

County Cascade Twp. 20 N Rge. 2 E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
1	Briggs, C.L.	Well log	—	
2	Hill, B.B.	GW 3	4360	
2	Meier, Vernon W.	4	3120	
2	Schroer, Leo and Zenta, Elmer	4	4897	
2	Spencer, F.L.	4	5057	
2	" "	2	4651	
2	Wright, Brent N	4	4633?	
3	Bertsche, Wm. M.	4	3135	
3	" "	4	3136	
3	" "	4	3137	
3	Wenzlick, Russell A.	3	3330	
5	Dreding, Bob	2	5305	
5	White, Sally J. & E.D.	2	5516	
6	Burny, John	2	5500	
7	Poor, Esther M	Release	51570	
11	Swartz, Jack R.	GW 4	4298	
12	Rutgan, Joseph F.	4	3328	
13	Jarden, Harley A. and Wardene W.	2	5223	
15	Anderson, Gladys Odson	4	3882	
20	Hastings, Robert	4	3974	
25	Schilling, Harold J. & Mary	4	3354	
28	Anderson, Gladys Odson	4	3880	
28	Hastings, Weston R.	4	3976	
29	Anderson, Gladys Odson	3	3881	
29	Hastings Bros.	3	3975	
31	Palich, Harold & E. Sylvia	2	4996	
31	Palich, Harold	4	4517	
32	Galloway, Edwin C. and Betty L.	4	3852	
32	Hawthorne, Minniebell and Garden L.	2	5180	
32	Mann, Mary	4	3958	
32	Wathime, Earl Eugene	4	3597	
32	Wright, L.E.	3	4037	
34	Brown, W.W.	4	4563	
34	" "	4	4564	
34	" "	4	4565	
34	" "	4	4566	
35	Cohen, George C. & Rose P.	3	3758	
35	" " " "	3	3760	
35	Schilling, Harold J. & Mary	4	3355	
36	Schilling, James J.	2	5387	

T. 20 N R 2 E  
County Cascade

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED

WATER WELL LOG

STATE ENGINEER


Owner C.H. Briggs Address Rt. 1 West Manchester Road  
Driller E.P. Rafferty Address 927-10 Ave S.W.  
Date Started June 20-59 Date Completed June 30-59  
Location: Sec. 1 T. 20 N R. 2 E 1/4 sec.

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

Water use: Domestic  Municipal  Stock  Irrigation   
Industrial  Drainage  Other:

Casing: 6" 0 ft. to 35 ft. Type Black Iron Size Six inch  
Casing: 5" 0 ft. to 199 ft. Type " " Size five inch  
Casing: ft. to ft. Type Size

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

Type of screen or perforations Casing Driven open into ground

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

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

Pumping water level: feet at gal. per min.

How tested:

Length of test:

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

Well flowing over top at seven gals per min.



File No. ....

T. 20 R. 2E

DUPLICATE

County .....

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
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 JULY 1960

Owner R. B. Hill Address RTE-1 WEST

Contractor (if any) ED. MAPHRESS-

Address of Contractor .....

Date Started JULY 1960 Date Completed AUG 1960

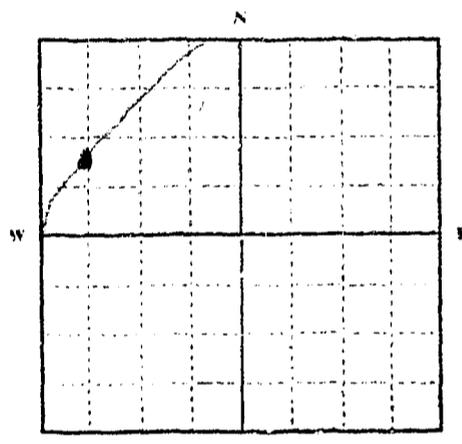
Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Spring are sub-surface dug out with back hoe pump is used on intermittent basis

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. about 10 gal per minute used on 2 hours a week at times. occasionally - or approx. 150, 500 gal a year.

Signature of Owner R. B. Hill

Date 12-31-63



NW-SW-WY RD  
1/4 Sec. 2 T. 20 R. 2E  
Indicate point of appropriation and place of use, if possible.

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.

4360

CLERK AND RECORDER  
STATE OF MISSISSIPPI  
RECEIVED FOR RECORD  
DEC 31 1863

11:46 A.M.

*A. B. [Signature]*  
CLERK

File No. ....

T. 20 N. R. 2 E

DUPLICATE

County Cascade

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED

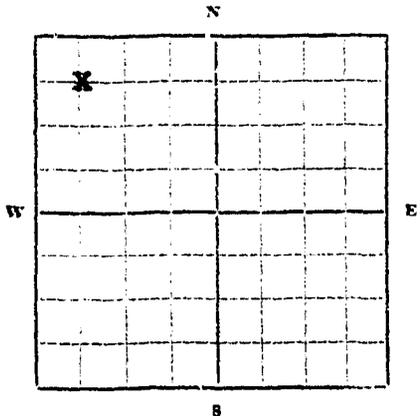
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. **VERNON W. MEIER** of **Route 1 West, Great Falls, Montana**  
(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:



~~NW 1/4~~ NW 1/4 Sec. 2 T 20 R 2 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 **stock, irrigation and household**

3. Date or approximate date of earliest beneficial use; and how continuous the use has been **Fall of 1958; use steady**

4. The amount of groundwater claimed (in miner's inches or gallons per minute) **18 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 **NW 1/4 Sec. 2, Twp. 20 N., Rge. 2 East. Vernon W. Meier**

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal **14 lbs. per sq. inch pressure**

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater **Fall of 1958, about 2 weeks to drill 200 feet depp.**

8. The depth of water table **200 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 **One 4 inch Well.**

10. The estimated amount of groundwater withdrawn each year **9,460,800**

11. The log of formations encountered in the drilling of each well if available **nothing but mud, no rock, glacial till**

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 *Vernon W. Meier*

Date **May 29, 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.

3120

STATE OF MONTANA, } ss.  
County of Cascade.

I hereby certify that the within instrument was filed in this office on  
MAY 29 1967

at 3:30 <sup>Hours</sup> o'clock P M.

J. L. LENNON  
County Clerk and Recorder.

By [Signature]  
Deputy

File No. STATE WATER CONSERVATION BOARD

Twp. R.

TRIPPLICATE

County Cascade

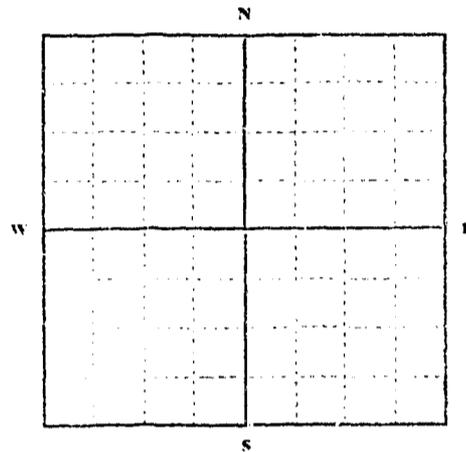
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

L. Leo Schauer and Associates, of P.O. Box 343, East 118 (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. 2 T. 14 R. 2

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, lawn and garden.
3. Date or approximate date of earliest beneficial use; and how continuous the use has been summer of 1961 and the use has been continuous.
4. The amount of groundwater claimed (in miner's inches or gallons per minute) seven (7) 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 one garden plot 150' x 70'.
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal This is a pressure well and runs continuously. Pressure pump is used for household and pressure.
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater summer of 1961.
8. The depth of water table (133 feet) one hundred thirty three 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 4 1/2 inches four inch well casing.
10. The estimated amount of groundwater withdrawn each year 1,102,400 1,102,400 gpd.
11. The log of formations encountered in the drilling of each well if available Clay and sand.
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 E. Leo Schauer
Date 9th December 1965

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.

40053

4897

STATE OF MONTANA, } ss.  
County of Cascade.

I hereby certify that the within in-  
strument was filed in this office on  
DEC 14 1965

at 450 <sup>Lot</sup> of block P.M.

J. L. JENNON  
County Clerk and Recorder.

by Richard [Signature]  
Deputy.

GW 1

MONTANA WATER RESOURCES BOARD

Approved Stock Form—State Publishing Co., Helena, Montana—46805

File No. ....

RECEIVED

T. 20E R. 3 East

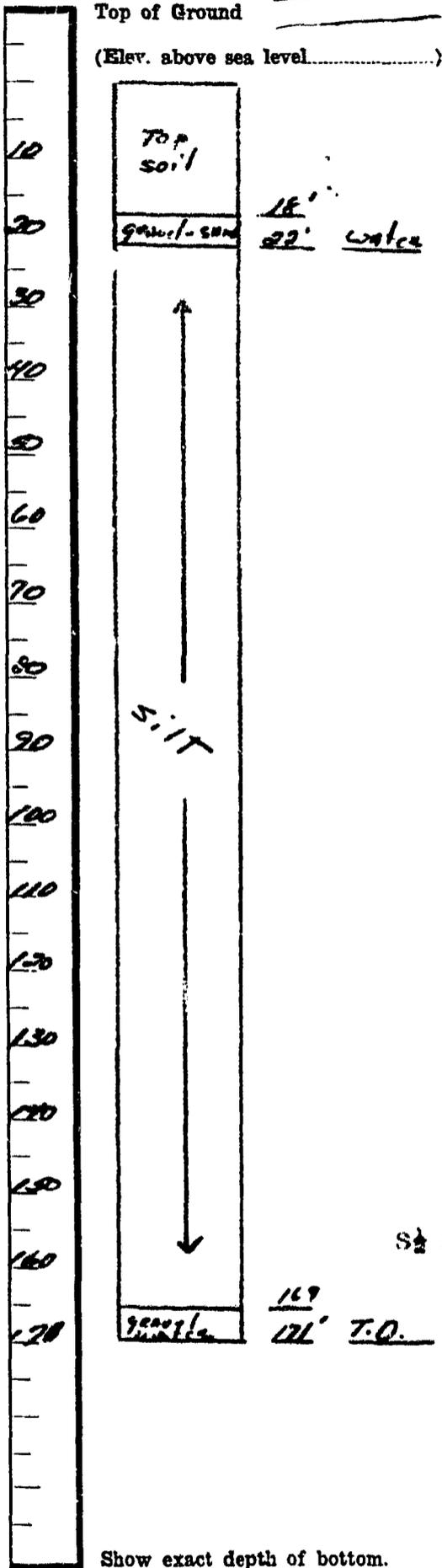
DUPLICATE

NOV 10 1967

County Cascade

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 F. L. Spencer Address Manchester, Mont.

Driller Pat Byrne Address St. Falls, Mont.

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

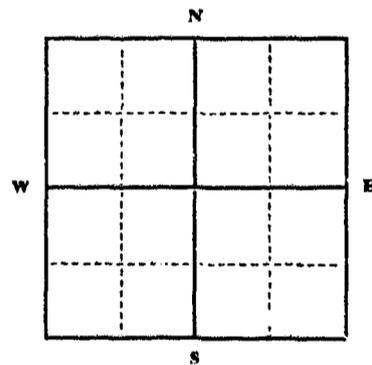
Date well started 11-5-1967 Date completed 11-13-1967

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, 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"	8-5/8"	0	41	Not Perforated		
6-5/8"	6" ID	20	130	"	"	"
6" OD	5" ID	0	171	"	"	"



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

Shut-in Pressure for Flowing Well 3#.....

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

Discharge in gal. per min. of flowing well 1.....

How Tested.....Flow.....

Length of Test.....48 Hours.....

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

S<sub>2</sub> NE 1/4 Sec. 2 T20E R. 2E

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

Pat Byrne  
Driller's Signature

42,545

5057

STATE OF MONTANA, }  
County of Cascade. }

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

NOV 17 1967

Date

8:19 o'clock P.M.

J. L. LENNON

County Clerk and Recorder

By

*R. E. Bateman*

Date

File No. \_\_\_\_\_

T. \_\_\_\_\_ R. \_\_\_\_\_

DUPLICATE

County \_\_\_\_\_

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)



Top of Ground  
(Elev. above sea level \_\_\_\_\_)  
0 to 5 ft. Top Soil  
5 to 11 ft. Sand  
11 to 18 ft. Clay  
18 to 22 ft. Sand  
22 to 145 ft. Gumbo Clay  
145 to 147 ft. Gravel  
147 to 156 ft. Shale-(Sandy)  
156 to 168 ft. Sandstone  
(Broken)  
168 to 210 ft. Blackleaf  
Sandstone

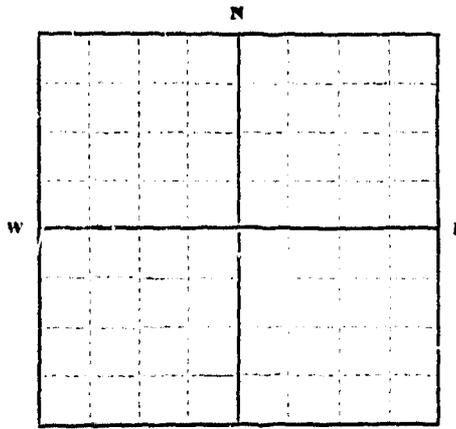
Casing Set: 194 Ft 1 1/2" O.D.  
Casing Cemented in.

Flowing Well- Flows 15 Gal.  
per minute at 5 lb. Pressure

Owner: **F. L. Spencer** Address: **Box 305, Gt. Falls, Mont.**  
Driller: **Arnold Soemichsen** Address: **2300-13th St. South  
Great Falls, Mont.**  
Date of Notice of Appropriation of Groundwater: **December 31, 1963**  
Date well started: **11/1/62** Date Completed: **11/15/62**  
Type of well: **Drilled** Equipment Used: **Rotary**  
(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)



NE 1/4 Sec. 2, T. 20N 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: **Flowing** feet.  
Shut-in Pressure for Flowing Well: **5 lb.**  
Pumping Water Level: **Flowing** feet at **15** gal. per minute.  
Discharge in gal. per min. of flowing well: **15 Gal.**  
How Tested: **Baler** Length of Test: **1 Hour**

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)

**51**  
Driller's License Number

*Arnold Soemichsen*  
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.

28636

4651

STATE OF MONTANA } ss.  
County of Cascade

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

JAN 2 - 1964

at 8:13 9

J. E. L...

County Clerk

By A.C. [Signature]  
Deputy

File No.

T20N. R2E

DUPLICATE

County Cascade

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

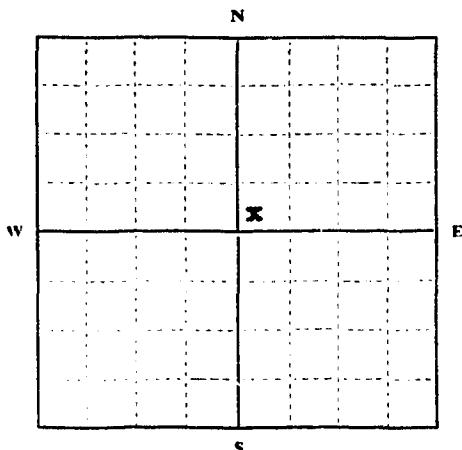


Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Brent H. Wright, of Rt. 1, Fairfield (Town)  
(Name of Appropriator) (Address)

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



NE 1/4 Sec. 2 T20N 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  
Domestic, Stock, Irr. lawn and garden

3. Date or approximate date of earliest beneficial use; and how continu-  
ous the use has been  
Aug. 13, 1949 Continuous since

4. The amount of groundwater claimed (in miner's inches or gallons  
per minute) 10 gal.

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 and garden

6. The means of withdrawing such water from the ground and the loca-  
tion of each well or other means of withdrawal  
Artesian flow and 1/2 H.P. pump (electric)

7. The date of commencement and completion of the construction of the well, wells, or other works for with-  
drawal of groundwater  
Aug. 2, 1949 to Aug. 13, 1949

8. The depth of water table 4 feet - Artesian 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  
Drilled and cased, 5 inch casing 117 feet  
deep

10. The estimated amount of groundwater withdrawn each year 300,000 to 1,000,000 gal.

11. The log of formations encountered in the drilling of each well if available  
0-5' fill loam 70-70' heavy clay 125-141' quicksand and gravel  
2-13' heavy clay 70-72' quicksand 141-145' heavy clay  
1-20' quicksand 70-125' heavy clay 145-147' 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  
Not known

Signature of Owner Brent H. Wright  
Date Dec. 19, 1965

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.

28618

4633

STATE OF MONTANA, ss.  
County of Cascade.

Know all men to whom these within in-  
strument was filed in this office on

DEC 31 1963

at \_\_\_\_\_ o'clock \_\_\_\_\_ M.

J. E. LITTON

County Clerk and Recorder.

By H. Fugitt Deputy.

File No. \_\_\_\_\_

T R \_\_\_\_\_

DUPLICATE

County \_\_\_\_\_

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

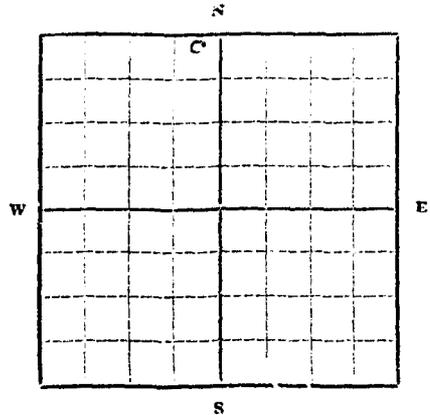
**Declaration of Vested Groundwater Rights**  
(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. **WM. H. BERTSCHE, JR.** of **1917 4th 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:



**NE 1/4 NW<sup>4</sup> Sec. 3 T 20N 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  
**TO WATER STOCK**

3. Date or approximate date of earliest beneficial use; and how continuous the use has been **OCT. 10, 1959 and continuous flow into stock tank.**

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal  
**Natural flow of water through perforated pipe into stock tank.**

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater **Oct. 1, 1959 - finished October 10, 1959**

8. The depth of water table

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 **Located seam of water about 10 feet in side of hill. Through use of perforated pipe and gravel the water is run through a pipe to stock tank.**

10. The estimated amount of groundwater withdrawn each year **Have gate valve - 200,000 gallons.**

11. The log of formations encountered in the drilling of each well if 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 *W. H. Bertsche Jr.*

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.

3135

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 Missoula Missoula, Mont.

S. E. TERNON

County Clerk and Recorder.

By J. Johnson  
Deputy.

GW

File No. ....

T R

DUPLICATE

County

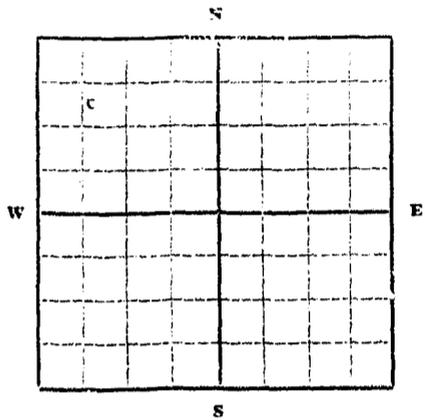
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

**Declaration of Vested Groundwater Rights**

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Wm. H. Bertsche, Jr. of 1917 4th 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:



NW 1/4 NW 4 Sec. 3 T. 20N 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  
to water stock
3. Date or approximate date of earliest beneficial use; and how continuous the use has been  
August 15, 1959 - continuous
4. The amount of groundwater claimed (in miner's inches or gallons per minute)  
3 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
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal  
5" casing with pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater  
August 3, 1959 completed August 15, 1959
8. The depth of water table  
50'
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  
5" casing and well drilled to 360' - filled with gravel back to 315'
10. The estimated amount of groundwater withdrawn each year  
20,000 gallons
11. The log of formations encountered in the drilling of each well if available  
see attached log.
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 Wm H Bertsche Jr

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.

3136

93' - 138'	Grey Shale
138' - 165'	Sandy Gray Shale
165' - 175'	Gray Shale
175' - 198'	Muddy Sand Rock
198' - 228'	Clean Sand Rock
Seep at 200'	
228' - 238'	Muddy Sand Rock
238' - 272'	Clean Sand Rock
272' - 335'	Red Gray Shale
335' - 345'	Sand Rock
345' - 360'	Gray Shale

Filled with gravel to 315'

STATE OF MONTANA, } ss.  
 County of Cascade.  
 I hereby certify that the within in-  
 strument was filed in this office on

Date 11:52 October 6 1911  
 J. E. [unclear]  
 County Clerk and Recorder.  
 by J. J. Schuman  
 Deputy.

WELL LOG

0 - 6'	Bandy Loam
6' - 28'	Dark Conglomerate
28' - 93'	Sand Rock
93' - 138'	Gray Shale
138' - 165'	Sandy Gray Shale
165' - 175'	Gray Shale
175' - 198'	Muddy Sand Rock
198' - 228'	Clean Sand Rock

Seep at 200'

228' - 238'	Muddy Sand Rock
238' - 272'	Clean Sand Rock
272' - 335'	3 G.P.M. at 243' Red Gray Shale
335' - 345'	Sand Rock
345' - 360'	Gray Shale

Filled with gravel to 315'

GV

File No.

T. R.

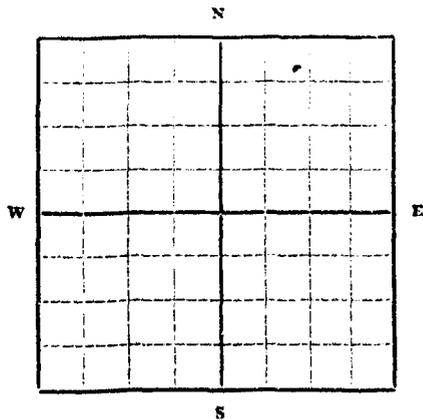
DUPLICATE

County

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

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

1. **WM. H. BERTSCHE, JR.** of **1917 4th Ave. No. Great Falls, Montana**  
(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:



**4**  
NW 1/4 NE Sec. 3 T20N 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 **to irrigate land and water stock**
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been **1943 - continuous**
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) **35 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 **to irrigate 5 acres of garden land owned by Wm. H. Bertsche, Jr.**
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal **Natural flow of water**

- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater **Not known**
- 8. The depth of water table **Flowing 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 **4" pipe down 195'**
- 10. The estimated amount of groundwater withdrawn each year **1,500,000 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 *Wm. H. Bertsche, Jr.*  
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.

2137

STATE OF MONTANA, ) ss.  
County of Cascade. )

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

JUN 25

at 11:53 o'clock AM

J. E. LANNON  
County Clerk and Recorder.

By J. J. Johnson  
Deputy.

File No. ....

3

T. 20 R. 2  
County: .....

DUPLICATE

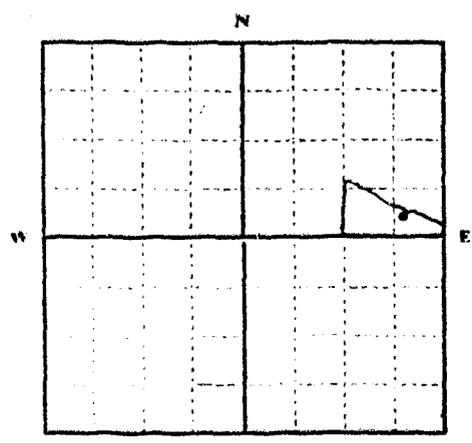
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JUL 5 - 1963

STATE ENGINEER  
**Notice of Completion of Groundwater Appropriation Without Well**

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater Nov 1959  
Owner Russell A. Denzick Address Great Falls, Montana  
Contractor (if any) NOT APPLICABLE  
Address of Contractor NOT APPLICABLE  
Date Started..... Date Completed.....



SE 1/4 NE 1/4 Sec. 3 T20 R2E  
Indicate point of appropriation and place of use, if possible.

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

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. 100 GALLONS A DAY, QUANTITY IS ESTIMATED  
USE IS APPROXIMATELY SAME EACH DAY.

Signature of Owner Russell A. Denzick  
Date 1 Jul 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.

Faint, illegible text, possibly a stamp or header.

#3330

STATE OF MONTANA, } ss  
County of Cascade.

Subscribed and sworn to before me that the within is  
correctly certified in this office on

JUL 1 - 1968

9:00 a.m. 9

CLERK OF DISTRICT COURT

*B. Gies*

Deputy



5505

RECORDED  
INDEXED  
JUN 19 1973  
CLERK OF DISTRICT COURT  
CASCADIA COUNTY, MONTANA

STATE OF MONTANA  
County of Cascade.

I hereby certify that the within in-  
strument was filed in this office on  
**JUN 19 1973**

at 11:40 AM

**J. L. LEMMON**  
County Clerk and Ex-Officio

*J. L. Wilson*  
Deputy



5516

STATE OF MONTANA, }  
County of Cascade.

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

JUN 21 1973

Date

10:55 o'clock AM

**J. L. LENNON**

County Clerk and Recorder.

J. S. Wilson

Deputy

200



5500

STATE OF MONTANA, vs.  
County of Cascade.

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

JUN 12 1973

at 8:50 o'clock AM

J. E. LANNON

County Clerk and Recorder.

By

J. S. Wilson  
Deputy.



*Edley M. ...*

*Heenan A*

# MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

FORREST H. ANDERSON GOVERNOR  
GARY WICKS DIRECTOR

MEMBERS OF THE BOARD  
JOSEPH W. SABOL  
DEAN HANSON  
RILEY OSTBY  
HERBERT HUENNEKENS

249.7411  
325 FULLER AVENUE  
HELENA, MONTANA 59601

P. O. Box 217

October 10, 1972

Water Conservation Board  
Water Resources Engineer  
Sam W. Mitchell Building  
Helena, Montana 59601

Dear Sir:

Enclosed you will find a copy of a release agreement for the utilization of a fresh water well.

Operator                    Union Texas Petroleum  
Lease Name                Poor  
Well No.                    1, Sec. 3, Twp. 22 N., Rge. 2 E.

Yours very truly,  
*Donald E. Chisholm*  
Donald E. Chisholm  
Acting Administrator

DEC/ml

cc: Mr. W. Lond  
Bureau of Mines and Geology  
Butte, Montana 59701

RECEIVED  
OCT 11 1972  
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

PRINTED ON 100% RECLAIMED ECOLOGY BOND

51,570

Board of Oil and Gas Conservation

*Judson A. ...*  
Petroleum Engineer, Geologist, or Administrator

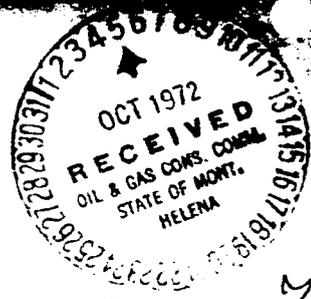
Dated: Oct 3, 1972, 19



51,570

BOARD OF OIL AND GAS CONSERVATION  
OF THE STATE OF MONTANA

RELEASE AGREEMENT



KNOW ALL MEN BY THESE PRESENTS, that I, ESTHER M. POOR

of the County of Cascade

in the State of Montana, am the owner of the hereinafter described land upon which a well for oil or gas was drilled, to-wit:

Operator Union Texas Petroleum

Lease Name None

Well No. 1 Sec. 7 Twp. 22N, Rge. 2E

The well is located 661 feet N of the South line and 561 feet E of the West line.

That, in accordance with Regulation 233.6, Order No. 1-1,

November 30, 1953, I do hereby notify the Board of Oil and Gas

Conservation of the State of Montana of my desire to utilize said well

as a fresh water well; and, that if such utilization is approved, I do

hereby release and discharge the operator hereinabove named from any

further work or responsibility in relation to the plugging of said well.

Water Use: Domestic  Municipal  Stock  Other

Industrial  Drainage  Irrigation

Producing Depth 1166 - 1193 Producing Formation Sunburst

Yield of well \_\_\_\_\_ Annual Withdrawal \_\_\_\_\_

WITNESS my hand and seal this 6 day of Sept, 1972.

Esther M. Poor (S.S.)  
Landowner  
Address 4192 5th Ave So.  
Helena, Montana

IN THE PRESENCE OF:

Joseph A. Baker Notary Public Address Power 27. My commission expires 5-7-75  
Ronald White Address Power, Mont

APPROVED BY:

Board of Oil and Gas Conservation

Judson A. Smith  
Petroleum Engineer, Geologist, or Administrator

Dated: Oct 3, 1972



File No.

T. 20N R. 2E

DUPLICATE

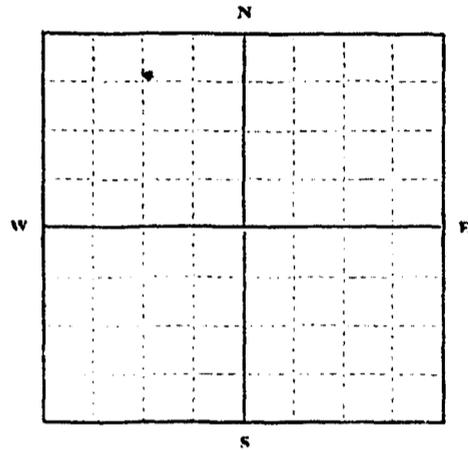
County Cascade

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. *Jack R. Smith*  
(Name of Appropriator) , of *2426 Cord Ave West 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:



1/4 Sec. 14 T. 20N 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 use & stock*

3. Date or approximate date of earliest beneficial use; and how continuous the use has been  
*July 1953*

4. The amount of groundwater claimed (in miner's inches or gallons per minute)  
*1 1/2 gals 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  
*None*

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  
*started July 1953 finished July 1953*

8. The depth of water table  
*Filled up to 45 ft. from 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  
*1 inch casing from 0 to 75 ft*

10. The estimated amount of groundwater withdrawn each year  
*72,745.0 gals per year*

11. The log of formations encountered in the drilling of each well if available  
*to 2 ft from surface  
18-25 Sand 18-25 soft 25-28 fine sand + fine gravel 28-35  
28-35 42 sandy shale 42-52 dry shale 52-64 sand rock  
66-72 fossiliferous shale 62-72 dry shale Water at 66 ft.*

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

*Andrew + Mary Swartz  
Jack R + Dolores Smith*  
Signature of Owner

Date *Dec 30 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.

28287

4298

CLERK AND RECORDER  
CASCADE COUNTY MONTANA  
I HEREBY CERTIFY THAT THE WITHIN  
INSTRUMENT WAS FILED FOR RECORD  
IN THIS OFFICE ON

NOV 3 1959  
AT 10:59 9 AM  
AND DULY RECORDED AS DOCUMENT

NO. \_\_\_\_\_  
J. L. LENNON  
CLERK AND RECORDER  
BY: *[Signature]*  
DEPUTY

File No. ....

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

DUPLICATE

County .....

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JUN 27 1963

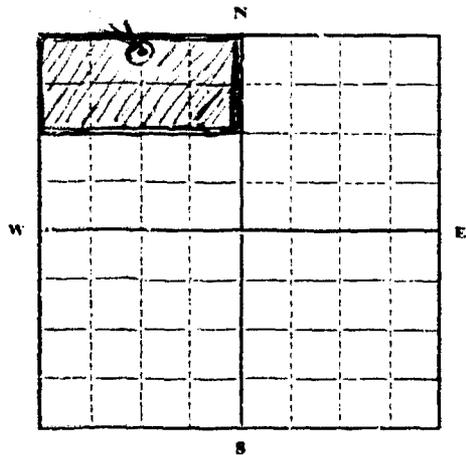
Declaration of Vested Groundwater Rights STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

1. JOSEPH E. RUTAN, of 2120 - 6<sup>th</sup> 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:



N<sup>1</sup>/<sub>2</sub> OF THE  
NW 1/4, Sec. 12, T20N, 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. <sup>FUTURE</sup> HOUSEHOLD USE,  
GARDEN WATERING, 3 CR. 4 head of Stock.

3. Date or approximate date of earliest beneficial use; and how con-  
tinuous the use has been. 1914. Has not been used  
for some years. Is now being put into  
USE again.

4. The amount of groundwater claimed (in miner's inches or gallons  
per minute) APPROX. 3 gallons per minute.  
(Taken from old records of the well).

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  
Small garden irrigation only.

Owner, Joseph E. Rutan

6. The means of withdrawing such water from the ground and the  
location of each well or other means of withdrawal. HAND  
pump. Well is located in the NE of the NW 1/4,  
SEC. 12, T. 20 N., Range 2E,  
CASCADE COUNTY, MONTANA

7. The date of commencement and completion of the construction of the well, wells, or other works for with-  
drawal of groundwater. 1914.

8. The depth of water table. 65 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. 5" casing down 90 feet to rock  
75 feet to rock  
TOTAL DEPTH 165 feet.

10. The estimated amount of groundwater withdrawn each year. Has not been used for  
many years.

11. The log of formations encountered in the drilling of each well if available. 90 feet of clay  
75 feet of rock to bottom of well.

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. The well was in use from 1914 to  
1921 for general household use, gardening and for watering stock.  
It is now being put into use again.

Signature of Owner Joseph E. Rutan

Date June 25, 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.

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MISSISSIPPI, } ss.

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office cr

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9:30

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5283

STATE OF MONTANA, } ss.  
County of Cascade.

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

MAY 26 1971

Date

at 8:45 o'clock A M.

J. L. LINDON  
County Clerk and Recorder

By

R. E. Tolman

Deputy



File No.

T. 20 R. 2E

DUPLICATE

County **Cascade**

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

**R**  
DATE 1963

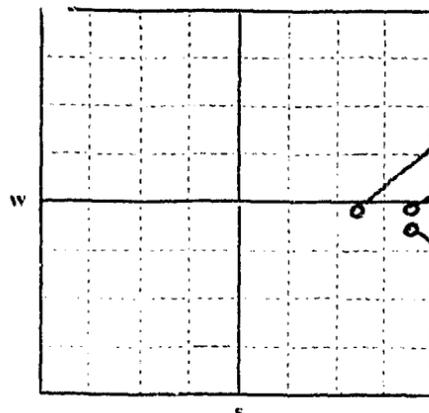
### Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. <sup>*Edson*</sup> **Gladys Andersen** (Name of Appropriator) of **Route 1 West, Box 375, 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:

**Section 15**



**SE** 1/4 Sec. 15 T. 20 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 **water for dwellings and livestock consumption**
3. Date or approximate date of earliest beneficial use; and how continuous the use has been **No. 1 used continuously since 1920. No. 2 used continuously since 1953. No. 3 used continuously since before 1916**
4. The amount of groundwater claimed (in miner's inches or gallons per minute) **No. 1 approximately 15 gpm. No. 2 measured at 15 gpm. No. 3 approximately 15 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 **No irrigation use other than lawn and garden watering**
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal **No. 1, windmill. No. 2, electric pump. No. 3, electric pump.**
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater **Well no. 1 constructed in 1920. Well no. 2 constructed in 1953. Well no. 3 constructed before 1916**
8. The depth of water table **approximately 20 feet of water in each 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 **Well no. 1 about 60 feet deep. Well no. 2 about 45 feet deep. Well no. 3 about 60 feet deep.**
10. The estimated amount of groundwater withdrawn each year **1,500,000 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 *Gladys Andersen*

Date *Dec. 27, 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.

27870

3882

STATE OF MONTANA, )  
County of Cascade. )

I hereby certify that the within in-  
strument was filed in this office on  
DEC 27 1962

at \_\_\_\_\_ 257 \_\_\_\_\_  
County of \_\_\_\_\_  
by J. J. Deane  
Deputy.

File No. ....

T. 20. N. R. 26

DUPLICATE

County .....

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 9 1964

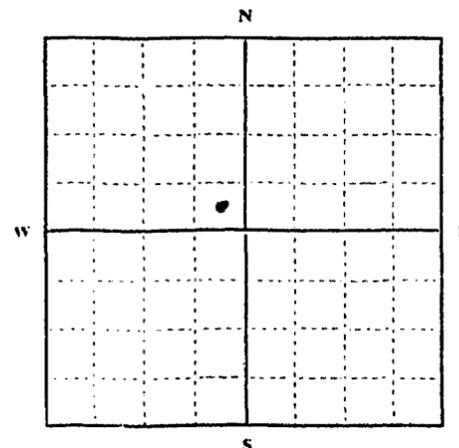
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Richard Hasler, of Rocky Mountain, Montana  
(Name of Appropriator) (Address) (Town)

County of \_\_\_\_\_ State of \_\_\_\_\_  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



1/4 Sec. 20 T. 20 N. R. 26 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.....
3. Date or approximate date of earliest beneficial use; and how continuous the use has been .....
4. The amount of groundwater claimed (in miner's inches or 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 .....
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal .....
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.....
8. The depth of water table..... 6.75 ft. deep
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 .....
10. The estimated amount of groundwater withdrawn each year..... 700 gal
11. The log of formations encountered in the drilling of each well if 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 .....

Date 20, 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.

3974

CLERK AND RECORDER  
COURT OF COMMON PLEAS  
I HEREBY  
INSTRUMENT  
IN THE

NO. 10:43 9

*A. C. Field*

File No. ....

T. 20 R. 25

DUPLICATE

County Cascade

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

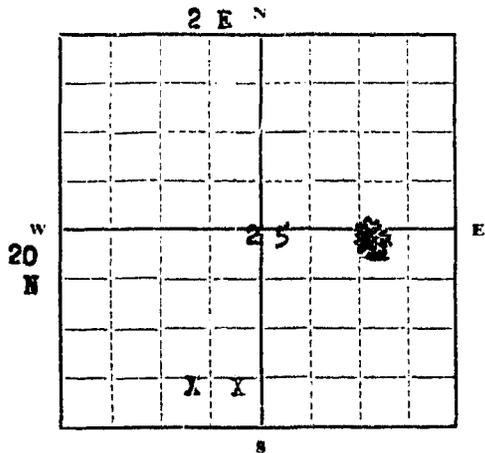
RECEIVED  
SEP 3 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. HAROLD J. & MARY SCHILLING of RTE. 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:



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.....  
Livestock, domestic use and irrigation
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been.....  
Unknown. Some time prior to 1916. Use continuous
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute).....  
20 miner's inches
- 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 for irrigation of garden tract, trees, watering livestock and domestic use. About 1 acre
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.....  
Electric pump (Same location)
- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.....  
Some time prior to 1916
- 8. The depth of water table..... Don't know.
- 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.....  
Depth of well - 110 ft. 6" casing
- 10. The estimated amount of groundwater withdrawn each year.....1,000,000 to 1,500,000
- 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.....  
Purchased this in 1914 but well had been drilled many years before

Signature of Owner Harold J. Schilling  
Date August 15th, 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.

#3354

STATE OF MONTANA, } ss.  
County of Cascade.

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

AUG 29 1968

Date

at 2:15 o'clock P. M.

**J. L. LENNON**

County Clerk and Recorder.

By B. B. B. Deputy.

File No. ....

T. 20 R. 2E

DUPLICATE

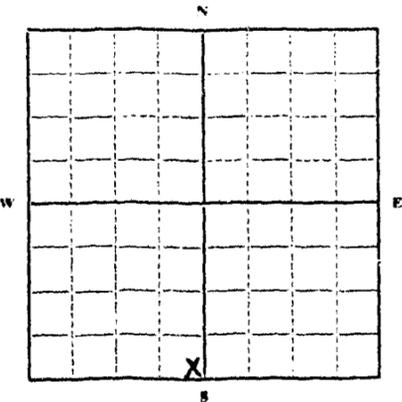
County Cascade

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

I, <sup>Peterson</sup> Gladys Andersen, of Route 1 West, Box 375, 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. 29 T. 20 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 water for Drilling and livestock consumption
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been continuous since before 1916
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) Approximately 3 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 applicable
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Windmill

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Before 1916

8. The depth of water table not known

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 Hand - dug well, about 50 feet deep.

10. The estimated amount of groundwater withdrawn each year 8,000 Gallons

11. The log of formations encountered in the drilling of each well if available Not Known

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 Gladys Peterson Andersen  
Date Dec 27, 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.

27868

3886

STATE OF MONTANA,  
County of Cascade.

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

DEC 27 1963

at 255 \_\_\_\_\_

J. W. EDWARDS

County Clerk

BY J. J. Johnson  
Deputy.

GW.

Approved Stock Form - State Publishing Co., Helena, Montana - 42234

File No. ....

T 20 R 2 E

DUPLICATE

County Cascade

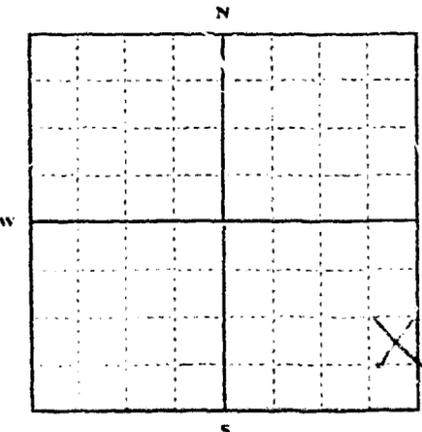
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 4 1964  
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Warren R. Hastings of Box 129 Ulm  
(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. 28 T 20 N R 2 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 and  
irrigation
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1958 since that year
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) 5 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  
None
- 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 1958 to 1958
- 8. The depth of water table 380 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 6 in hole 450 ft in depth
- 10. The estimated amount of groundwater withdrawn each year 2000
- 11. The log of formations encountered in the drilling of each well if 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 Warren R. Hastings  
Date 12-20-63

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.

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File No.....

T 20..... R 2E.....

DUPLICATE

County Cascade

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

**Notice of Completion of Groundwater Appropriation  
Without Well**

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater..... April 1966

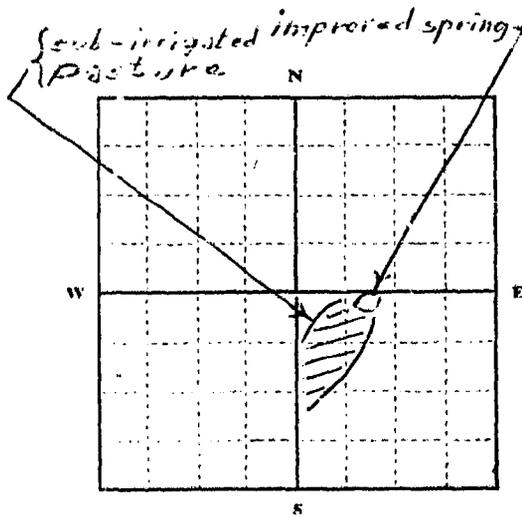
Owner..... Gladys Andersen Address..... Route 1 West  
Great Falls

Contractor (if any) none

Address of Contractor not applicable

Date Started not known Date Completed before 1916

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Approximately 5 acres naturally subirrigated. Livestock watering facility from spring has been improved by digging (by hand) a shallow hole with surface area of about 100 square feet. Depth to water about 1 foot.



SE 1/4 Sec. 29 T 20 R 2E  
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. In addition to subirrigation of about 5 acres of pasture, sufficient water is provided by the spring to water up to 20 head of cattle. No flow-rate measurements have ever been made. The spring is used for livestock watering an average of 6 months per year.

Signature of Owner..... Gladys Andersen

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.

3881

STATE OF MONTANA, )  
County of Cascade

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

DEC 27 1943

at 2:56 o'clock

J. E. LENNON  
County Clerk and Recorder

By [Signature]  
Deputy.

File No.....

T. 201 N. R. 2 E

DUPLICATE

County Carbon

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 9 1964

Notice of Completion of Groundwater Appropriation  
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater.....

Owner Hastings Bros Address Route 1 Good Falls

Contractor (if any) none

Address of Contractor none

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. Recharge headwater

of a spring creek that runs all year round, the depth is 1 foot deep to two feet wide in most places

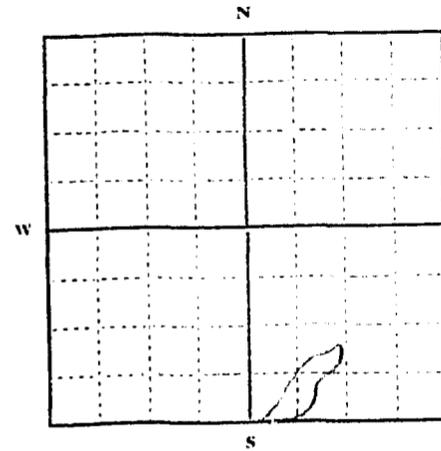
Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use. used

mostly in the fall & winter months for cattle however many of estimates quantity of water it develops

Signature of Owner Hastings Bros

Date Dec 28, 1963



1/4 Sec. 29 T. 20 N. R. 2 E.

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

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.

3975

CLERK AND RECORDED  
U.S. DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
WASHINGTON, D.C.

DEC 22 1963

10144 R

*D. C. Webb*

WATER CONSERVATION BOARD

File No. ....

T. 20N R. 2 East 31

JAN 16 1967

DUPLICATE

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)

Owner **Harold and/or E. Sylvia Polich** Address **Ulm, Montana 2112-7th Ave. S.**  
Driller **Pat Byrne** Address **Great Falls, Mont.**

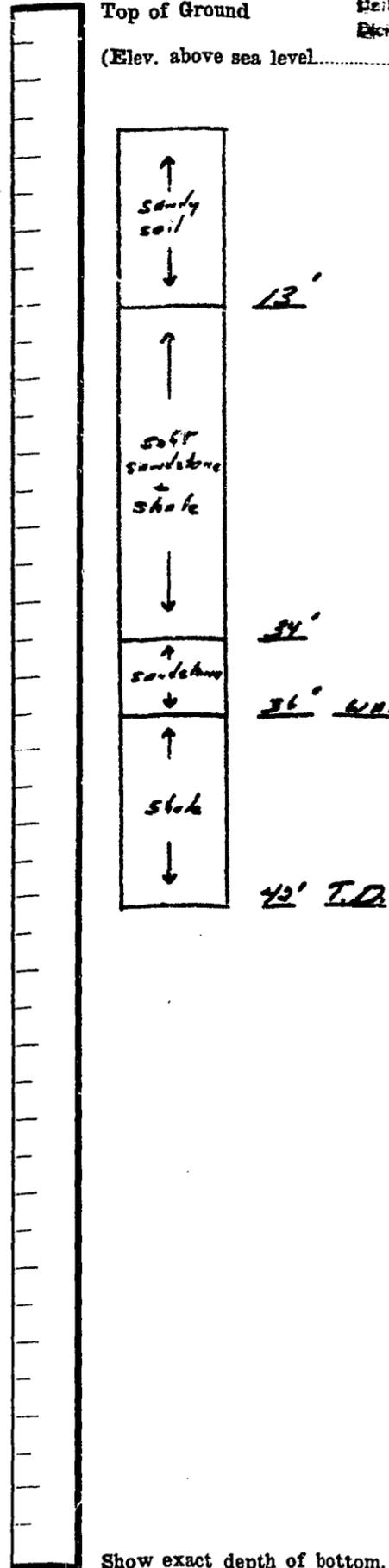
Date of Notice of appropriation of groundwater.....

Date well started **Nov. 3, 1966** Date completed **Nov. 5, 1966**

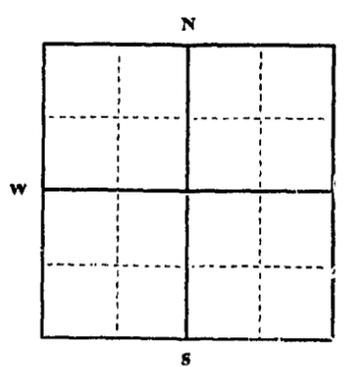
Type of well **Drilled** Equipment used **Churn drill**  
(Dug, driven, bored or drilled) (Churn drill, rotary or other)

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)
7"	3"OD 17# 6-5/8"ID	0	34	Not perforated		



Static Water Level for non-flowing well ..... **28'** feet.  
Shut-in Pressure for Flowing Well.....  
Pumping Water Level..... **38** feet  
at **20** gal. per minute.  
Discharge in gal. per min. of flowing well .....

How Tested **Bailer**  
Length of Test **1 hour**

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

SW 1/4 Sec 31 20N R 2E  
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).

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, otherwise the form will be returned.

135  
Driller's License Number

*Pat Byrne*  
Driller's Signature

41051

4996

STATE OF MONTANA, ) ss.  
County of Cascade.

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

JAN 4 1967

at 1:00 o'clock P.M.

J. L. LANNON  
County Clerk and Recorder.

By [Signature]  
Deputy.

File No.

T. 22N R. 2E

DUPLICATE

County

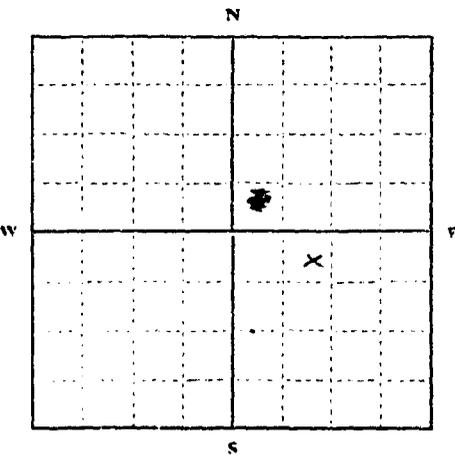
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 9 1964  
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. HAROLD POLICE, of ULM  
(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:



NE 1/4 Sec. 31 T. 22N R. 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 household, stock and small garden
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been Began use in May, 1960 - used ever since
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) two (2) 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 used
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Deep well pump

- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Well completed in May of 1960
- 8. The depth of water table 110 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 well is 100 feet deep, 6 inches in diameter, without casing
- 10. The estimated amount of groundwater withdrawn each year 613,200 gallons
- 11. The log of formations encountered in the drilling of each well if available Solid Rock down to 110 feet
- 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 Harold Police  
Date December 31, 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.

67504

4517

REC'D 11/15/27

2:24 P.M.

W. L. LENNON  
CLERK OF RECORDS  
COUNTY OF MONTANA

*A. J. [Signature]*  
DEPUTY

File No.

T. R.

DUPLICATE

County

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

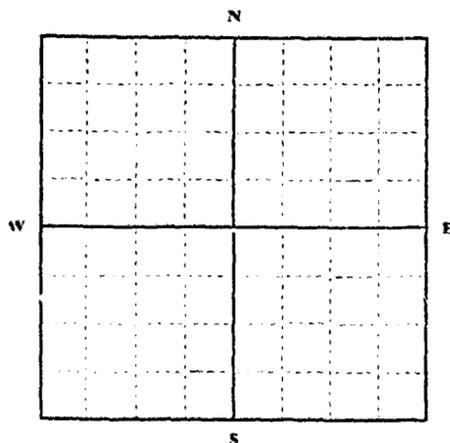
**Declaration of Vested Groundwater Rights**

(Under Chapter 237, Montana Session Laws, 1961)

1. Edwin C. and Betty L. Galloway of Box 114 ULM  
(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  $\frac{1}{4}$  SE  $\frac{1}{4}$  32 T. 20N. R. 2E M.P.M.

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 Home, Truck + court + garden + lawns
3. Date or approximate date of earliest beneficial use; and how continuous the use has been April 1961 - CONTINUOUS
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 35 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 2 acres Edwin C. Galloway
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Jet Type Pump, deep well.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater April - 1961

8. The depth of water table 6 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 6 inch casing, 135 feet in depth. Jet 40 feet from pipe 30 feet from casing.

10. The estimated amount of groundwater withdrawn each year 216,000 gals

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 attested by Mr. Franklin, deceased

Signature of Owner

Edwin C. Galloway

Date

April 27, 1961

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.

27840

3852

STATE OF MONTANA, )  
County of Cascade, )

I hereby certify that the within in-  
strument was filed in this office on  
DEC 27 1962

at 1:30<sup>PM</sup> o'clock M.

J. E. LENNON  
County Clerk and Recorder.

By *J. J. Johnson*  
Deputy

File No. ....

T. 20 North R. 2 East 31

DUPLICATE

County Cascade

LOG

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER



Top of Ground

(Elev. above sea level 3060)

0 - 2 Ft. - Sandy loam

2 - 16 - Silt

16 - 39 - Sandy silt

39 - 41 Sand Rock

### Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner Minnieball and/or Gordon L. Hawthorn Address Box 122 ulm, Mont

Driller E. D. Rafferty Address 927 10<sup>th</sup> Ave S.W. City

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

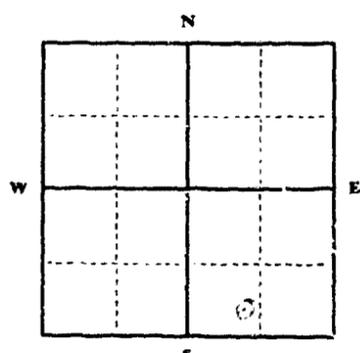
Date well started July 22, 1969 Date completed July 23, 1969

Type of well Drilled Equipment used Churn Drill  
(Dug, driven, bored or cased) (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 1/2" O.D. w/ lbs per ft.	0	41	casing driven to top of sand rock		opened



Static Water Level for non-flowing well ..... X ..... feet.  
 Shut-in Pressure for Flowing Well.....  
 Pumping Water Level..... feet  
 at..... gal. per minute.  
 Discharge in gal. per min. of flowing well  
 40 Gals per min  
 How Tested 5 gals in 8 seconds  
 Length of Test.....  
 Remarks: (Gravel packing, cementing, packers, type of shut-off) Filled behind casing with shale + tamped

SW 1/4 Sec. 32 T. 20 N. R. 2 E.  
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).

→ 41 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

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STATE OF MONTANA  
County of Cascade

I hereby certify that the within instrument was filed in this office on  
AUG 7 1969

Date  
at 4:40 o'clock P M

J. L. LINDEN  
County Clerk and Recorder

by *[Signature]*  
Deputy