

T. 30 N R. 20 W 18

F. No.

County Flathead

TRIPPLICATE

RECEIVED  
DEC 30 1963  
STATE ENGINEER

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater  
Appropriation by Means of Well

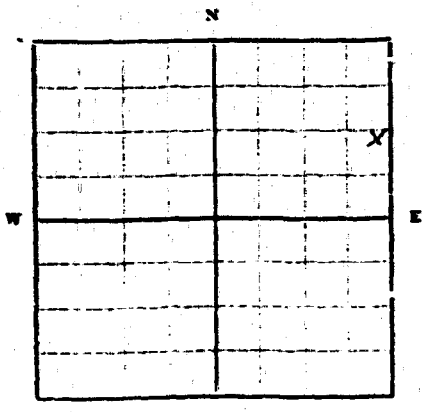
(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground  
(Elev. above sea level)  
0 to 30 ft  
Hard pan + boulders  
30 to 40 ft  
Sand with gravel  
40 to 79 ft  
Gray hard pan  
79 to 96 ft  
Brown hard pan  
96 to 97 ft  
Waterbearing gravel  
and sand  
Total depth 97'

Owner William Head Address Col. Falls, Mont  
Driller Olson & Justin Address Col. Falls, Mont  
Date of Notice of Appropriation of Groundwater none filed  
Date well started Feb-12-63 Date Completed Feb-18-63  
Type of well Drilled Equipment Used Churn  
(dug, driven, bored or drilled) (Churn, grill, 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)	PREPARATIONS:		
				Kind Size	From (Feet)	To (Feet)
7"	23 lbs per ft	0	97	none		



Section 18, T. 30 N. R. 20 W.  
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 66 feet.  
Shut-in Pressure for Flowing Well non-flowing  
Pumping Water Level 75 feet at 15 gal. per minute.  
Discharge in gal. per min. of flowing well non-flowing  
How Tested Bailer Length of Test 2 hrs.

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

no 55  
Driller's License Number  
Olson & Justin  
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 School of Mines and Quadruplicate for the Appropriator.

10,145

STATE OF MONTANA / SS  
COUNTY OF FLAHEAD

Filed on the 23 day of Dec.  
A. D. 1963 at 12<sup>05</sup> o'clock P. M.

H. S. M.

County Clerk and Recorder

By J. J. N.

Deputy

*[Faint, illegible text, possibly a stamp or header, mostly obscured by noise and bleed-through.]*

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

GW 1

T. 32 R. 20D 1P

County Flathead

MONTANA WATER RESOURCES BOARD  
**RECEIVED**

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level) 3310.00 1970

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

(Under Chapter 237, Montana Session Laws, 1961)

0-1 1/2' Top Soil  
 1 1/2'-32' Gravel & Boulders  
 32'-53' Gray Clay  
           Pebbles  
 53'-84' Cemented or  
           Congealed gravel  
           Sec page 58'  
 84'-94' Hard pan  
           & heavier gravel  
 94'-96' gravel - cemented  
           fine sand.  
           (water)

Owner Delmer Hughes Address Cal. Falls

Driller Weber Drilling Co. Address Cal. Falls

Date of Notice of Appropriation of Groundwater \_\_\_\_\_

Date well started 4-23-69 Date Completed 4-29-69

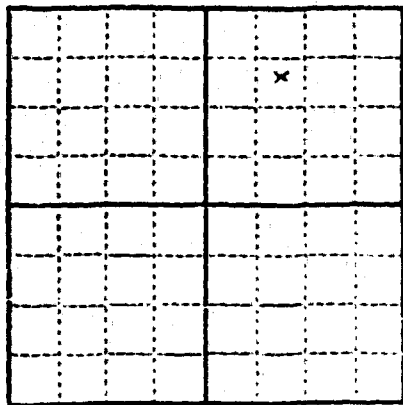
Type of well drilled Equipment Used Churn  
(dug, driven, bored or drilled) (Churn, drill, rotary or other)

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	From (Feet)	To (Feet)
7"	7" O.D. 20#/ft.	0'	90'	None		

Doc. No. 14079  
Filed for record  
this 10 day of November  
A. D. 19 69, at 2:45  
o'clock P.M.



Section 2 T. 20 R. 20D  
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom. 96'

Static Water Level for non-flowing Well 52 feet

Shut-in Pressure for Flowing Well None

Pumping Water Level 90 feet at 7.5 gal. per minute.

Discharge in gal. per min. of flowing well None

How Tested Bailed Length of Test 4 hrs.

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) Open Bottom

181

Driller's License Number

Jerome A. Weber  
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.

46073

11,079

STATE OF MONTANA )  
COUNTY OF FLATHEAD ) SS

Filed on the 10 day of Nov  
A. D. 1969 at 7:50 Clock PM

Blm  
County Clerk and Recorder

By [Signature] Deputy

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

County Flathead

QUADRUPPLICATE

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)

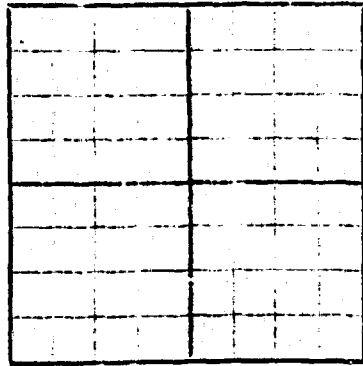
Top of Ground  
(Elev. above sea level \_\_\_\_\_)

0 to 27 ft Sandy Silt  
27 to 88 ft Silt  
88 to 115 ft  
clay and gravel.  
115 to 174 ft  
Burned hard pan  
174 to 175 ft  
Water bearing  
gravel and sand.

Owner: Barth & Johnson Address: Walter City Road  
 Driller: George J. Justice Address: Col. Falls, Mont  
 Date of Notice of Appropriation of Groundwater: Nov file  
 Date well started: Oct 28-68 Date Completed: Oct 28-68  
 Type of well: Bored 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 3/8	7" O.D. 23 lb.	0	175	none		



N.W. 1/4, N44 Sec. 18, T30N, R20W  
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: 75 feet.  
 Shut-in Pressure for Flowing Well: non-flowing  
 Pumping Water Level: 95 feet at 20 gal. per minute.  
 Discharge in gal. per min. of flowing well: non-flowing  
 How Tested: Sailer Length of Test: 3 hrs

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)

70155  
 Driller's License Number  
George J. Justice  
 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 School of Mines and Quadruplicate for the Appropriator.

13967

STATE OF MONTANA  
COUNTY OF FLETCHER 56  
Filed on the 14 day of March  
A.D. 1915 at 10 o'clock A.M.  
County Clerk and Recorder  
By [Signature]

File No. GW 2

GW 2

T. 30 R. 22  
County Flathead

RECEIVED

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODES  
OFFICE OF STATE ENGINEER

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

(Under Chapter 237, Montana Session Laws, 1961)

Owner Montana Veterans Home Address Columbia Falls, Mont.

Driller Olsen & Justice Address Columbia Falls, Mont.

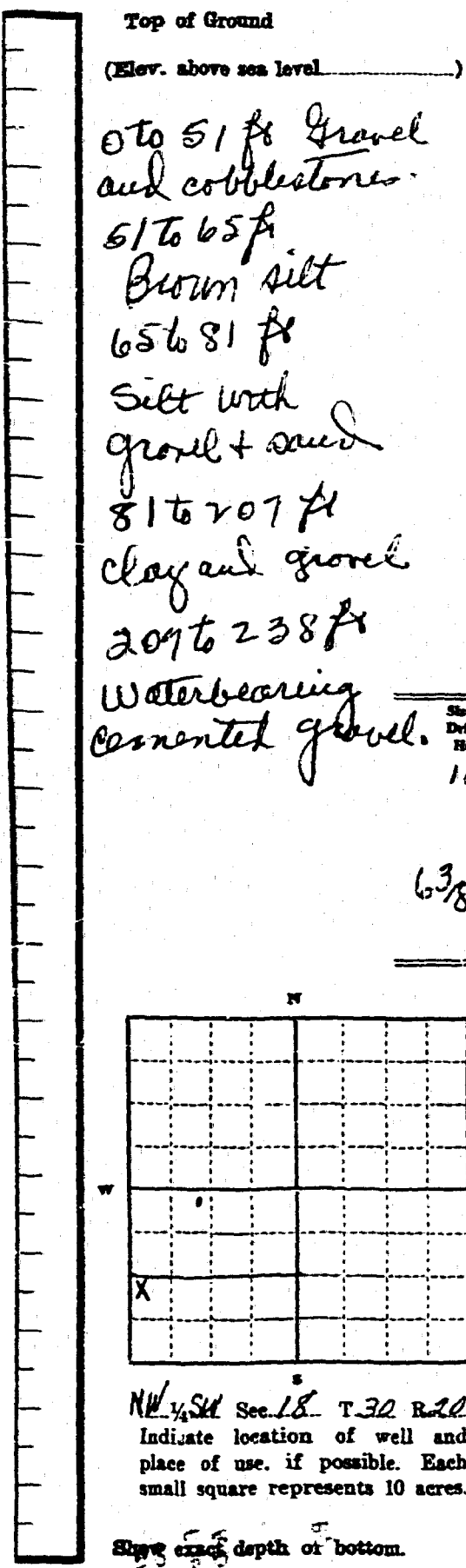
Date of Notice of Appropriation of Groundwater none filed

Date well started Nov 21 - 67 Date Completed Dec 11 - 67

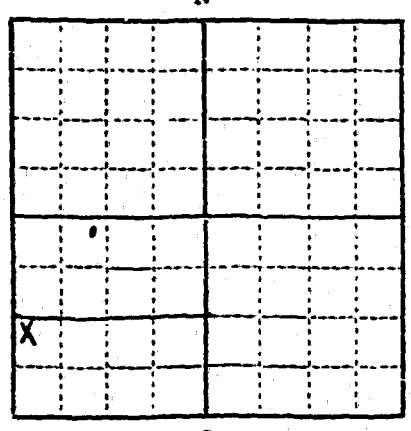
Type of well Drilled Equipment Used Churn  
(dug, driven, bored or drilled) (Churn, drill, rotary or other)

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)
10"	10" I.D. 31-20 lbs per ft	0	11'6"			
6 3/8"	7" O.D. 23 lbs per ft	0	210			none



NW 1/4 Sec. 18 T. 30 R. 22  
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 74 feet.

Shut-in Pressure for Flowing Well non-flowing

Pumping Water Level 88 feet at 60 gal. per minute.

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

How Tested Pump Length of Test 3 hrs.

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)

72055  
Driller's License Number  
Olsen & Justice  
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 Quaduplicate for the Appropriator.

43,001

13,097

STATE OF MONTANA  
COUNTY OF FLATHEAD

Filed on the 16 day of Jan  
A.D. 1968 at 4:50 Clock P.M.

*[Signature]*  
County Clerk and Recorder  
By *[Signature]* Deputy

FEB 13 1968



STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 6 1964  
STATE ENGINEER

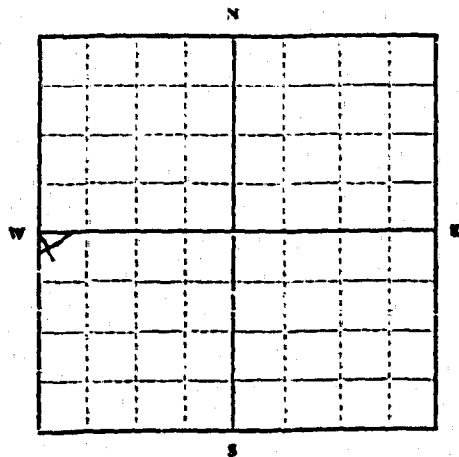
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. William C. Holloy, St. Richard's Parish of 1208 -9th St. West, Columbia Falls, Montana  
(Name of Appropriator) (Address) (Town)

County of Flathead State of Montana

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



NW 1/4 SW Sec. 18 T30N R20W

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 Irrigation of St. Richard's Cemetery

3. Date or approximate date of earliest beneficial use; and how continuous the use has been June 1961, during the summer months

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

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 two acres

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Submersible pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Commenced June 15, 1961  
Completed June 26, 1961

8. The depth of water table 72 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 well - drilled with churn drill. Cased with 7 inch O.D. casing. 23 lbs per foot. Welded joints. Total depth 204 feet.

All measurements from existing ground surface.

10. The estimated amount of groundwater withdrawn each year 2 million gallons.

11. The log of formations encountered in the drilling of each well if available 0 to 26 feet coarse gravel and cobbles, 26 to 67 feet tan silt, 67 to 79 feet fine sand, 79 to 121 feet silt, 121 to 202 feet hard pan with some water, 202 to 204 feet water bearing gravel 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 not applicable

Signature of Owner William C. Holloy  
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.

10934

STATE OF NEW YORK  
COUNTY OF HAMILTON

Filed on the 31<sup>st</sup> day of Dec  
A.D. 1863 at 12 o'clock P.M.

*J. H. M.*  
County Clerk and Recorder

By *al d H*  
Deputy

F. No. \_\_\_\_\_

County Flathead

TRIPLICATE

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 80 ft Sandy Silt.

80 to 131 ft  
Silt with some  
gravel.

131 to 132 ft  
waterbearing  
gravel and sand.

Owner W. F. Ritter Address Columbia Falls Mont

Driller Alpen & Justice Address Col Falls Mont

Date of Notice of Appropriation of Groundwater none filed

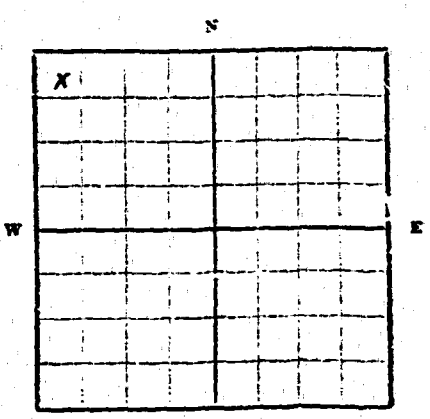
Date well started Dec 9-68 Date Completed Dec 12-68

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 3/8"	7" 0.0	0	132	none		
1 1/2"	2 3/4"					



T-90  
NW 1/4 NW Sec. 18, T.30 R.20  
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 74 feet.

Shut-in Pressure for Flowing Well non-flowing

Pumping Water Level 86 feet at 20 gal. per minute.

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

How Tested Bailer Length of Test 3 hrs

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)

70155

Driller's License Number

Alpen & Justice  
George F. Justice  
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 School of Mines and Quadruplicate for the Appropriator.

45,119

13,950

STATE OF MONTANA  
COUNTY OF FLATHEAD

Filed on the 17 day of Jan  
A.D. 1967 at 3:35 o'clock PM

*Sam*  
County Clerk and Recorder

By *DA*  
Deputy

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

GW # \_\_\_\_\_

T. 30N R. 20E

County Flathead

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 6 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Rocky Mountain Lumber Co., Inc. of Columbia Falls,  
(Name of Appropriator) (Address) (Town)  
County of Flathead State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:


2. The beneficial use on which the claim is based Fire protection--  
log storage pond, boiler and drinking water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1954 until 1962 pond use  
and fire only--from July 1962 continuous on above  
items.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 150 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  
None

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal  
Centrifugal pump

Sec. 18 T. 30N R. 20W

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1954

8. The depth of water table 24 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  
unknown

10. The estimated amount of groundwater withdrawn each year 3,900,000 gal.

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

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 Rocky Mountain Co.  
by R. R. Reid  
Date December 24, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

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

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

22844

10637

STATE OF MONTANA  
COUNTY OF FLAHEAD, SS

Filed on the 1st day of Dec  
A.D. 1913 at 8<sup>04</sup> o'clock AM

J. C. W.  
County Clerk and Recorder

By J. C. W.  
Deputy

File No. \_\_\_\_\_ Doc. No. 12112  
 Filed for record \_\_\_\_\_ GW 2  
 this 25 day of Feb  
 A. D. 19 70, at 1:25  
 o'clock P. M.

T. 30 N. R. 20 W. 10  
 County Flathead

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

(Under Chapter 237, Montana Session Laws, 1961)

0 to 26 ft coarse gravel  
 and cobblestone  
 26 to 67 ft Tan silt  
 67 to 79 ft fine sand  
 and gravel.  
 79 to 121 ft Sandy  
 silt.  
 121 to 204 ft Hard  
 pan  
 204 to 210 ft  
 Water bearing gravel  
 and sand.

Owner: St. Richards Church Address: Columbia Falls Mont.  
 Driller: Olsen & Justice Address: Col. Falls Montana

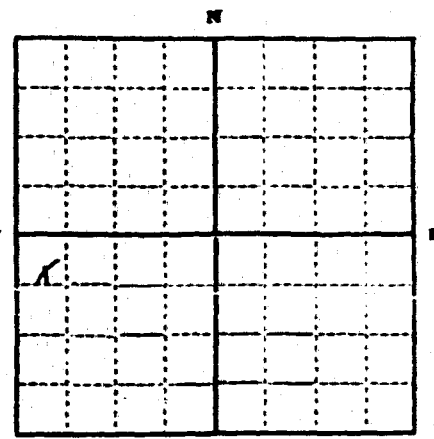
Date of Notice of Appropriation of Groundwater: None filed  
 Date well started: \_\_\_\_\_ Date Completed: Oct 15 1969

Type of well: Drilled Equipment Used: Churn  
 (dag, 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)	TEMPERATURE		
				Kind	From (Feet)	To (Feet)
6 3/8"	7" O.D. 23 lb	0	210	None		



71N45W Sec. 5 T. 30. R. 20W  
 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: 72 feet.  
 Shut-in Pressure for Flowing Well: non-flowing  
 Pumping Water Level: 120 feet at 60 gal. per minute.  
 Discharge in gal. per min. of flowing well: non-flowing  
 How Tested: 3 H.P. Submersible pump Length of Test: 2 hrs.

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)

all measurements from existing ground surface

2055  
 Driller's License Number  
 By: Olsen & Justice  
 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.

14112

STATE OF MONTANA  
COUNTY OF FLATHEAD SS

Filed on the 25 day of Sep  
A. D. 1970 at 1:25 Clock P M

56m  
County Clerk and Recorder

By M.J. Deputy



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

STATE WATER CONSERVATION BOARD

T. 30 R. 20 - 18  
County Blattell

MAY 17 1967

STATE OF MONTANA

DUPLICATE

McDermott  
Butterfield  
Coyne  
Darlington  
Dickert  
McDermott  
Mortenson  
Sullivan  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Top of Ground  
(Elev. above sea level)

0 to 85 Hard Pan

85 to 92 ft.  
Brown hard pan

Dry water

92 to 93 ft

Waterbearing  
gravel and sand.

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

(Under Chapter 237, Montana Session Laws, 1961)

Owner Robert A. Yandell Address Col. Teller, Mont.

Driller Olson & Justice Address Col. Teller, Mont.

Date of Notice of Appropriation of Groundwater none filed

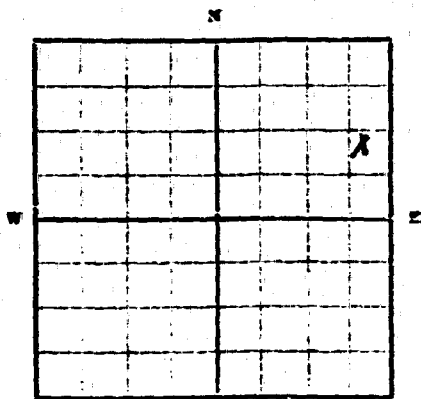
Date well started Apr 4-67 Date Completed Apr 6-67

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 3/8	2.3 lb per ft.	0	93	none		



SE 1/4 NE Sec 18 T30 R20  
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 58 feet.

Shut-in Pressure for Flowing Well not flowing

Pumping Water Level 61 feet at 30 gal. per minute.

Discharge in gal. per min. of flowing well not flowing

How Tested Diaper Length of Test 2 hrs.

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)

57055  
Driller's License Number  
Olson & Justice  
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 School of Mines and Quadruplicate for the Appropriator.

41,897

12,873

*Handwritten notes*

COUNTY OF ...  
 FILED ON ...  
 A.D. 19...  
 County Clerk and Recorder  
 By: *[Signature]*  
 Deputy

*Handwritten notes*  
 ...  
 ...

*Handwritten notes*  
 ...  
 ...

*Handwritten notes*  
 ...  
 ...

...  
 ...  
 ...


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

GW 4

T 30 N 20 W 19  
County Florence

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

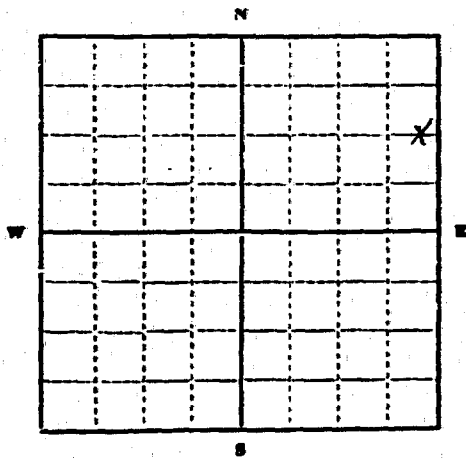
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED  
JAN 8 1964

1. Emil Nelson of Columbia Falls STATE ENGINEER  
(Name of Appropriator) (Address) (Town) R-1-A

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



N. E. 1/4 Sec. 19 T. 30 R. 20

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 cattle

3. Date or approximate date of earliest beneficial use; and how continuous the use has been continuous since 19  
unknown

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

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 / pressure tank in pit

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

8. The depth of water table unknown

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 unknown

10. The estimated amount of groundwater withdrawn each year 25,000 gals.

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

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 Emil Nelson

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.

10,404

STATE OF MINNESOTA  
COUNTY OF HENNEPIN

Filed on the 30<sup>th</sup> day of Dec  
A.D. 1963 at 11<sup>30</sup> o'clock A.M.

JEM  
County Clerk and Recorder

By [Signature] Deputy

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

GW 4

T. 30<sup>N</sup> R. 20<sup>W</sup> 19

County \_\_\_\_\_

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 6 1964

Declaration of Vested Groundwater Rights

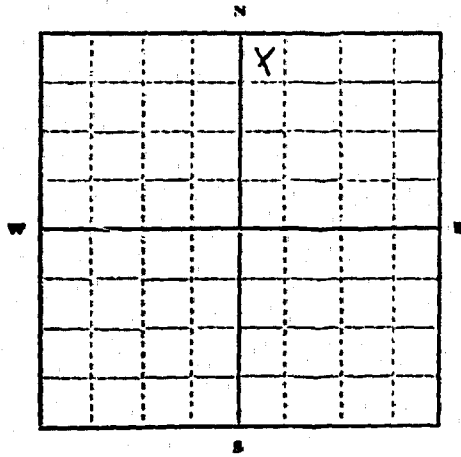
(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

Lukas Lorents  
(Name of Appropriator)

of Rt 1, Columbia Falls  
(Address) (Town)

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



NW 1/4 NE Sec 19 T 30 R 20

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 house use and garden

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. November 15 - 1946 has been continuous use since

4. The amount of groundwater claimed (in miner's inches or gallons per minute) don't know it never went dry

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 for irrigation except garden and town

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. By hand pumping

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Nov 15 - 1946

8. The depth of water table. 22 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. don't know

10. The estimated amount of groundwater withdrawn each year. not much

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 Lukas Lorents  
Date 12-31-63

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.

22818

10691

STATE OF MICHIGAN : SS  
COUNTY OF WASHTENAW : SS

Filed on the 3<sup>rd</sup> day of Dec  
A. D. 1963 at 9:15 o'clock AM

S. C. M.  
County Clerk and Recorder

By S. C. M. Deputy

GW2

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

T 30N R 20W

DUPLICATE

County \_\_\_\_\_

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 24 1962

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

(Under Chapter 237, Montana Session Laws, 1961)

Owner DULANE FULTON Address COLUMBIA FALLS  
BENITA FULTON

Driller Olson & Justus Address Columbia Falls

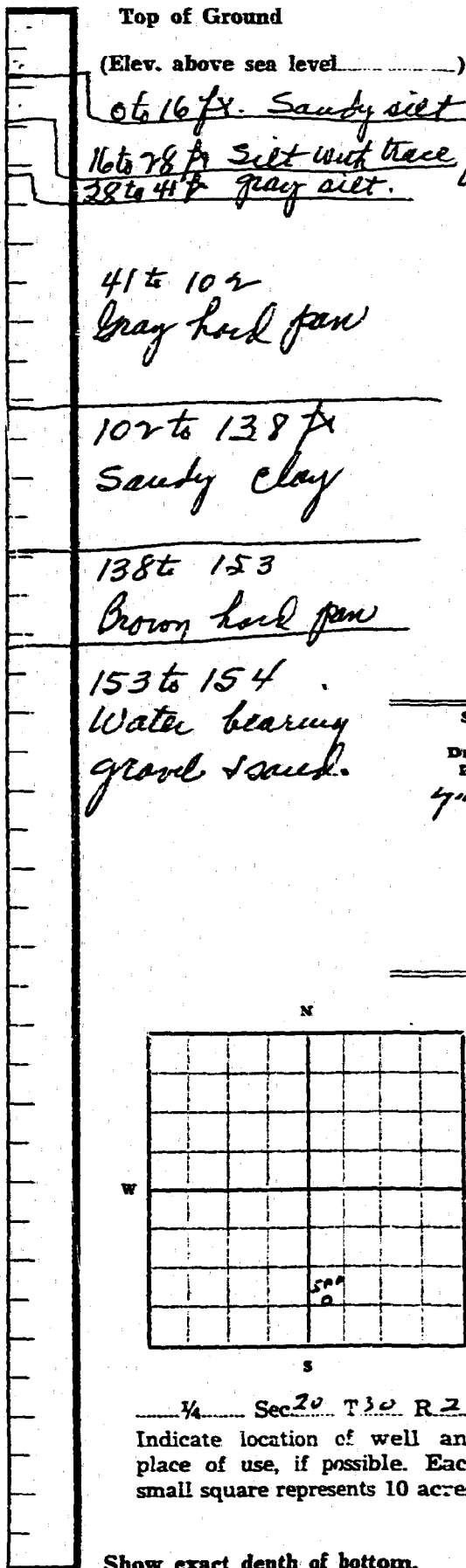
Date of Notice of Appropriation of Groundwater NONE FILED

Date well started JAN. 27 1962 Date Completed Feb 1 1962

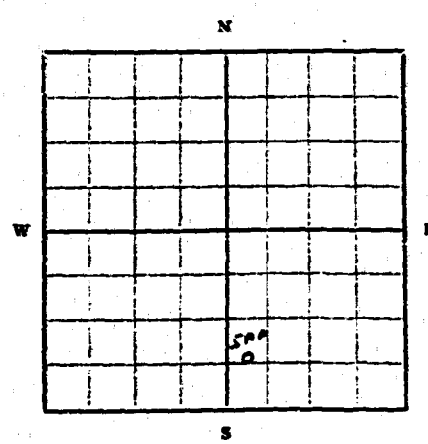
Type of well Drilled Equipment Used CHURN DRILL  
(dug, driven, bored or drilled) (Churn, drill, rotary or other)

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)
4" 00	7 O.D. 23 lb. per ft.	0	154	NONE		



1/4 Sec. 20 T30 R20

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 80 feet.

Shut-in Pressure for Flowing Well NON-flowing

Pumping Water Level 100 feet at 10 gal. per minute.

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

How Tested Bailing Length of Test 4 hrs

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)

55  
Driller's License Number  
Olson & Justus  
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.

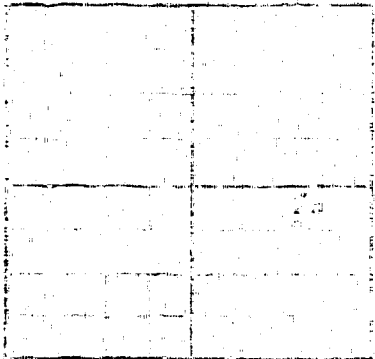
Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

9472

STATE OF MONTANA  
COUNTY OF FLATHEAD

Filed on the 19 day of Dec  
A.D. 1967 at 10 o'clock P.M.

By J. J. A. Deputy  
County Clerk and Recorder



Section 10  
T. 12 N. R. 10 W.

Section 11  
T. 12 N. R. 10 W.

Section 12  
T. 12 N. R. 10 W.

Section 13  
T. 12 N. R. 10 W.

Section 14  
T. 12 N. R. 10 W.

Section 15  
T. 12 N. R. 10 W.

Section 16  
T. 12 N. R. 10 W.

Section 17  
T. 12 N. R. 10 W.

Section 18  
T. 12 N. R. 10 W.

Notice of the filing of this plat is hereby given to all persons claiming an interest in the land described herein that the same has been filed for record in the office of the County Clerk and Recorder of Flathead County, Montana, and that the same will be subject to the provisions of the laws of Montana relating to the recording of such plats.

Witness my hand and the seal of said County at Helena, Montana, this 19th day of December, 1967.

J. J. A.  
Deputy  
County Clerk and Recorder



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

T. 30N R 20W

TRIPPLICATE

County Flathead

LOG

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater  
Appropriation by Means of Well  
DEVELOPED AFTER JANUARY 1, 1962

(Saler Chapter 237, Montana Session Laws, 1961)

Owner: GERALD Gifford Address Columbia Falls

Driller: Deebe Drilling Address Falson

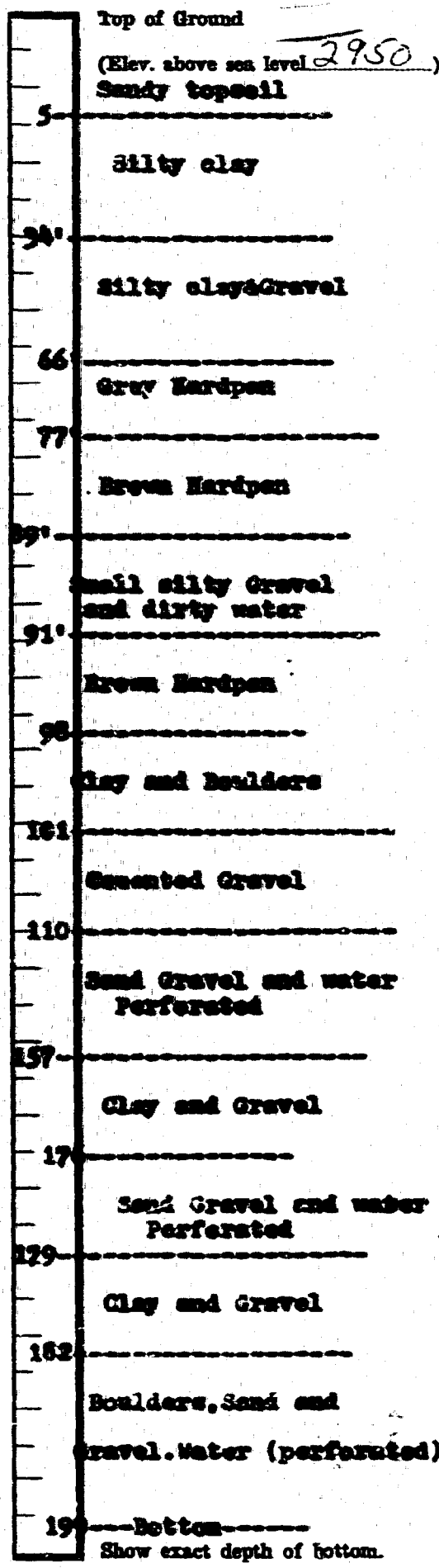
Date of Notice of appropriation of groundwater: N/A

Date well started: April 2 1964 Date completed: April 29, 1968

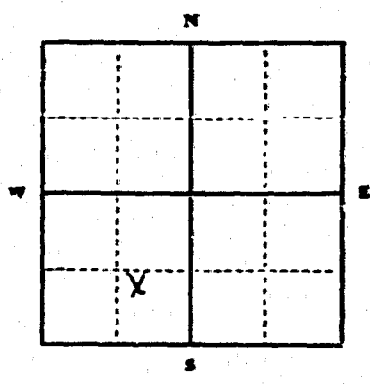
Type of well: Drilled Equipment used: Churn Drill  
(Dug, driven, bored or drilled) (Churn drill, rotary or other)

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.



Size of Driller's Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
10"	10" ID .250 wall 316	+1'	199'	Wells	118	157
				Knife	176	179
				1 1/2"	182	197



Static Water Level for non-flowing well 63 feet.

Shut-in Pressure for Flowing Well N/A

Pumping Water Level 100 feet at 2000 gal. per minute.

Discharge in gal. per min. of flowing well N/A

How Tested: Bailer & Compressor

Length of Test: 5 hr. Compressor

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

**Total perforations cut**  
**750 holes (12 holes per foot)**

SE 1/4 Sec 20 T. 30 R. 20  
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).  
IRRIGATION For 220 Acres

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.

163  
Driller's License Number  
Ronald Deebe  
Driller's Signature.

44,282

12,376

STATE OF MONTANA  
COUNTY OF FLATHEAD

Filed on the 6 day of May  
A. D. 1968 at 2:30 Clock P. M.

*[Signature]*  
County Clerk and Recorder

By *[Signature]*  
Deputy

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

County Flathead

QUADRUPPLICATE

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER  
OFFICE OF STATE ENGINEER

RECEIVED  
MAR 18 1964

Notice of Completion of Groundwater  
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

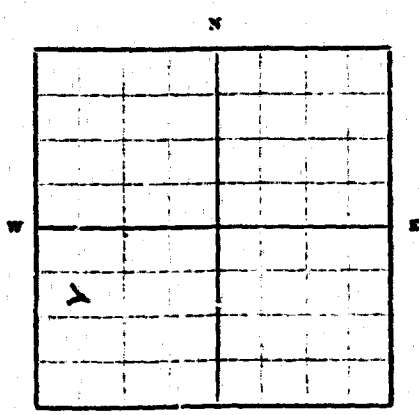
Top of Ground  
(Elev. above sea level.....)

0 to 4' sand & silt.  
4' to 42' sandy silt  
42 to 68' dark silt  
68 to 82' silt with  
some gravel.  
82 to 105' heavy clay  
with some gravel.  
105 to 124' brown  
hard pan.  
124 to 176' water-  
bearing gravel  
and sand.  
Total depth 176'

Owner W. L. Gifford Address Col. Falls, Mont.  
Driller Olson & Justice Address Col. Falls, Mont.  
Date of Notice of Appropriation of Groundwater: none filed  
Date well started Feb 24-64 Date Completed Feb 26-64  
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)
7"	7" 0.0	0	126	none		



SW 1/4 Sec 20 T 30 R 20  
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 68 feet.  
Shut-in Pressure for Flowing Well non-flowing  
Pumping Water Level 86 feet at 20 gal. per minute.  
Discharge in gal. per min. of flowing well non-flowing  
How Tested Bailer Length of Test 2 hrs.

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)

no 55  
Driller's License Number  
Olson & Justice  
By George & Justice  
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 School of Mines and Quadruplicate for the Appropriator.

35475

11,326

COUNTY OF DEWITT, N.Y.  
COUNTY OF PLATTSBURGH, N.Y.

Filed on the 1<sup>st</sup> day of March  
A. D. 1911 at 2<sup>30</sup> o'clock P.M.

H. B. M.  
County Clerk and Recorder

By C. D. X. Deputy

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

GW 4

T 20 R 20

County Flathead

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

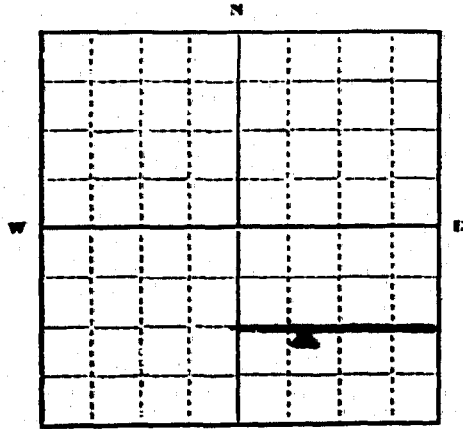
RECEIVED  
JAN 6 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. S. Elizabeth Gross of Rt 1 N Kalispell  
(Name of Appropriator) (Address) (Town)  
County of Flathead State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 1/4 SE 1/4 20 30N 20W  
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 CONSUMER USE, irrigation and stock watering
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1946 and ever since
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) 300,000 gallons for four months for irrigation and 100,000 more for general use.
- 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 Irrigate about three acres, in 10 acre lot checked on map; S. Elizabeth Gross
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal well, electric pump

- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater estimated original well construction over 50 years ago
- 8. The depth of water table well is 118 ft deep and about 75 ft from ground to water
- 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 118 ft deep and about 75 ft from ground to water level, inch and inch-and-a-quarter pipe is used, one-horse electric motor powers the pump.
- 10. The estimated amount of groundwater withdrawn each year about 400,000 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 S. Elizabeth Gross  
Date December 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.

10,319

STATE OF MONTANA, SS  
COUNTY OF FLAHEAD, SS

Filed on the 27 day of Nov  
A. D. 1923 at 3:30 Clock P. M.

G. E. M.  
County Clerk and Recorder  
By [Signature] Deputy

File No. ....

T. 30N R. 20W

20  
27

County Flathead

RECEIVED  
JAN 6 1964

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

STATE ENGINEER

### Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater Dec 27, 1963

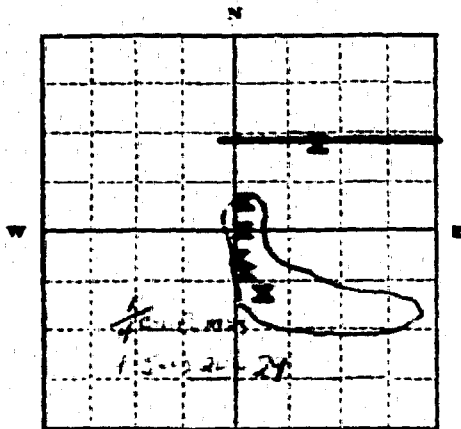
Owner S. Elisabeth Gross address Kelispell, Montana

Contractor (if any) not applicable

Address of Contractor .....

Date Started to be developed Date Completed .....

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



15-2-27  
20629 30W 20W

1/4 Sec. T. R.

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. to be developed

Signature of Owner S. Elisabeth Gross

Date December 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.

10318

STATE OF MONTANA · SS  
COUNTY OF FLAHERTY

Filed on the 27 day of Dec  
A. D. 1963 at 3:05 o'clock P. M

J. C. M.  
County Clerk and Recorder

By J. C. P. Deputy





14,534

STATE OF MONTANA } SS  
COUNTY OF FLATHEAD }

Filed on the 17 day of Oct  
A. D. 1922 at 11 o'clock P.M.

Sham E. Millman  
County Clerk and Recorder  
By James L. Wheeler  
Deputy

30 N 20 W  
County Flathead

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER  
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

Owner Richard McKay

Address Rt. 1-A  
Col. Falls, Mont.

Date well started 3-22-72

completed 5-2-72

For Administrator's Use
File <u>14,428</u>
<u>May 19, 1972 11:20 AM</u>
GW 1

Type of well Drilled

(Dug, driven, bored or drilled)

Equipment used Churn

(Churn drill, rotary or other)

Water Use: Domestic  Municipal  Stock  Irrigation

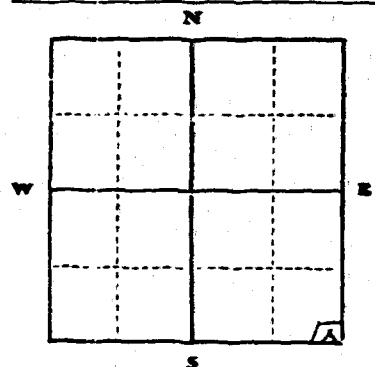
Industrial  Drainage  Other \* Garden/Lawn

\*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 150,000

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
<u>6 1/8"</u>	<u>6" I. D. .250 wt. 11</u>	<u>0</u>	<u>102</u>	<u>NONE</u>		



Static water level 35 ft.\*  
Pumping water level 82 ft.\*  
at 120 gallons per minute,  
measured 120 minutes after pumping  
began.  
\*Measured from ground level  
Well developed by 11/18  
for 1 hours.  
Power 230 Pump 1 HP  
Remarks: (Gravel packing, cementing,  
packers, type of shutoff) See Bottom

1/4 SE 1/4 Sec. 20  
T. 30 N. R. 20 E

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

Driller's Signature Jerome H. Weber

Driller's Address Box 929, Col. Falls, Mont.

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) 3,000

From (Feet)	To (Feet)	
<u>0</u>	<u>4</u>	<u>Top Soil</u>
<u>4</u>	<u>28</u>	<u>Gravel</u>
<u>28</u>	<u>95</u>	<u>Brown sandy clay</u>
<u>95</u>	<u>95</u>	<u>Pebbles &amp; clay</u>
<u>95</u>	<u>102</u>	<u>Cemented gravel</u>
		<u>Sand &amp; clay</u>
		<u>WATER STRATA</u>

LICENSE NO. 181

102

Show exact depth of bottom

50,432

14428

STATE OF MONTANA } SS  
COUNTY OF PLATHEARS }

Filed on the 19 day of May  
A.D. 19 70 at 12 o'clock M

[Signature]  
County Clerk and Recorder

By [Signature] Deputy



14787

STATE OF MONTANA }  
COUNTY OF FLATHEAD } SS  
Filed on the 29 day of June  
A. D. 1922 at 11 o'clock A.M.  
MT  
County Clerk and Recorder  
S7 9 Deputy







File No.

FEB 14 1967

County Flathead

DUPLICATE

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Top of Ground  
(Elev. above sea level)

0 to 22 ft Sandy silt  
22 to 54 ft Grey clay  
54 to 134 ft Hard pan  
134 to 136 ft  
Waterbearing  
sand and gravel.

Notice of Completion of Groundwater  
Appropriation by Means of Well

(Under Chapter 257, Montana Session Laws, 1961)

Owner E. K. County Address Columbus Falls, Mont

Driller Olsen & Justice Address Col. Falls, Mont

Date of Notice of Appropriation of Groundwater None filed

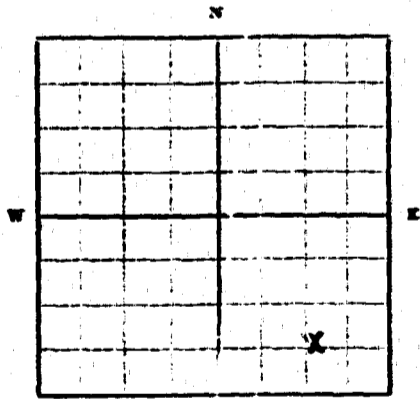
Date well started July 6 - 1966 Date Completed July 13 - 66

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 3/8	7" 00 23 lbs per ft	0	136	none		



T-5 CR  
M.W. 1/4 SE 1/4 Sec. 20 T. 30. R. 20  
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 66 feet.

Shut-in Pressure for Flowing Well non flowing

Pumping Water Level 110 feet at 1.0 gal. per minute.

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

How Tested Bailer Length of Test 3 hrs

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)

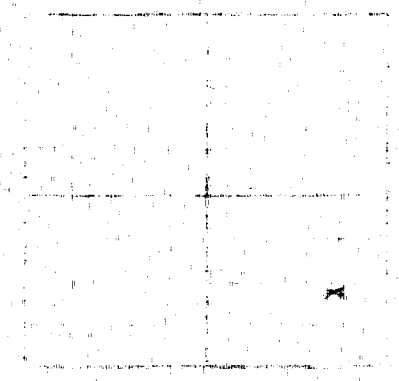
Driller's License Number 55  
George Justice  
Driller's Signature

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 School of Mines and Quadruplicate for the Appropriator.

12,665



STATE OF MONTANA  
COUNTY OF FLAKEHEAD

Filed on the 3 day of Feb  
A. D. 1967 at 10 o'clock AM

Glenn  
County Clerk and Recorder

By [Signature] Deputy

Notary Public  
State of Montana  
My Commission Expires  
[Illegible]

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

RECEIVED GW 2

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

County Ft. Head

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater  
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner Jake Worrel Address Rt-1-A Col. Falls.

Driller WEBER DRILLING Address Col. Falls.

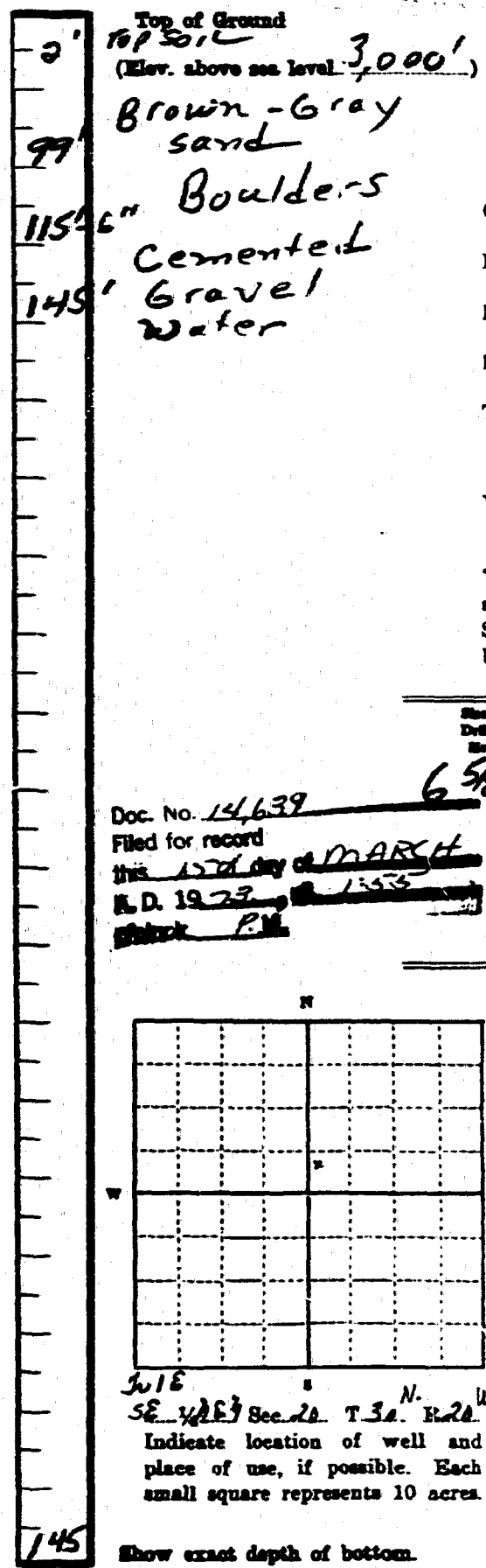
Date of Notice of Appropriation of Groundwater \_\_\_\_\_

Date well started 7-10-71 Date Completed 7-15-71

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

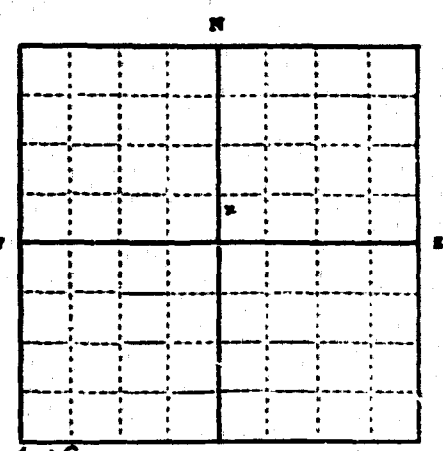
Water Use: Domestic  Municipal  Other  Irrigation   
Industrial  Drainage  Stock

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	From (Feet)	To (Feet)
6 5/8" O.D.	6 5/8" O.D. 2802 wall	0	145'	NONE		

Doc. No. 14,639  
Filed for record  
this 15th day of MARCH  
A.D. 1971  
at Butte MT.



1/16  
SE 1/4 Sec 20 T 30 N. R 20 W.  
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Static Water Level for non-flowing Well 65 feet.

Shut-in Pressure for Flowing Well NONE

Pumping Water Level 110 feet at 25 gal. per minute.

Discharge in gal. per min. of flowing well NONE

How Tested Bailed Length of Test 2 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation) Open Bottom

181  
Driller's License Number  
Jerome J. Weber  
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.

52,683

14639

STATE OF MONTANA )  
COUNTY OF FLATHEAD, SS

Filed on the 15<sup>th</sup> day of March  
A.D. 1918 at 1<sup>st</sup> o'clock P.M.

M. J.  
County Clerk and Recorder

By [Signature]  
Deputy

FILED  
MAR 15 1918  
CLERK



14,760

STATE OF MONTANA )  
COUNTY OF FARMHEAD ) SS

Filed on the 25<sup>th</sup> day of June  
A. D. 1973 at 2:30 o'clock P.M.

SM T  
County Clerk and Recorder

By L. L. W.  
Deputy

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

GW 2

T. 200 R. 100

County Blotched

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater  
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner E. L. Brown Address Columbia Falls  
Driller Olson & Justice Address Columbia Falls, Mont

Date of Notice of Appropriation of Groundwater none filed  
Date well started Aug 6-68 Date Completed Aug 12-68

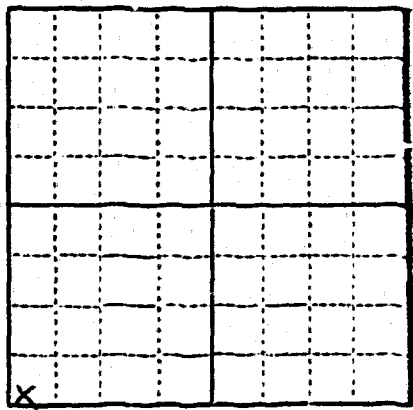
Type of well drilled Equipment Used Churn  
(aug, driven, bored or drilled) (Churn, drill, rotary or other)

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.

Top of Ground  
(Elev. above sea level \_\_\_\_\_)  
0 to 10 ft open hole.  
10 to 15 ft. Silt  
15 to 82 ft clay  
with some gravel.  
82 to 168 ft  
Gray hard pan.  
168 to 174 ft  
Brown hard pan.  
Deep water  
174 to 175 ft  
waterbearing  
gravel + Silt.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind	From (Feet)	To (Feet)
6 3/8"	7" O.D. 23 lb	5	175	none		



SW 1/4 Sec 21 T. 200 R. 100  
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 90 feet.

Shut-in Pressure for Flowing Well non-flowing

Pumping Water Level 110 feet at 20 gal. per minute.

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

How Tested Bailer Length of Test 2 hrs

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)

all measurements from ground surface

no 55  
Driller's License Number

Olson & Justice  
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.

44,647

13871

STATE OF MONTANA }  
COUNTY OF FLATHEAD } SS

Filed on the 26 day of Aug  
A. D. 1968 at 11:55 o'clock P.M

per  
County Clerk and Recorder

By [Signature]  
Deputy



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

GW 4

T 20 N R 20 W 21

County \_\_\_\_\_

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

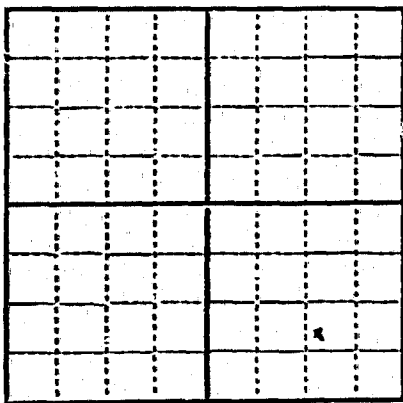
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED  
JAN 6 1964

STATE ENGINEER

1. Allan R. Hickey, Sr. of Route 1-8, Columbia Falls  
(Name of Appropriator) (Address) (Town)  
County of Flathead State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4, Sec. 21, T. 36, R. 20

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 is for house water and irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been September of 1956, has been used continuously since that time.

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 approx. 1/2 acre, garden and lawn on same property.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal shallow well, 26 feet deep with a 2 inch casing and 1/2 H.P. pump, capacity 1070 gallons an hour.

7. The date of commencement and completion of the construction of the well, wells or other works for withdrawal of groundwater August 15 thru September 7, 1956

8. The depth of water table 15 to 26 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Not applicable.

10. The estimated amount of groundwater withdrawn each year 950,000 gall/yr

11. The log of formations encountered in the drilling of each well if available only formation here is sand 'til we hit a layer of peat gravel, under which lies a clay, at 26'

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 Have it this information.

Signature of Owner Allan R. Hickey, Sr.  
for use & Hickey  
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.

22831

10 76B

STATE OF MISSISSIPPI  
COUNTY OF FLORISSIPPI

Filed on the 31 day of Dec  
A. D. 1963 at 9:28 o'clock A.M.

*[Signature]*  
County Clerk and Recorder

*[Signature]*  
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 Darwin Hamilton

Address 205 Woodland Ave.

Kalispell, Montana

Date well started 4/28/72

completed 5/3/72

Type of well Billed

Equipment used Air Rotary

Water Use: Domestic  Municipal  Stock  Irrigation

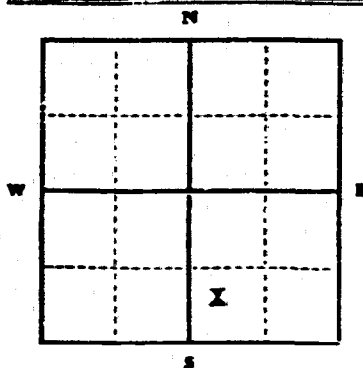
Industrial  Drainage  Other \* Garden/Lawn

\*Describe

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

ESTIMATED ANNUAL WITHDRAWAL 31,269,000 gallons

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
8"	8 5/8" OD x 1/2"	+2'	226'	NONE		



SW 1/4 SE 1/4 Sec. 21  
T. 30 N. R. 20 E.  
S. W.

Static water level 70 ft.  
Pumping water level 184 ft.  
at 65 gallons per minute,  
measured 240 minutes after pumping  
began.

\*Measured from ground level.  
Well developed by Air Lift Pump  
for 4 hours.  
Power Diesel Pump 150 HP  
Remarks: (Gravel packing, cementing,  
packers, type of shutoff) All water  
entering well through gravel  
below 226 feet. Wells in  
this area can be depended  
upon to produce clear sand

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

Driller's Signature Walter Adams  
Liberty Drilling Co.

Driller's Address Route 2

Kalispell, Montana LICENSE NO. 52

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 APPROX (Elev. above sea level) 3050


From (Feet)	To (Feet)	Description
0	2	Topsoil
2	9	Tan sandy silt
9	13	Yellow silty sand and gravel. Some water
13	113	Tan silty clay
113	118	Boulders and cobbles embedded in tan silty clay
118	154	Gravel embedded in tan silty clay
154	157	Boulders and cobbles
157	166	Gravel mixed in tan silt
166	169	Boulders and cobbles mixed in tan silty sand
169	193	Very silty sand, gravel and cobbles
193	197	Cobbles and boulders mixed in tan silt
197	221	Very silty sand, gravel and cobbles
221	224	Gravel and cobbles with some fine silty sand
224	241	Clean coarse gravel and cobbles. Water

241 Show exact depth of bottom  
Water rises in well 70 feet from  
surface.

51,259

free water year after year as long as they are not overpumped, i.e., they should be pumped at rates not in excess of 60 percent of the tested capacity of the aquifer.

14,475

STATE OF MONTANA } 82  
COUNTY OF FLATHEAD }  
Filed on the 14<sup>th</sup> day of Aug  
A. D. 19 22 at 1:45 o'clock P. M.  
BY  Deputy  
County Clerk and Recorder



14,761

STATE OF MONTANA }  
COUNTY OF FLATHEAD } SS

Filed on the 28<sup>th</sup> day of June  
A. D. 1973 at 2<sup>nd</sup> District of M

M. J.  
County Clerk and Ex-Officio

By

L. L.  
Deputy







✓  
2

14,636

STATE OF MONTANA }  
COUNTY OF FLATHEAD } SS

Filed on the 13 day of May  
A. D. 1922 at 10:30 o'clock A

M. I.  
County Clerk and Recorder

By [Signature]  
Deputy

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)

R#14

Top of Ground  
(Elev. above sea level \_\_\_\_\_)

0 to 15 ft open hole.  
18 to 87 ft Gray silt.  
87 to 115 ft clay with  
some gravel.  
115 to 132 ft Gray  
hard pan.  
137 to 156 ft Brown  
hard pan. Deep water  
156 to 158 ft  
Waterbearing  
gravel and sand

Owner: Robert C. Harner Address: Columbia Falls Road

Driller: Charles J. Justice Address: Columbia Falls Road

Date of Notice of Appropriation of Groundwater: None filed

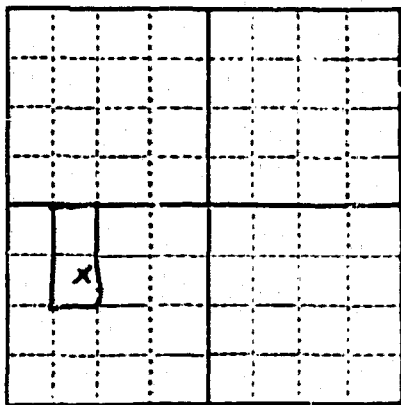
Date well started: June 12 - 65 Date Completed: June 18 - 68

Type of well: Drilled Equipment Used: Churn  
(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.

Diameter of Well (Inches)	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind and Size	From (Feet)	To (Feet)
6 3/8"	7" C.O. 25 lbs per ft	6	158	None		



SW 1/4 Sec 21 T30N R20W  
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: 12 feet

Shut-in Pressure for Flowing Well: non-flowing

Pumping Water Level: 105 feet at 20 gal per minute.

Discharge in gal per min. of flowing well: non-flowing

How Tested: Backer Length of Test: 3 hrs

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)

all measurements from existing ground level

71055

Driller's License Number

Charles J. Justice  
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.

47,628

13826

STATE OF MONTANA }  
COUNTY OF FLATHEAD } ss

Filed on the 12 day of July  
A.D. 1968 at 2:10 o'Clock PM

Pem

County Clerk and Recorder

By

[Signature]

Deputy

File No. 21

GW 4

T. 20. N. R. 20. W. E. 1  
County Blaine  
**RECEIVED**

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

APR 16 1963

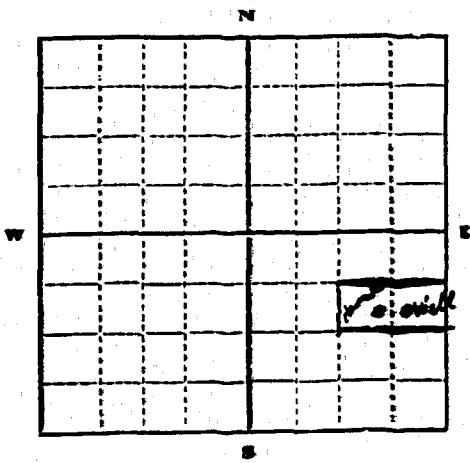
ASSISTANT  
STATE ENGINEER

**Declaration of Vested Groundwater Rights**

(Under Chapter 237, Montana Session Laws, 1961)

I, Bruce J. Livingston, of Rte. 1 A Columbia Falls  
(Name of Appropriator) (Address) (Town)

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



Section 7-1AEB 21 30 20  
1/4 Sec. 7 R. 20

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

- The beneficial use on which the claim is based Home, garden lawn and stock
- Date or approximate date of earliest beneficial use; and how continuous the use has been When homesteaded, 50 years or more
- The amount of groundwater claimed (in miner's inches or gallons per minute) 10 gal.
- 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 other than specified
- The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Well 500 ft. from house, east. Electric pump, pressure tank.
- The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Electric pump installed 1945
- The depth of water table 10 feet
- 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 Dug well 3 ft. diameter, 10 foot depth from floor of pump house
- The estimated amount of groundwater withdrawn each year 1 50,000 gals.
- The log of formations encountered in the drilling of each well if available Dug in glacial deposit gravel
- 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 as listed above under pit of appropriation

Signature of Owner Bruce J. Livingston  
Date Apr. 4, 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.