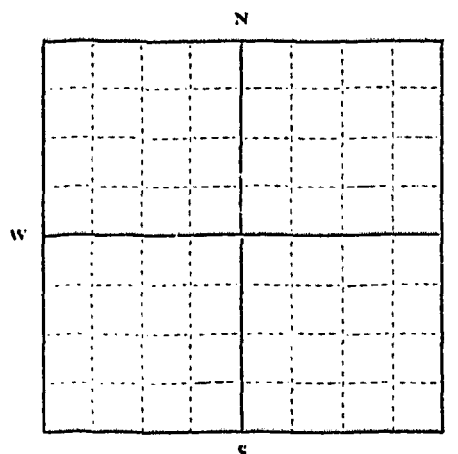
County.

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. Harry A. Shall of Route 1 South 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 Sec 25 T. 20N R. 3E 1PM

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 irrigation
3. Date or approximate date of earliest beneficial use; and how continuous the use has been c/a Feb 11, 1957. Has been used continuously.
4. The amount of groundwater claimed (in miner's inches or gallons per minute) approx. 35 gpm
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 Irrigation only for yard, (Lawn). Size 70 x 100ft.
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal shallow well pump used.
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater February 1957
8. The depth of water table approx. 6 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 The well was dug and 5ft concrete culverts lowered one on top of other to form permanent casing. Complete depth approx 25-30ft.
10. The estimated amount of groundwater withdrawn each year Unknown; family of 6 with automatic washer and dishwasher*
11. The log of formations encountered in the drilling of each well if available None 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 Book 263 Page 205, 206, 207, 208
This well located in property now owned by Cascade County and named Sandra Park. This well was in use before Property was deeded to county.

Signature of Owner

Harry A. Shall

Date 12-30-63

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.

27925

3937

STATE OF MONTANA
County of Cascade
I hereby certify that the within
instrument was filed in this office on
_____ 1958

at _____
9:22
J. E. FENNER
County Clerk & Recorder

By J. J. Chumley
Deputy

File No.

T. R.

DUPLICATE

County.

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECORDED
JAN 9 1964

STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

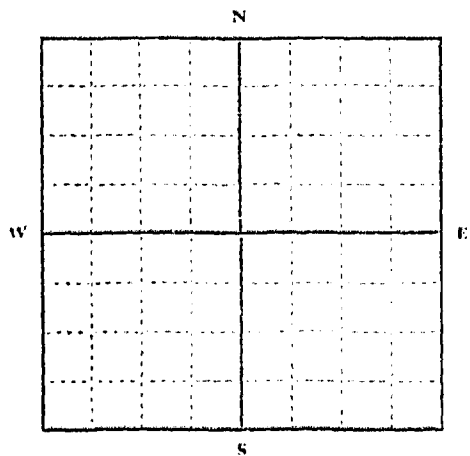
(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater February 11, 1957Owner Harry A. Shell Address Rt. 1 So. Ft. Falls, MontContractor (if any) None

Address of Contractor

Date Started..... Date Completed.....

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Natural springs that feeds that portion of Sand Coulee Creek that ~~now~~ is on owners property. Creek is dry most of time with exception of parts fed by springs.



SW 1/4 Sec. 25, T. 20N R. 3E
Indicate point of appropriation
and place of use, if possible.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use. Used to water horses (now 2) owned by owner of property. Amount unknown. Used year round.

Signature of Owner Harry A. ShellDate Dec 22, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

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

3938

STATE OF MONTANA, ss.
County of Cascade.

I hereby certify that the within in-
strument was filed in this office on
FEB 30 1958

923

at _____ o'clock _____ M.

J. L. RICHMOND

County Clerk and Recorder.

by J. J. Schuster
Deputy.

File No.

T. R.

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. HARRY H. SNELL
(Name of Appropriator)

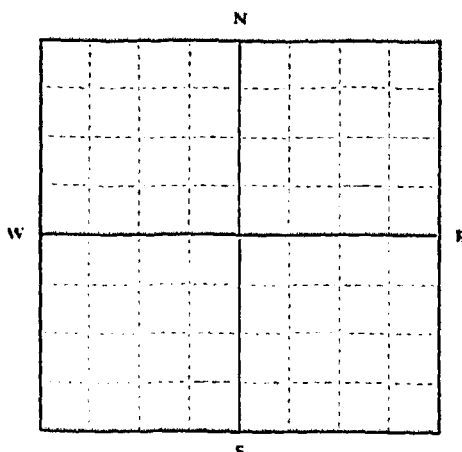
of ART 1 SO
(Address)

GT FALLS, MONT.
(Town)

County of CHANDLER

State of MONTANA

have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



6 W. 1/4 Sec. 25, T. 20 N. R. 3 E

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 HOLD USE - DOMESTIC

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
MARCH 1959

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 16 GPM

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

None

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Elec. Pump - location approx 300' SE of River Rd. Sec. 25, T. 20 N. R. 3 E. 15' north of drive way 15' inside property line of property now owned by R.J. MICHELOTTI -

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater STARTED & COMPLETED IN MARCH 1959

8. The depth of water table 6 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 well drilled using 4 inch casing - well depth 44 ft and cased with 2 1/2 inch pipe

10. The estimated amount of groundwater withdrawn each year unk - family of two

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

BOOK 242 PAGES 205, 206, 207 & 208

Signature of Owner

Date

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.

27927

3939

STATE OF MONTANA, Jan.
County of Cascade.

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

10 1968

9:45

o'clock P.M.

LENNON

County Clerk and Recorder.

By

J. J. Schinner

Deputy.

File No.

T. 20 N. R. 3 E

DUPLICATE

County Cascade

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 29 1963

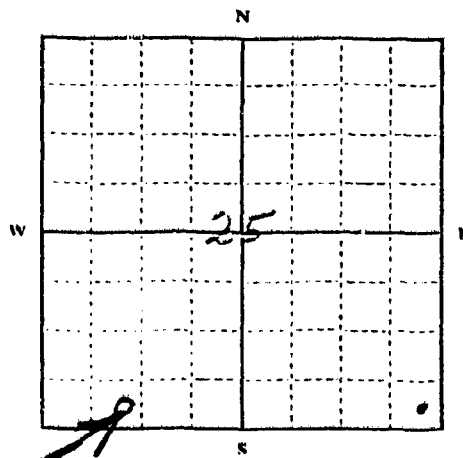
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Walter M. Stafford, of 4409-7th Ave. No. 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:



S. 20 N. Sec. 7.5 T. 20 N. R. 3 E

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 irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1929 - Continuously

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 5 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
1/2 acre - Farm
WALTER M. STAFFORD

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
Pumps Residence and
city building

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. 1929

8. The depth of water table. 13 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
2 - 25' deep wells

10. The estimated amount of groundwater withdrawn each year 73,000 gal

11. The log of formations encountered in the drilling of each well if available
dirt

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
None

Signature of Owner Walter M. Stafford

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.

13022

3757

STATE OF MONTANA, } ss.
County of Cascade.

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

at 1:06 o'clock P.M.

J. L. LENNON

County Clerk and Recorder.

By

E. L. Schmitt

Deputy.

File No.

T. 20 N. R. 3 E

DUPLICATE

County *Cascade*

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 17 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

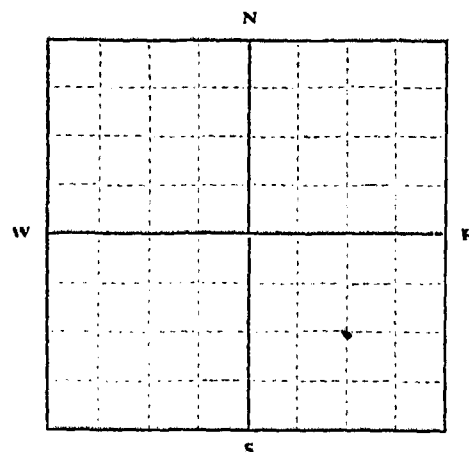
STATE ENGINEER

Matt & Thelma Thares
(Name of Appropriator)

of *Rt. 1, So. Great Falls*
(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:



S.W. 1/4 SE. Sec 25, T. 20 N. R. 3 E.

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 & lawn*
3. Date or approximate date of earliest beneficial use; and how continuous the use has been *Aug. 1, 1960 continuously since*
4. The amount of groundwater claimed (in miner's inches or gallons per minute) *1.5 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
*1 acre lawn & shrubs around house
Matt & Thelma Thares*
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal *jet pump*
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater *May 22, 1960 completed May 27, 1960*
8. The depth of water table *static depth 3 feet from top of well*
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 *Black iron 6 7/8" O.D. casing
87' depth*
10. The estimated amount of groundwater withdrawn each year *3,000,000*
11. The log of formations encountered in the drilling of each well if available *0 to 3 ft loam
3 to 18 ft sandy silt
86 to 87 ft gravel
18 ft to 86 ft silt*
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

*Matt Thares*Date *12-13-63*

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.

7566

3490

STATE OF MONTANA, } ss.
County of Cascade.

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

DEC 13 1963

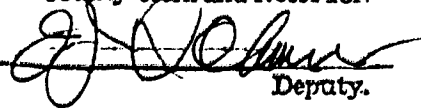
Date

at 11:30 o'clock 9 M.

J. L. LENNON

County Clerk and Recorder.

By



Deputy.

Deputy
County Clerk and Recorder
J. E. FENNION
CLOCK
EXHIBIT A

A tract of land situated in Cascade County, Montana, described as follows, to-wit:

Beginning at the Southeast corner of Sec. 25, in Twp. 20 N., Rg. 3 East of the Montana Meridian, thence running West 80 rods, thence North 10 rods, thence East 80 rods, thence South 10 rods to the place of beginning, containing 5 acres; likewise

A tract of land described as follows, to-wit: Beginning at a point 10 rods due North of the Southeast corner of the SE₄SE₄, Sec. 25, Twp. 20 N., Rg. 3 East; thence due West 80 rods, thence due North 10 rods, thence due East 80 rods, thence due South 10 rods to the place of beginning, Sec. 25, Twp. 20 N., Rg. 3 East, Montana Meridian, containing 5 acres.

#3414

STATE OF MONTANA, } ss.
County of Cascade.

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

NOV 7 - 1968

at 12:00 ^{Date} o'clock P.M.

J. L. LENNON

County Clerk and Recorder.

By

B. H. H. H.

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 W. and/or Corilva P. Thomas

Address St. 1 South
Front Falls, Montana

Date well started 10-6-1972

completed 10-13-1972

Type of well Drilled

(Dug, driven, bored or drilled)

Equipment used Churn Drill

(Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

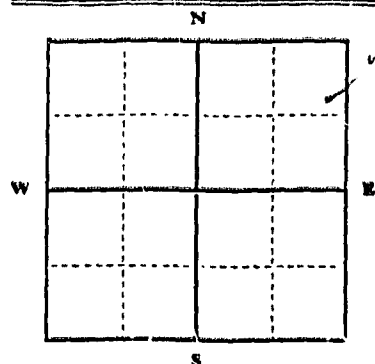
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*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 500,000 gallons

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
8"	7" 20	0	70	Not perforated		
6-5/8"	Not Cased					



1/4 Sec. 26
T. 20 N. R. 3 E. S. 3 W.

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

Driller's Signature [Signature]

Driller's Address 2112-7th Ave. South

Front Falls, Montana LICENSE NO. 135

County 26

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	Gravel fill
3	15	Red shale
15	18	Hard red & gray rock
18	26	Black shale
26	35	Red rock
35	47	Brown & yellow rock
47	84	Gray shale
84	103	Gray limy shale
103	107	Unconsolidated shale
107	122	Gray sandy shale
122	125	Yellow & gray lime water at 125 ft. G.P.
125	133	Sandstone hard
133	145	Gray hard sandstone
145	148	Gray sandy shale water 148 ft. G.P.
148	165	Black & gray shale

165 Show exact depth of bottom

51,967

5437

STATE OF MONTANA, } ss.
County of Cascade.

I hereby certify that the within in-
strument was filed in this office on
NOV 17 1972

at 4:35 o'clock P M

J. L. LEMMON

County Clerk and Recorder

R. B. Bolena

Deputy

File No.

T. 20N R. 3E

DUPLICATE

County... Cascade27

LOG

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 Vern E. and/orOwner Grace M. Hendershott Address Great Falls, Mont.Driller Pat Byrne Address Great Falls, Mont.

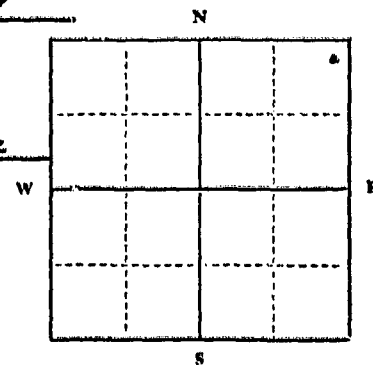
Date of Notice of appropriation of groundwater.....

Date well started 8-26-1963 Date completed 9-4-1963Type 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)
8"	6-5/8"	0	146	torch	110	113
				Also	at 138	

↑ seep
↓

Static Water Level for non-flowing well 75 feet.

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

Pumping Water Level..... 138 feet
at..... 3 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested..... BailerLength of Test..... 6 hours

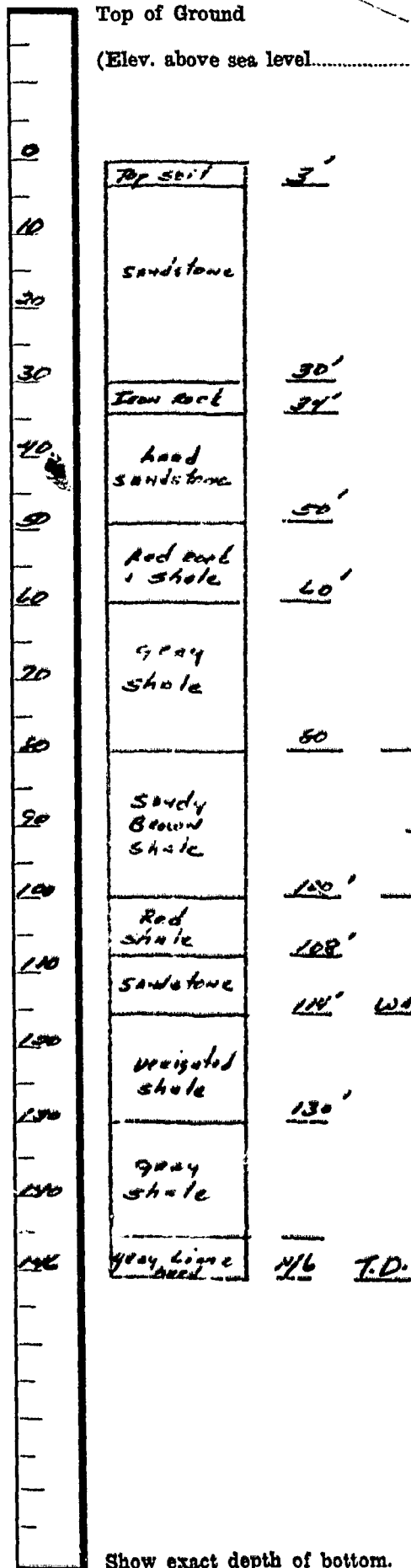
Remarks: (Gravel packing, cementing, packers, type of shutoff).....

(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).

Top of Ground

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



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.

Driller's License Number 135Driller's Signature Pat Byrne44,601

5139

STATE OF MONTANA, } ss.
County of Cascade.

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

SEP 16 1968

Date

at 3:00 o'clock P.M

J. L. LENNON

County Clerk and Recorder.

By J. E. Bateman
Deputy.

File No.

T. 20N R. 33E

DUPLICATE

County Cascade

27

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

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, as amended)

Sammuel Dachs M.D. or

Owner: Mariel W. Dachs Address: St. Falls, Mont.

Driller: Pat Byrne Address: St. Falls, Mont.

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

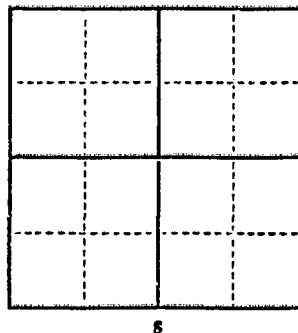
Date well started: 9-27-1968 Date completed: 10-31-1968

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.

0 Red shale & rock
10 Hard sand rock
35 Gray shale
47 Hard sandstone
51 Gray shale
64 Very hard chert
78 Unregated shale
95 Hard sandstone (sharp)
111 Red shale
127 sandstone
135 black sandy shale (hard)
140 gray sandy lime
141 Red shale (soft)
176 sandstone water 170-173
200 Unregated shale
220 Gray lime
235 gray sandstone (hard sharp)
240 Unregated shale (soft)
258 Hard gray sand
270 Gray sandy shale (Not so hard)
285 Hard sandstone (sharp) (sharp 300-355)
300 Gray limy shale (fine)
321 Gray sandstone
336 Black sandstone (sharp)
340 Black sandstone
345 (Black Red White) Kibby
water

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
8"	5 1/2"	0	340	NOT PERFORATED		
6-5/8"	5"	340	405	hole drilled from 230 to 340		
5"	not cased	340	405			

Static Water Level for non-flowing well
150 feet.

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

Pumping Water Level: 240 feet
at 15 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested: Bailor

Length of Test: 4 hours

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

Bad water was encountered at 170-Casing was set at 340' and cemented with 3 sacks or back to 300' behind pipe.

(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).

Doc. No. 5407

Filed for record

this 14 day of Sept

A.D. 1972 at 10:00

JULIA A. H.

NE 1/4 Sec 27 T. 20N R. 33E
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

back to 300' behind pipe.

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

51,412

5404

STATE OF MONTANA, } ss.
County of Cascade.

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

SEP 14 1972

Date

at 10:00 o'clock 17

J. L. LENNON

County Clerk and Recorder

By RE Belman 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 **JCHN D. BUCHANAN**

Address **BOX 2928**

Great Falls, Montana

Date well started **Nov. 6, 1971**

completed **Feb. 15, 1972**

For Administrator's Use	
File	5459
	MARCH 5, 1973
GW 1	3:25 p.m.

Type of well **Drilled by rotary**

(Dug, driven, bored or drilled)

Equipment used **Rotary rig**

(Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☒ Stock ☐ Irrigation ☐

Industrial ☐ Drainage ☐ Other ☐ Garden/Lawn ☐

*Describe

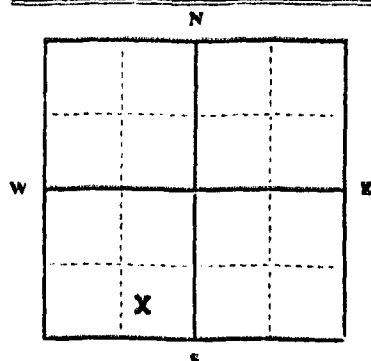
USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block

and Addition). **To be used for Western Estates**

Subdivision, Cascade County, Montana

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	6"x4" 4"	0000'	200'	20' of holes	680'	700'



Static water level **230** ft.*
Pumping water level **500** ft.*
at **25** gallons per minute,
measured **60** minutes after pumping
began.
*Measured from ground level.
Well developed by **pumping**
for **700** hours.
Power **submersible** Pump **5** HP
Remarks: (Gravel packing, cementing,
packers, type of shutoff)

SE 1/4 SW 1/4 Sec. 28

T. 20 N. R. 3 E

Cascade County, Montana

Also known as Western

Estates, Cascade County

Montana

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

Driller's Signature

Darryl Mendenhall

Driller's Address

4020 3rd Ave So.

Great Falls Mt.

LICENSE NO. **199**

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	4	top soil
4	26	sandstone
26	42	fractured sand @line
42	68	hard sandstone
68	80	blue clay
80	82	hard sandstone
82	86	black sand
86	105	green slate
105	195	blue shale
195	202	brown shale
202	326	red shale
326	360	green shale
360	365	red and green shale
365	375	light sand
375	410	green shale
410	430	red shale
430	435	green shale
435	455	blue shale
455	462	dolomite
462	480	gray limestone
480	497	blue shale
497	505	iron pyrite
505	553	blue shale (lite)
553	570	gray-lime
570	628	hard
628	690	swift
690	705	hard
705	755	Madison--lime

755

Show exact depth of bottom

52,552

5459

STATE OF MONTANA, } ss.
County of Cascade.

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

MAR 5 1973

at 3:25 o'clock P.

J. L. FENNISON

County Clerk and Recorder

By J. S. Wilson
Deputy.

52,609

5447

STATE OF MONTANA, } ss.
County of Cascade.

I hereby certify that the within in-
strument was filed in this office on
DEC 22 1972

Date
at 12:02 o'clock P.M.

J. L. LENNON

County Clerk and Recorder.

By

R. E. Falema

Deputy.

County CASCADE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

Developed After January 1, 1962

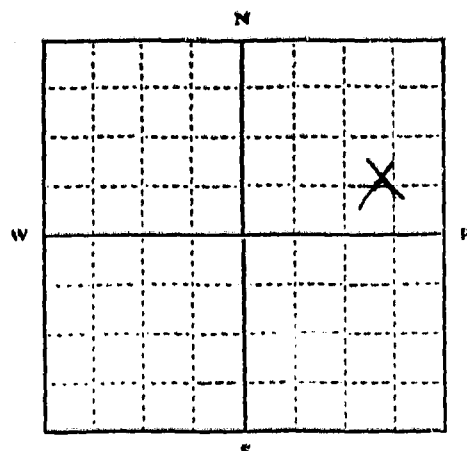
(Under Chapter 237, Montana Session Laws, 1961, as amended)

This form to be prepared by contractor (if any), otherwise by the owner.

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

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

For Administrator's Use
File <u>5353, April 10, 1972</u>
<u>9:45 A.M.</u>
GW 1



SE
1/4 NE 1/4 Sec. 28
T. 20 N. N R. 3 E

INDICATE POINT OF APPROPRIATION
AND PLACE OF USE, IF POSSIBLE.
Elevation of spring, if known or esti-
mated

Owner CLARA F. FERGUSON
Address Box 418 GREAT FALLS
Contractor (if any) NONE
Address of Contractor NONE
Date Started Not APP. Date Completed Not APP.

1. Describe means of obtaining groundwater (as by sub-irrigation,
developed spring, drains, etc.)

FLOWING SPRINGS

2. Means of withdrawing water (gravity, pump, canal, etc.)

GRAVITY

3. Depth of water table

SURFACE

4. Use of the water STOCK WATERING AND
OR DOMESTIC HOUSEHOLD USE

5. Amount of groundwater claimed (in miner's inches or gallons
per minute)

SIX GALLONS PER
MINUTE

6. If used for irrigation, give number of acres and description
of land

NONE

7. Estimate amount of water used each year

8. Months of year spring flows

Signature of Owner Clara F. Ferguson

Date JULY 29, 1971

50, 207

5353

Engineering Bureau
Groundwater Section
Sam W. Mitchell Building
Helena, Montana 59601

As the Administrator of the Groundwater Code for the State of Montana, please take note of the following special instructions, in order to properly protect your groundwater right.

Special Instructions:

Please provide, as indicated in red on the enclosed form, the dates the groundwater development was started and completed; the method or means used to develop the groundwater; estimated amount of water used each year; and number of months the spring flows.

Thank you.

NOTE: The springs should be developed at their source-if not, they may be considered surface water, if used further downstream.

There are natural springs flowing from this property at no time has the water flowed from this property and a trace property or into any other stream.

STATE OF MONTANA, } ss.
County of Cascade.

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

at 9:45 APR 10 1972 A M

By R. B. Bateman Deputy.

Location Great Falls, Mont. 59401
Doc. No. 5353 R. 3E Sec. 28

STATE OF MONTANA
County of
I hereby certify
instrument
at
By

Great Falls, 59401
Section 28
Doc. No. 5353

Building
Montana 59601

As the Administrator of the Groundwater Code for the State of Montana, please take note of the following special instructions, in order to properly protect your groundwater right.

Special Instructions:

Please provide, as indicated in red on the enclosed form, the dates the groundwater development was started and completed; the method or means used to develop the groundwater; estimated amount of water used each year; and number of months the spring flows.

Thank you.

NOTE: The springs should be developed at their source-if not, they may be considered surface water, if used further downstream.

These are natural springs flowing from hill side but at no time has the water flowed from this property on to any other property or into any other stream. These springs have been used for stock watering purposes over

Date Started _____ Date Completed _____

1. Describe means of obtaining groundwater (as by sub-irrigation, developed spring, drains, etc.) _____

Flowing Springs
How developed? - No development - natural-flowing springs

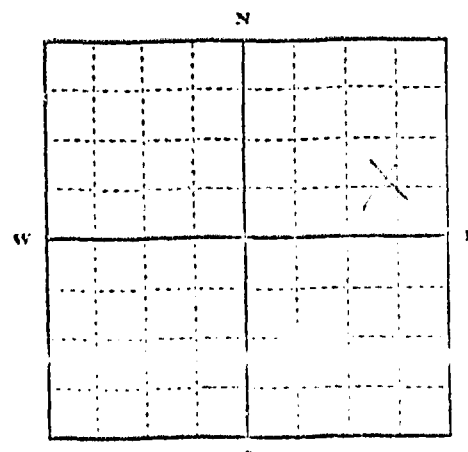
2. Means of withdrawing water (gravity, pump, canal, etc.) _____

3. Depth of water table _____ Surface

4. Use of the water Stock watering and/or Domestic Household use

5. Amount of groundwater claimed (in miner's inches or gallons per minute) Six Gallons per minute

6. If used for irrigation, give number of acres and description of land NONE



SE
T. 20N R. 3E Sec. 28

INDICATE POINT OF APPROPRIATION AND PLACE OF USE, IF POSSIBLE.

Elevation of spring, if known or estimated 3500 Above

SEA LEVEL

7. Estimate amount of water used each year ALL WATER USED WHEN GRASS IS ADEQUATE FOR PASTURE.
8. Months of year spring flows Constant flow - 12 months

Signature of Owner _____
Date _____

ASCHADE

MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA BOARD OF WATER CONTROL

NOTICE OF APPROPRIATION OF GROUNDWATER

Developed after January 1, 1963

(Under Chapter 227, Montana Statutes, 1961, as amended)

This form to be prepared by contractor (if any), otherwise by the owner.

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

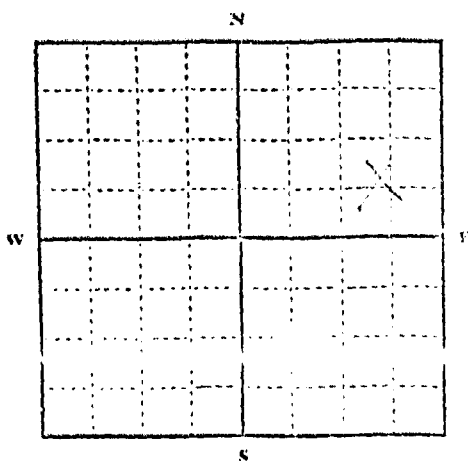
Please answer all questions. If not applicable, so state, otherwise the form may be returned.

For Administrator's Use

File 5553, April 13, 1968

9:45 AM

GW 1



SE

1/4 NE 1/4 Sec. 28

T. 29 N R. 3 E

INDICATE POINT OF APPROPRIATION
AND PLACE OF USE, IF POSSIBLE.

Elevation of spring, if known or esti-

mated 3500 Above

SEA LEVEL

Owner CLASP F. FERGUSON

Address Box 418 GREAT FALLS

Contractor (if any) NONE

Address of Contractor NONE

Date Started Not App? Date Completed Not App

1. Describe means of obtaining groundwater (as by sub-irrigation,
developed spring, drains, etc.)

Flowing Springs
How developed? - No development
natural - flowing springs

2. Means of withdrawing water (gravity, pump, canal, etc.)

Gravity

3. Depth of water table Surface

4. Use of the water Stock watering and/or
Domestic Household use

5. Amount of groundwater claimed (in miner's inches or gallons
per minute) Six Gallons per
minute

6. If used for irrigation, give number of acres and description
of land NONE

7. Estimate amount of water used each year ALL WATER

USED WHEN GRASS IS ADEQUATE FOR
PASTURE.

8. Months of year spring flows Constant Flow -
12 months

Signature of Owner

Date

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.

Harry C. and/or Margaret J. Keith

Owner

Address

Great Falls, Montana

Date well started 1-14-1972

completed 1-17-1972

Type of well Drilled

(Dug, driven, bored or drilled)

Equipment used Churn drill

(Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☒ Irrigation ☒

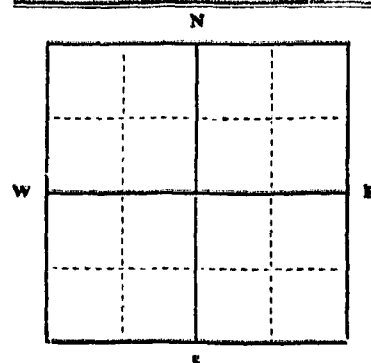
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*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 200,000

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6-5/8"	5 1/2"	0	83	Porch	70	71



1/4 Sec. 28
T. 20. N. R. 3. 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 2118 7th Ave So.

Gr. Falls, Mont.

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)		
From (Feet)	To (Feet)	
0	4	Top soil
4	30	Yellow sandstone
30	65	Brown broken sandstone
65	70	Gray sandy shale
70	71	Yellow sandstone water
71	83	Hard gray shale

83 Show exact depth of bottom

49,883

5339

STATE OF MONTANA, }
County of Cascade }

I hereby certify that the within for
stratification of the office of

FEB 14 1972

At 10:30 o'clock ☒ AM

J. E. BROWN

County Clerk and Ex-Officio

By R. E. Balam

Deputy

File No.

T. R. 28

DUPLICATE

MONTANA WATER RESOURCES BOARD

LOG

RECEIVED

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARDCounty Cascade

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, as amended)

0 to 2 ft Loam

2-4

Sand Rock

Owner Wm. Pfeiffer Address 1525-7th Ave. N.W.Driller E. D. Rafferty Address 927-10th Ave. S.W.

4-14

Sandy yellow
Shale

Date of Notice of appropriation of groundwater

14-20

Sand Rock

Date well started May 14-69 Date completed May 19-69Type of well Drilled Equipment used Churn drill
(Dug, driven, bored or drilled) (Churn drill, rotary or other)

20-45

yellow shale

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.

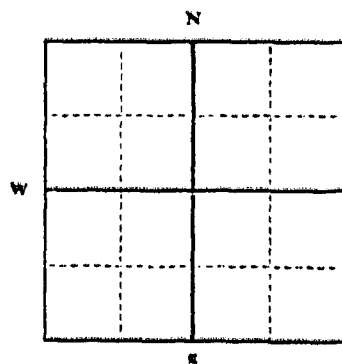
45-49

yellow sand
Rock

49-68

Grey sand
Rock

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6 1/4"	5 1/2" o.d. 17 lb. per ft.	0	68	Slot #4 3/4 x 10"	62	65

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

Shut-in Pressure for Flowing Well

Pumping Water Level 43 feetat 50 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested BailerLength of Test One hr.

Remarks: (Gravel packing, cementing, pack-

ers, type of shutoff) Cone catcher

Indicate location of well and place of use, if possible. Each small square represents 40 acres.

Section 28, T. 20 N., R. 3 E., S. 4

(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).

7 68 ft.
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.

Driller's License # 28
Driller's License NumberE. D. Rafferty
Driller's Signature45,273

5169

STATE OF MONTANA, } ss.
County of Cascade.

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

MAY 23 1969

Date

at 2:45 o'clock P. M.

J. L. LENNON

County Clerk and Recorder

J. E. Bateman

Deputy

[illegible]

5346

STATE OF MONTANA, } ss.
County of Cascade.

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

MAR 16 1972

at 10:40 o'clock A M.

J. L. LENNON

County Clerk and Recorder

By J. A. Wilson
Deputy

SE 1/4 NE Sec 28-20N-3E

3

Approved Stock Form—State Publishing Co., Helena, Montana—41337

File No.

T. R.

DUPLICATE

County Cascade

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 9 1963

STATE ENGINEER

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater Sept 19-1918
Owner Clarence Schrader Address R. 1, west Mt Falls

Contractor (if any)

Address of Contractor

Date Started..... Date Completed.....

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable.....

Spring comes out of hill
Runs about three hundred feet
per day

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use.....

used about six months in
year for stock

Signature of Owner Clarence Schrader

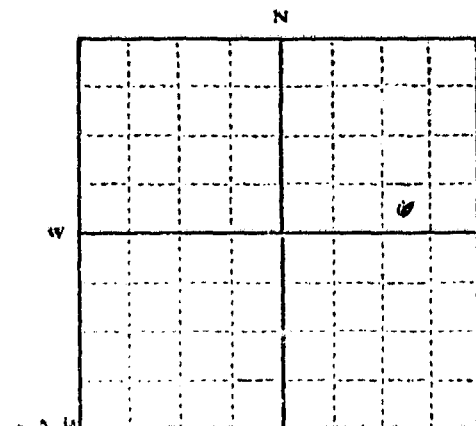
Date Dec 27-1963

This form to be prepared by contractor (if any), otherwise by the owner.

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



R22
SE 1/4 NE Sec 28 T. 20 N. R. 3 E.
Indicate point of appropriation
and place of use, if possible.

27781

3792

STATE OF MONTANA, } ss.
County of Cascade.

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

DEC 27 '96

Date

at 10:00 o'clock A.M.

J. E. LUTHER

County Clerk and Recorder.

By

[Signature]

Deputy.

File No.

T. R.

DUPLICATE

County Cascade

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 8 1964

STATE ENGINEER

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater Sept 19-1918

Owner Clare Schradar Address 121 West St Falls

Contractor (if any) None

Address of Contractor

Date Started..... Date Completed.....

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable.....

Spring comes out of Hill
Runs about two hundred gal
per Day

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use.....

Spring used about six months
in year

Signature of Owner Clare Schradar

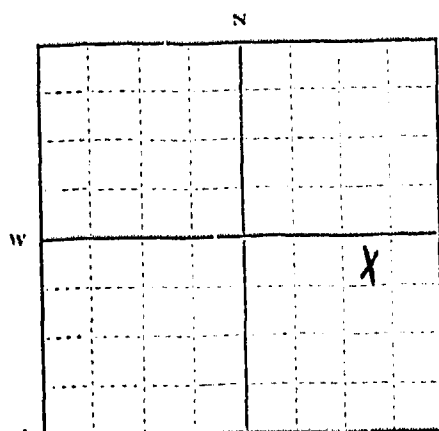
Dated Sept 27-1963

This form to be prepared by contractor (if any), otherwise by the owner.

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



NE 1/4 SE Sec 28 T20 N R3 E

Indicate point of appropriation and place of use, if possible.

27782

3793

STATE OF MONTANA, } ss.
County of Cascade.

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

DEC 27 1963

Date

at 10:00 o'clock A.M.

J. E. LENNON

County Clerk and Recorder

By J. J. Churno

STATE OF MONTANA, } ss.
County of Cascade.

I hereby certify that the within in-
strument was filed in this office on
MAY 25 1972

Date

at 10:00 o'clock A M

J. L. BENNON

County Clerk and Recorder.

By



Deputy.

County Cherokee

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD
NOTICE OF APPROPRIATION OF GROUNDWATER
(Under Chapter 237, Montana Session Laws, 1961, as amended)

After filing a notice of appropriation, in order to acquire a right based thereon, the person must, within ninety (90) days, commence actual excavation and diligently prosecute construction of a well and, upon its completion, file a notice of completion with the County Clerk of the county in which the appropriation is located.

Three copies of this notice are to be filed 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 may be returned.

1. I, Glenn S. Schuler, of Adams W. Va.
(Name of Appropriator) (Address) (Town)

County of Silver Lake, 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 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 1.5 gpm
1.5 gpm

The estimated amount of groundwater to be used annually

4. The annual period (inclusive dates) of intended use

5. The probable or intended date of first beneficial use _____

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

7. The location, type, size and depth of well or wells contemplated

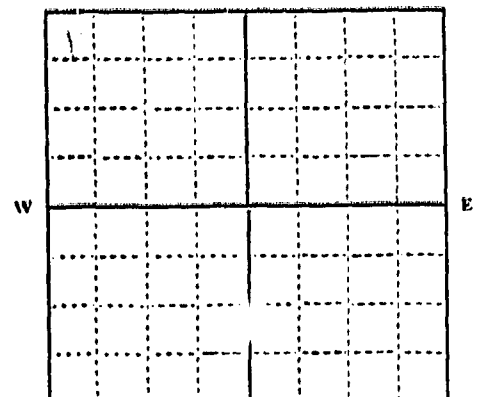
8. The probable or estimated depth of the water-table or artesian aquifer 2 feet

9. The name, address, and license number of the driller engaged John J. Smith

10. Give such other similar information as may be useful in carrying out the policy of this act

For Administrator's Use

File 5342, February 22, 1922
1:45 p.m.



1/4 1/4 Sec.

T..... N R..... E
S W

LOCATE WELL OR OTHER MEANS OF
DEVELOPMENT AS ACCURATELY AS
POSSIBLE ON THE PLAT.

Signature of Appropriator _____ Date _____

*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.

1871

1872

1873

1874

1875

Department of Natural Resources and Conservation
Water Resources Division
Engineering Bureau
Groundwater Section
Sam W. Mitchell Building
Helena, Montana 59601

Owner Clarence Schrader
Address R.F.D. #1 - Gt. Falls, MT
Location T. 20N R. 3E Sec. 28
Doc. No. _____

As the Administrator of the Groundwater Code for the State of Montana, please take note of the following special instructions, in order to properly protect your groundwater right.

Special Instructions:

Please provide the county filing document number for the attached form.

Thank you.

FILE NUMBER 5371

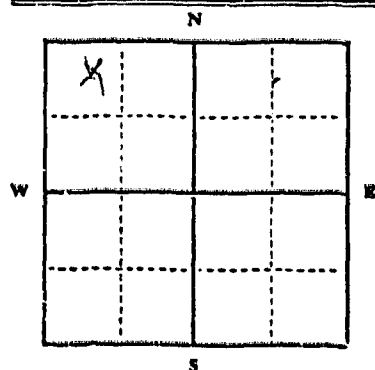
Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☒* Garden/Lawn ☐

*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)
5 in	5 in	10 ft	Rock	none		



Static water levelft.*
Pumping water levelft.*
atgallons per minute,
measuredminutes after pumping
began.

*Measured from ground level.

Well developed by
forhours.

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

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

T. Sec.
N R. E
-8 -W

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

Driller's Signature Harold Frank Mitchell

Driller's Address Sioux Falls

LICENSE NO. _____

Show exact depth of bottom

50, 739

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 John & Mary Schaefer
Address Rt. 7, D. #4
St. Falls Mont
Date well started Sept 10
completed Sept 19-1952

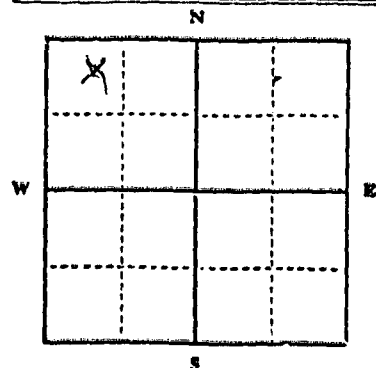
For Administrator's Use	
File	<u>May 25, 1972 10:00 a.m.</u>
GW 1	

Type of well Drilled
(Dug, driven, bored or drilled)
Equipment used Plunger Type
(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
<u>5 in</u>	<u>5 in</u>	<u>10 ft</u>	<u>Rock</u>	<u>None</u>



1/4 Sec. 1
T. 20 N. R. 3 E. S. 4

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

Driller's Signature H. M. Schaefer
Driller's Address St. Falls Mont

LICENSE NO.

County Missoula

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	1
1	2
2	3
3	4
4	5
5	6
6	7
7	8
8	9
9	10
10	11
11	12
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94	95
95	96
96	97
97	98
98	99
99	100

Show exact depth of bottom

50, 7:29

5371

Document Number?
5371

STATE OF MONTANA, } ss.
County of Cascade.

I hereby certify that the within instrument was filed in this office on
MAY 25 1912

10:00 o'clock A. M.

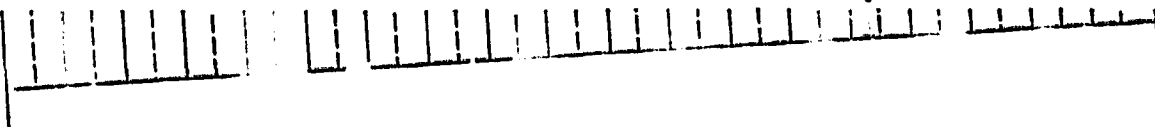
J. L. HENSON

County Clerk of said County.

y. *Albert*
Deputy

66c

bottom



File No.

T. R.

DUPLICATE

RECEIVED

County Cascade

LOG

MAR 21 1971

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARDNotice of Completion of Groundwater
Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

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

Top of Ground

(Elev. above sea level 3700)

0 to 1 ft. Loam

1-11 Sand Rock

11-24 Yellow Shale

24-30 Sand Rock

30-58 Yellow Sandy Shale

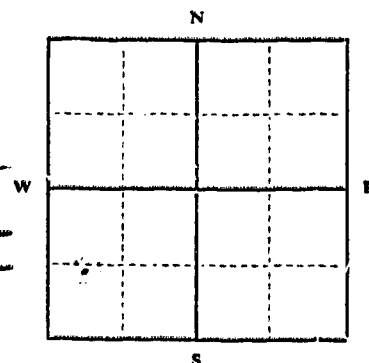
58-70 Gray Sand Rock

Owner Harry L. Severson Address 3044-9th Ave., SouthDriller E.D. Rafferty Address 927-10th Ave., S.W.Date of Notice of appropriation of groundwater March 16, 1971Date well started July 30, 1969 Date completed Aug 4, 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.

Water Filled up to
40' from top

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6 inch	5 1/2 O.D. 17 lbs per ft.	0	70	Slots	60	65

Doc. No. 5872
Filed for record
this 17 day of MARCH
A. D. 19 71 at 4:45
o'clock P. M.SW 1/4 Sec. 28 T. 20N R. 3E
Indicate location of well and
place of use, if possible. Each
small square represents 40
acres.Static Water Level for non-flowing well
40 ft. from top

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

Pumping Water Level 40' from top feetat 50 gal. per minute.

Discharge in gal. per min. of flow well

noneHow Tested BoilerLength of Test Two Hours

Remarks: (Gravel packing, cementing, pack-

ers, type of shutoff) Gravel placed
behind casing to cover perforations

(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 Addi-
tion).Domestic use, for house, garden and trees

70 ft

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.# 28
Driller's License NumberE.D. Rafferty
Driller's Signature.

48243