



14,793

STATE OF MONTANA

COUNTY OF FLATHEAD

Filed on the 21 day of July  
A.D. 1913 at 12:15 o'clock PM

MJ

County Clerk and Recorder

By ASV

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

1. Leonard L. Leeman of Route 1B 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:

Sec. 7


1/4 Sec. 7 T30N R.20W

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

- 2. The beneficial use on which the claim is based Domestic and irrigation
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been about 1900
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) 100 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 Two acres in E 3/4 of SW 1/4 of Sec. 7, T. 30 N., R. 20 W. Owner is Leonard L. and Ellen M. Leeman
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Well with electric pump
- 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 6" casing
- 10. The estimated amount of groundwater withdrawn each year Five Million gallons
- 11. The log of formations encountered in the drilling of each well if available None available
- 12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.

Signature of Owner [Signature]  
Date December 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 Quaduplicate for the Appropriator.

10447

STATE OF OHIO  
COUNTY OF [unclear]

Filed on the [unclear] day of [unclear]  
A. D. 1963 at [unclear] o'clock P. M.

*Glen E. McChesney*  
County Clerk and Recorder

By *Keith*  
Deputy

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

GW 2 RECEIVED T 30N R 20W  
MAY 29 1962 County Flathead

STATE OF MONTANA  
ADMINISTRATION 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 63 ft Sandstone  
63 to 118 ft Gray hardpan  
118 to 128 ft Brown hardpan  
128 ft. to 129 ft. Waterbearing gravel + sand

Owner William Long Address Col. Falls, Mont.

Driller Robert Jackson Address Col. Falls, Mont.

Date of Notice of Appropriation of Groundwater none filed

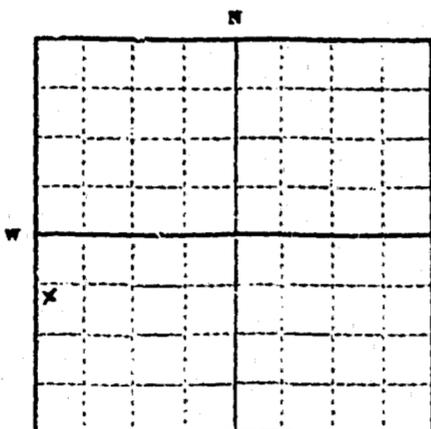
Date well started Sept. 20-62 Date Completed Sept. 25, 1962

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 lbs per ft.	0	129	none		



SW 1/4 Sec. 7 T. 30N 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 7.0 feet.

Shut-in Pressure for Flowing Well non-flowing

Pumping Water Level 9.0 feet at 1.0 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)

70.55  
Driller's License Number  
Robert Jackson  
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.

9138

STATE OF MONTANA  
COUNTY OF FLAHSAD  
Filed on the 1 day of May  
A. D. 1917 at 10<sup>00</sup> o'clock P. M.  
J. E. M.  
Clerk and Recorder  
By *[Signature]* Deputy

County Glacier 7

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 E. J. Sundstrom  
Address Route 40  
Columbia Falls, Mont.  
Date well started April 24-72  
completed April 26-72

For Administrator's Use	
File	<u>14,505</u>
Date	<u>June 7, 1972 - 2:44 p.m.</u>
GW #	

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

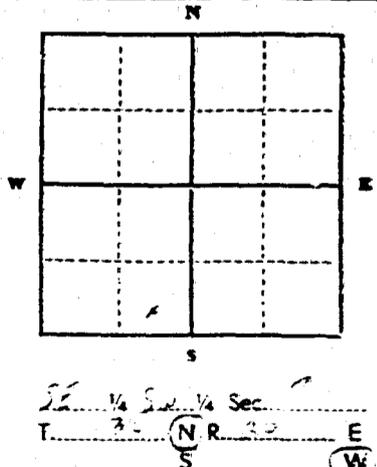
Water Use: Domestic  Municipal  Stock  Irrigation   
Industrial  Drainage  Other \* Garden/Lawn

\*Describe Trailer Court.

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

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind	From (Feet)	To (Feet)
<u>6 5/8"</u>	<u>7" 00. 23 lbs</u>	<u>0</u>	<u>97</u>	<u>none</u>		



Static water level 47 ft.\*  
Pumping water level 52 ft.\*  
at 30 gallons per minute,  
measured \_\_\_\_\_ minutes after pumping began.  
\*Measured from ground level.  
Well developed by Bailing  
for 3 hours.  
Power \_\_\_\_\_ Pump \_\_\_\_\_ HP  
Remarks: (Gravel packing, cementing, packers, type of shutoff)

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

Driller's Signature E. J. Sundstrom  
Driller's Address Columbia Falls, Mont.

LICENSE NO. 224

DRILLER'S LOG

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

Top of Ground (Elev. above sea level)		
From (Feet)	To (Feet)	
<u>0</u>	<u>48</u>	<u>Sandy Silt</u>
<u>48</u>	<u>85</u>	<u>gray hard sand</u>
<u>82</u>	<u>90</u>	<u>greenish clay and deep water</u>
<u>90</u>	<u>97</u>	<u>water bearing gravel and sand</u>

97 Show exact depth of bottom

#14,505

STATE OF MONTANA } SS  
COUNTY OF FLATHEAD

Filed on the 7 day of Sept  
A. D. 1924 at 2:45 o'clock P. M.

GEM  
County Clerk and Recorder

By A. H. H.  
Deputy

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

GW 2

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

County Glacier

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. J. Foundation Address Columbia Falls, Mont.

Driller Shawn & Justin Address Columbia Falls, Mont.

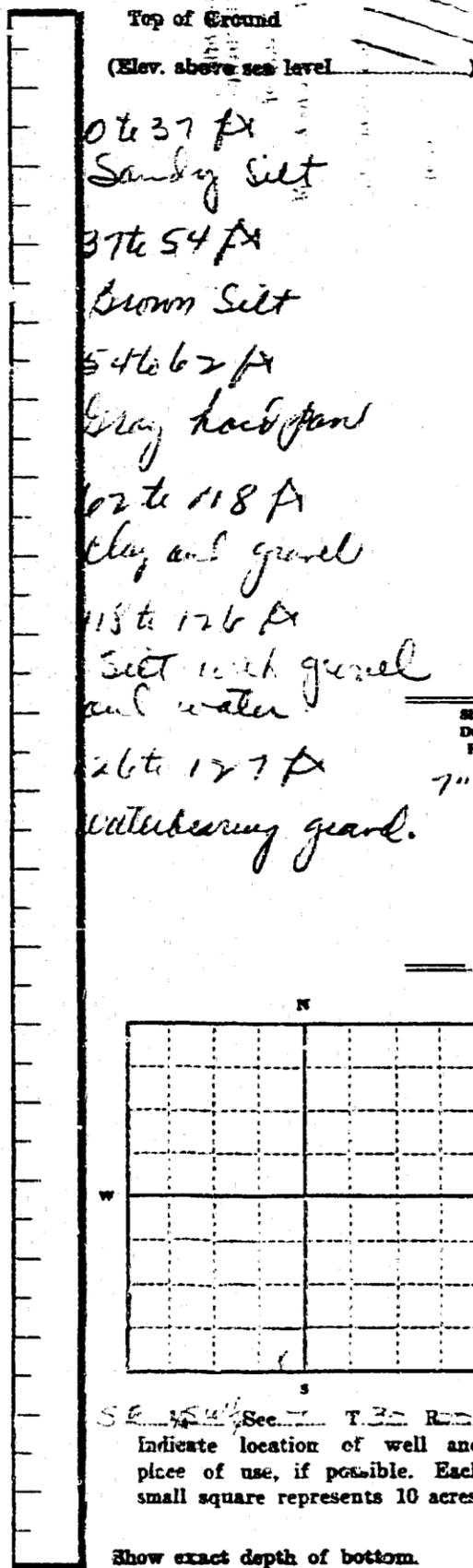
Date of Notice of Appropriation of Groundwater now filed

Date well started June 23-64 Date Completed June 26-64

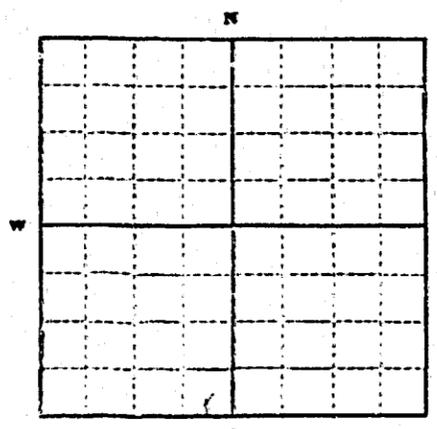
Type of well Drilled Equipment Used Churn  
(Aug. drive, bored or drilled) (Churn, drill, rotary or other)

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		
				Depth (Feet)	From (Feet)	To (Feet)
7"	7" O.D. 33 lbs per ft	0	127			none



SE 1/4 Sec. 7 T. 30 R. 10  
Indicate location of well and piece 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 90 feet at 15 gal. per minute.

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

How Tested Jump Length of Test 6 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)

71155  
Driller's License Number

Shawn & 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 Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

44102

13359

STATE OF MONTANA }  
COUNTY OF FLATHEAD } ss

Filed on the 25 day of Apr  
A.D. 1969 at 1:25 o'clock PM

\_\_\_\_\_  
County Clerk and Recorder

By \_\_\_\_\_ Deputy

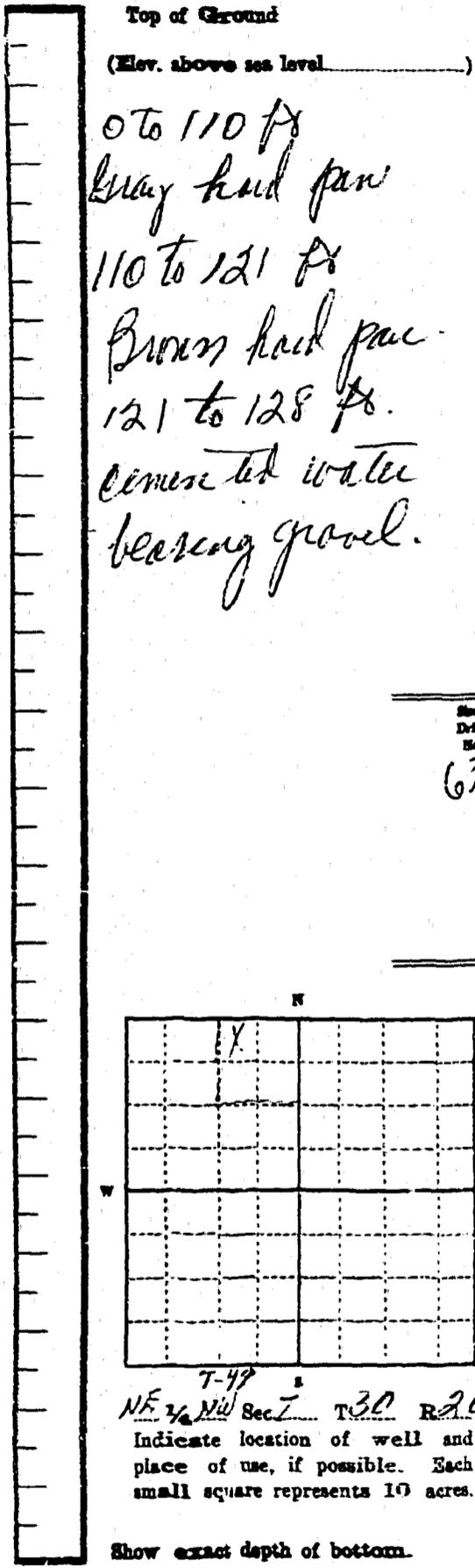
File No. \_\_\_\_\_ Doc. No. 14108  
 Filed for record GW 2  
 this 11 day of Feb  
 A.C. 19 70, at 1:55  
 o'clock P M.

T. 30 R. 20  
 County Flathead

STATE OF MONTANA  
 ADMINISTRATOR OF GROUNDWATER CODE  
 OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater  
 Appropriation by Means of Well

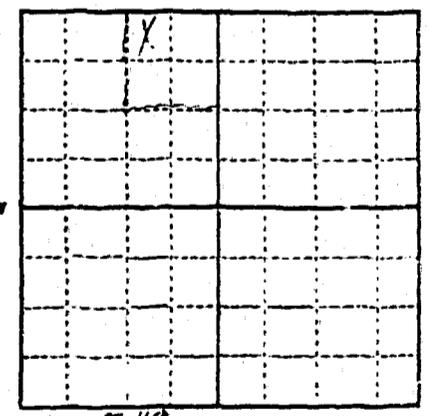
(Under Chapter 237, Montana Session Laws, 1961)



Owner Wain D McCall Address \_\_\_\_\_  
 Driller Allen & Justin Address Columbia Falls Mont.  
 Date of Notice of Appropriation of Groundwater now filed  
 Date well started April 23 68 Date Completed April 28 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.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind	From (Feet)	To (Feet)
<u>3/8"</u>	<u>7" O.D. 23 lbs per ft</u>	<u>0</u>	<u>128</u>	<u>none</u>		



T-47  
NE 1/4 Sec 7 T30 R20  
 Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Static Water Level for non-flowing Well 109 feet.  
 Shut-in Pressure for Flowing Well non-flowing  
 Pumping Water Level 101 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 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  
George J. 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 Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

14108

STATE OF MONTANA  
COUNTY OF FLATHEAD

Filed on the 4 day of *Feb*  
A. D. 1970 at 1:55 o'clock P. M.

*SEM*  
County Clerk and Recorder

By *Jed*  
Deputy

MONTANA WATER RESOURCES BOARD  
RECEIVED

APR 7 1970



14,604

STATE OF MONTANA ) SS  
COUNTY OF FLATHEAD )  
Filed on the 22 day of Jan  
A. D. 19 23 at 4:30 o'clock P M  
M J  
County Clerk and Recorder  
By C. J. N. Deputy

JUL 8 1966

GW 2 NEWS

F. No.

Site \_\_\_\_\_  
Elevation \_\_\_\_\_  
County \_\_\_\_\_  
Code \_\_\_\_\_  
Destination \_\_\_\_\_  
District \_\_\_\_\_

T. 34 R. 20  
County Flathead

TRIPPLICATE

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level)

0 to 10 ft Sandy Silt.

10 to 88 ft silt

88 ft to 120 ft

Clay with some gravel.

120 to 150 ft much fine sand and gravel deep water.

150 to 223 ft Brown hard pan  
223 to 224 ft

Waterbearing gravel & sand.

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

(Under Chapter 237, Montana Session Laws, 1961)

Owner Leo P. Petrosch Address Col. Falls Mont

Driller Olsen & Justen Address Col. Falls Mont

Date of Notice of Appropriation of Groundwater None filed

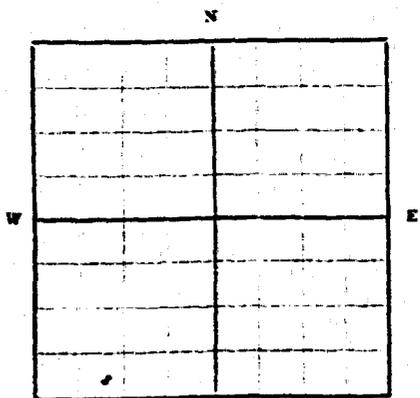
Date well started April 28-66 Date Completed May 6-66

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" O.D. 23 lbs per ft	0	224	none		



T34N Sec 7 T30R20

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 130 feet at 15 gal. per minute.

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

How Tested Gauger 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)

7025  
Driller's License Number  
Olsen & Justen  
By George J. Justen  
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.

41207

12 240

30 June  
66 355  
12:11  
B

12



free water year after year as long as they are not overpumped.  
i.e., they should be pumped at rates not in excess of 70 to 80  
percent of the tested capacity of the aquifer

14,755

STATE OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
FOR THE BOARD OF WATER CONTROL  
APPROVED: *[Signature]*  
DATE: *7/11/83*  
BY: *[Signature]*  
TITLE: *[Signature]*

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.

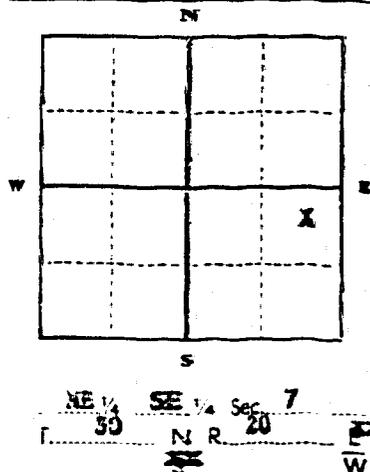
Owner Timbrook Lumber Co.  
Address 4th Ave. & Railroad St.  
Columbia Falls, Montana 59912  
Date well started 4/19/73  
completed 4/13/73  
Type of well Drilled  
Equipment used Air Rotary  
Water Use: Domestic  Municipal  Stock  Irrigation   
Industrial:  Drainage  Other  Garden/Lawn

For Administrator's Use  
File 141,756  
4/19/73  
GW 1 1:30 p.m.

\*Describe  
USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition). To supply water for new particle board plant.

ESTIMATED ANNUAL WITHDRAWAL 175,000,000 gallons

Size of Drilled Hole	Size and Weight of Casing	Feet (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
8"	8 5/8" OD x .277	0-2	164'	Mills Knife	142'	162'



Static water level 88'6" ft.\*  
Pumping water level 135 ft.\*  
at 530 gallons per minute,  
measured 90 minutes after pumping  
began.  
\*Measured from ground level.  
Well developed by air surge  
for eight hours.  
Power: Diesel Pump 150 HP  
Remarks: (Gravel packing, cementing,  
packers, type of shutoff) All water  
entering well thru perforations  
in casing. Wells in this  
area can be depended upon to  
produce clear sand. (CONT.)

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

Driller's Signature [Signature]  
Driller's Address LIBERTY DRILLERS & PUMP CO.

KATSPILL, MONTANA 59901 LICENSE NO. 52

County Flathead

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 App. 21. (Elev. above sea level) 3000

From (Feet)	To (Feet)	Well #1
0	8	Land FILL.
8	6	Topsoil.
6	44	Tan clay with gravels.
44	136	Tan sandy clay with some gravel & cobbles.
136	158	Fine sand & gravel. Some sandy water.
158	164	Clean coarse sand & gravel. Water total 300 gpm.
164	168	Sand & gravel in tan silty clay. Some silty water.
168	173	Fine sand & gravel. Some sandy water.
173	184	Gravel mixed in tan silty clay.

184' Show exact depth of bottom

54050

free water year after year as long as they are not overpumped,  
i.e., they should be pumped at rates not in excess of 70 to  
80 percent of the tested capacity of the aquifer.

14756

73 20 130  
J. W. D.  
73 20 130  
J. W. D.

RECEIVED

F. No.

County Flathead

TRIPPLICATE

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level 2782)

Notice of Completion of Groundwater  
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

2 ft Top soil  
Large boulders  
Gravel  
12 ft  
Gravel, cobbles  
23 ft  
Brown sandstone  
Cobbles  
27 ft  
Brown sandstone  
71 ft  
Yellow sandstone  
with cobbles  
172 ft  
Coarse sand  
With water

Owner Gay L. Rowl Address Clankin Falls

Driller James McClarty Address 945 5th St NW

Date of Notice of Appropriation of Groundwater

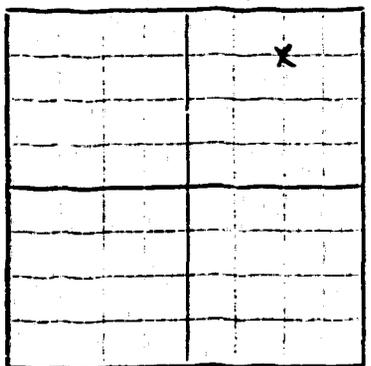
Date well started Sept 10/67 Date Completed Oct 12/67

Type of well Artesian Equipment Used 2 1/2" Brown  
(dug, driven, bored or Churn, drill, rotary or  
drilled) 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" O.K.	2 3/4"		175			



NE 1/4 Sec 7 T 30 R 20

Indicate location of well and place of use, if possible. Each small square represents 10 acres.

177 ft  
Show exact depth of bottom.

Static Water Level for non-flowing Well 142 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 139 feet at 15 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Trailer 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)

18  
Driller's License Number  
James McClarty  
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.

13,026

18 day of Oct  
67 at 4<sup>th</sup> o'clock P M  
SEM  
County Clerk and Recorder  
M.

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

MONTANA WATER RESOURCES BOARD

RECEIVED

T 30N R 20W

JUL 25 1969

County Hathead

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level 3066)

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

(Under Chapter 237, Montana Session Laws, 1961)

0 to 110 ft Gray hard pan  
110 to 134 ft Brown hard pan  
134 to 152 ft Brown hard pan with seep water  
152 to 153 ft. Waterbearing gravel & sand.

Owner State Mining Comm Address Columbia Falls Mont.

Driller Olson & Justen Address Col Falls Mont.

Date of Notice of Appropriation of Groundwater none filed

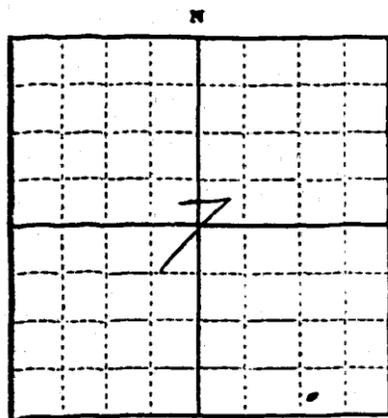
Date well started June 20 - 69 Date Completed June 25 - 69

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 Size	From (Feet)	To (Feet)
6 3/8"	7" O.D. 23 lb.	0	153	none		



SE 1/4 Sec. 7 T 30N 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 70 feet.

Shut-in Pressure for Flowing Well non flowing

Pumping Water Level 100 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 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 no 55  
Driller's Signature Olson & Justen

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.

45-467

14020

STATE OF MONTANA | SS  
COUNTY OF FLATHEAD

Filed on the 18 day of July  
A. D. 1967 at 10:50 o'clock PM

County Clerk and Recorder

By \_\_\_\_\_  
Deputy

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

GW 4

T 30 N 20 W

County \_\_\_\_\_

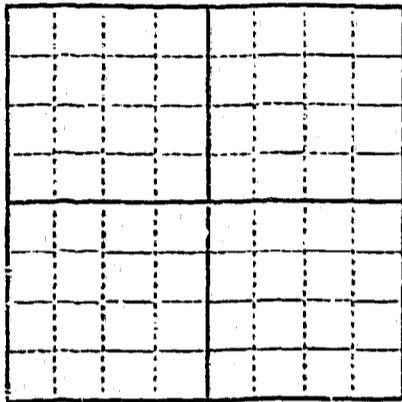
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED  
JAN 8 1964  
STATE ENGINEER

1. Muriel P. Tyro of Rt. 1 B 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:



S 1/4 Sec 7 T30 N R 20 W

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, Livestock and garden
3. Date or approximate date of earliest beneficial use; and how continuous the use has been Date is not known to present owner. Well dug and used by homesteader
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 5 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 Pumped-About 4 acres garden and pasture, according to old ditches.
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Pumped-S 1/4 Sec. 7 T30 N R 20 W
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Date is not known to present owner
8. The depth of water table 40 feet and about 160 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 Dug well 4 x 4 x 40 feet deep. Cylinder pump
10. The estimated amount of groundwater withdrawn each year Not known
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 Original well dug by homesteader- saved this summer- contemplate drilling well to re-ill it this coming year.

Signature of Owner Muriel P. Tyro

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 QuatriPLICATE for the Appropriator.

10482

STATE OF MICHIGAN  
COUNTY OF WAREHOUSING

Filed on the 30 day of Dec  
A.D. 1963 at 2:00 Clock P.M.

*Glenn E. Millhouse*  
County Clerk and Recorder

By *Clutch* 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.

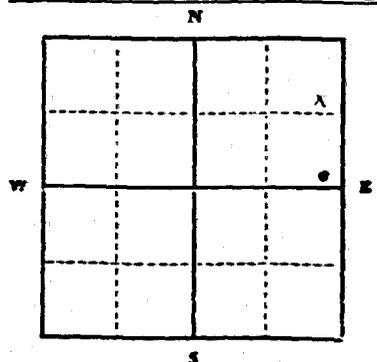
Owner Frank Wyman  
Address Box 903  
Columbia Falls Mont  
Date well started Sept 10-71 GW 1  
completed Sept 16-71  
Type of well Drilled  
(Dig, driven, bored or drilled)  
Equipment used Churn  
(Churn drill, rotary or other)  
Water Use: Domestic  Municipal  Stock  Irrigation   
Industrial  Drainage  Other \* Garden/Lawn

For Administrator's Use  
File 14,342  
November 9, 1971  
9 13 AM

\*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 45,000 gal

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind	From (Feet)	To (Feet)
<u>6 3/8</u>	<u>2 3/8 7" RD</u>	<u>0</u>	<u>157</u>	<u>None</u>		



NE 1/4 NE 1/4 Sec 7  
T. 30 N R. 20 B. 3 W

Static water level 133 ft.\*  
Pumping water level 134 ft.\*  
at 20 gallons per minute,  
measured \_\_\_\_\_ minutes after pumping began.  
\*Measured from ground level.  
Well developed by churning  
for 2 hours.  
Power PPL Pump 1 1/2 HP  
Remarks: (Gravel packing, cementing, packers, type of shutoff) \_\_\_\_\_

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE. EACH SMALL SQUARE REPRESENTS 40 ACRES.  
Driller's Signature George J. Justice  
Driller's Address \_\_\_\_\_

LICENSE NO. 55

County Flathead

DRILLER'S LOG

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

Top of Ground		(Elev. above sea level)
From (Feet)	To (Feet)	
<u>0</u>	<u>65</u>	<u>gray hard pan with sandstone</u>
<u>65</u>	<u>137</u>	<u>Brown hard pan</u>
<u>137</u>	<u>156</u>	<u>Brown hard pan with deep water</u>
<u>156</u>	<u>157</u>	<u>Water bearing gravel and sand</u>

157 Show exact depth of bottom

19367

14,342

STATE OF MONTANA } SS  
COUNTY OF FLATHEAD }

Filed on the 9 day of Nov  
A. D. 1941 at 9:12 o'clock AM

[Signature]  
County Clerk and Recorder

By [Signature]  
Deputy

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

GW 2

T. 30 N R20W Sec 8

County Flathead

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 87 ft.  
Hard pan, boulders  
and cemented gravel.*

*81 to 88 ft.  
Water bearing  
gravel & sand.*

Owner Andrew Gunderson Address Box 579, Columbia Falls, Montana

Driller Olson & Justice Address Col. Falls, Mont.

Date of Notice of Appropriation of Groundwater none filed

Date well started April 12 - 65 Date Completed April 15 - 1965

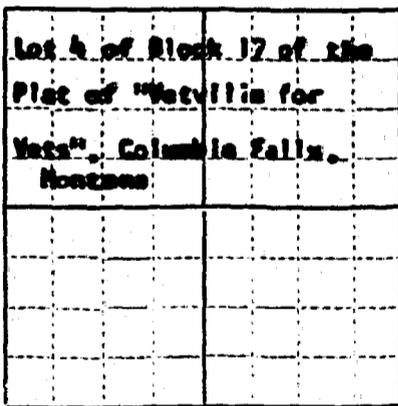
Type of well Drilled Equipment Used Churn  
(dug, driven, bored or drilled) (Churn, drill, rotary or other)

Water Use: Domestic  Municipal  Other  Irrigation   
Industrial  Drainage  Stock

STATE WATER CONSERVATION BOARD

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	Depth	Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
						Kind	From (Feet)	To (Feet)
		6 3/8	23 lbs per ft 7" O.D.	0	88	none		



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

Show exact depth of bottom.

Static Water Level for non-flowing Well 63 feet.

Shut-in Pressure for Flowing Well none flowing

Pumping Water Level 69 feet at 20 gal. per minute.

Discharge in gal. per min. of flowing well none flowing

How Tested Bailer Length of Test 1 hr

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

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.

*Feb 75*

12,007

M  
order

15  
66-1-25  
J. E. M.  
D. J.

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

GW 2

T-011 R20W Sec 8

County Fleethed

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 99 ft  
brown hard pan.

99 to 105 ft  
waterbearing  
gravel.

Cemented gravel.

Owner Jack Curtis Address Columbia Falls Mont

Driller Alpen & Justin Address Col Falls Mont

Date of Notice of Appropriation of Groundwater none filed

Date well started Aug 1-68 Date Completed Aug 6-68

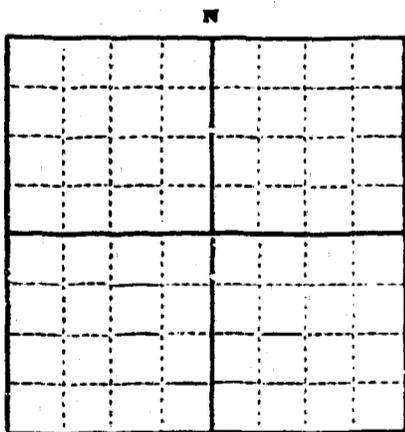
Type of well drilled Equipment Used Churn  
(dug, driven, bored or drilled) (Churn, drill, rotary or other)

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.

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	105	none		

Lot 1 Block 20  
Vetville



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

Show exact depth of bottom.

Static Water Level for non-flowing Well 83 feet.

Shut-in Pressure for Flowing Well non-flowing

Pumping Water Level 84 feet at 20 gal. per minute.

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

How Tested Railer 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)

710 55

Driller's License Number  
Alpen & 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 Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

44,643

13852

STATE OF MONTANA }  
COUNTY OF FLATHEAD } SS  
Filed on the 20 day of Aug  
A.D. 19 68 at 2<sup>00</sup> o'clock P.M  
Jem  
County Clerk and Recorder  
By Jem Deputy

File No.

County Flathead

DUPLICATE

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)

0 to 76 ft Brown hard pan.  
76 to 89 ft cemented  
gravel & hard pan  
deep water.  
89 to 90 ft  
Water bearing  
gravel & sand.

Owner Alphonse Toledano Address Columbia Falls

Driller Oliver J. Gusten Address Col. Falls

Date of Notice of Appropriation of Groundwater none filed

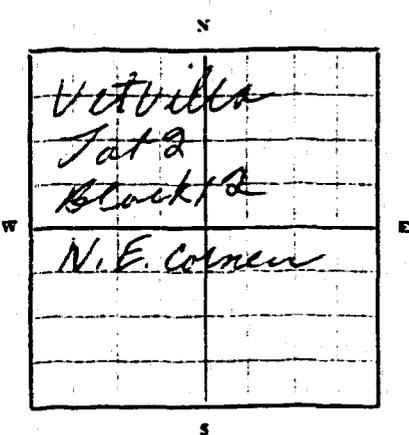
Date well started Feb 9-66 Date Completed Feb 14-66

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 5/8	7" CD 22 lbs per ft	0	90	<u>none</u>		



Static Water Level for non-flowing Well 70 feet.

Shut-in Pressure for Flowing Well non flowing

Pumping Water Level 72 feet at 20 gal. per minute.

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

How Tested Leak 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)

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

Show exact depth of bottom.

70 55

Driller's License Number  
Oliver J. Gusten  
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.

40677

12, 12 2

4 March  
66 232 2:30 P.M.  
Gen  
JDT  
Secretary

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

GW 4

T 30 N R 20 W  
County Flathead  
R  
JAN 9 1964

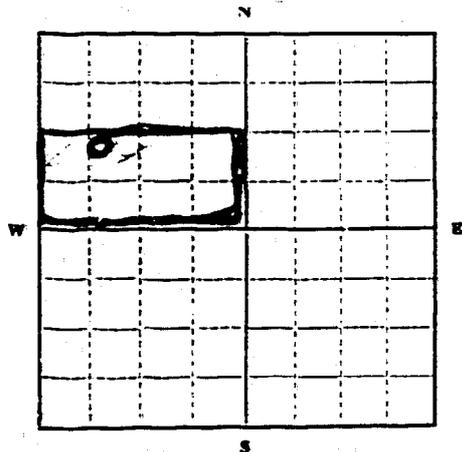
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

I Edward M Boyles 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:



S 1/2 Sec 8 T30N R. 20W

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 Community of "Vetville for Vets" 11.95 acres

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Continuous from Sept. 1948 with, and pump; - from July 1951 with etc. in driven discharge jet pump

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 25 gal. per min; 1500 per hour

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Jet pump. Well located on lot 4 of Block 7 plat of Vetville for Vets

7. The date of commencement, and completion of the construction of the well, wells, or other works for withdrawal of groundwater Well completed 1948 for hand pump. Improved in 1951 for jet pump. Drilled in 1958 because of low water

8. The depth of water table 94 feet, Feb 1958 and at this date, 1967

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 109 feet 7 1/2 inch casing and jet pump in concrete well pit 8 feet under surface of ground.

10. The estimated amount of groundwater withdrawn each year Supplying 7 double furrows and gardens each on 150x150 foot lots.

11. The log of formations encountered in the drilling of each well if available First 25 feet of drilling in 1948 was in hard pan (cement like formation) and balance in heavy 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 Total depth from ground surface was 98 feet in 1948; water table 76; and total jet pump water 270 Drilling by Davis Drilling Co. Columbia Falls, Mont.

E M Boyles, Trustee E M Boyles, Trustee  
Signature of Owner  
Dec. 20, 1967 Date Dec. 20, 1967

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.

19276

10,188

STATE OF MONTANA SS  
COUNTY OF HATHEAD SS

Filed on the 26 day of Dec  
A. D. 1963 at 10:30 o'clock A. M.

J. E. M.  
County Clerk and Recorder

By \_\_\_\_\_  
Deputy

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

GW 4

T. 30 N. 20 W.  
County Flathead

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

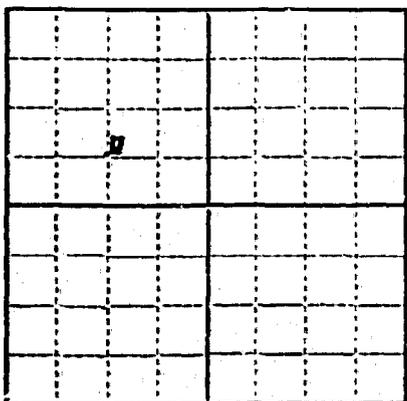
RECEIVED  
AUG 21 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Edmer J. Butson & Julia Britton 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:



N.W. 1/4 Sec. 8 T20N 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 house hold lawn + garden
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been Jan 12 - 1960 each day for house hold use and garden + lawn
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) do not know approximately 10 gallon 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 we do not farm. we have just a lot in Nat. Park Community lot 3. Block 12. lot 150x150
- 6. The means of withdrawing such water from the ground and the location of each well, or other means of withdrawal pressure 40' submersible pump Mt. Vill

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. began drilling Nov 9 1959 - Jan 12 - 1960  
Completion of well and works.

8. The depth of water table. 23 feet at completion

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. 95 feet  
Size of casing 6 in

10. The estimated amount of groundwater withdrawn each year. no water used 225,000 gal.

11. The log of formations encountered in the drilling of each well if available. do not know

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 Edmer J. Butson  
Julia Britton  
Date 8-13-1963

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 Quaduplicate for the Appropriator.

9827

STATE OF MONTANA )  
COUNTY OF FLATHEAD ) SS

Filed on the 3 day of August  
A. D. 1963 at 2<sup>25</sup> o'clock P M

Allen E. Millhouse  
County Clerk and Recorder

By John A. Delige  
Deputy

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

GW 4

T. J. R. Street

County Flithead

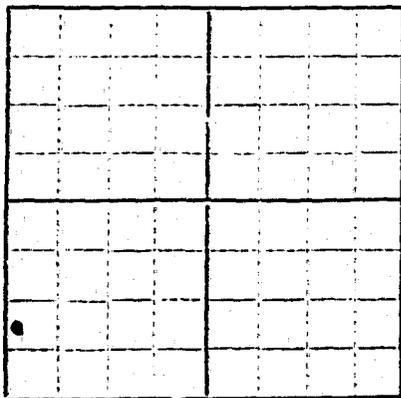
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED

Declaration of Vested Groundwater Rights STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

I, William G. and Lottie M. Clapper of Columbia Falls, Montana  
(Name of Appropriator) (Address) (Town)  
County of Flithead State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



1/4 Sec. 8 T. 20N R. 20W

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

2. The beneficial use on which the claim is based. Household Use - lawn sprinkling

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. March 1941 continuous use.

4. The amount of groundwater claimed (in miner's inches or gallons per minute). 20 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. Electric Submersible Pump.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. March 15, 1941

8. The depth of water table. 126 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. 1 1/2 inch 5 foot to 120 foot

10. The estimated amount of groundwater withdrawn each year. 15000 gal.

11. The log of formations encountered in the drilling of each well if available. Silt and clay - also bottom gravel in 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. log attached

Signature of Owner Lottie M. Clapper

Date December 9, 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.

247

9480

STATE OF MONTANA SS  
COUNTY OF FLATHEAD  
Filed on the 31 day of Dec.  
A. D. 1967 at 8:05 o'clock A. M.  
J. E. M.  
County Clerk and Recorder  
By [Signature] Deputy

WATER WELL LOG

WILLIAM O. GLAPPER - OWNER  
COLUMBIA FALLS, MONTANA

Drillers: Olson & Justin Columbia Falls, Montana

Started March 18, 1961. Completed March 19, 1961.  
Drilled with Churn Drill for domestic.

Purposes-using 7" OD Casing 20 lbs. per foot.

Cased from 0' to 126' from ground surface.

No screen. No perforations.

Static water level 27 feet from bottom.

720 GPH at 24 feet from bottom.

FORMATION LOG.

0' to 2'	Top Soil
2' to 14'	Coarse Gravel
14' to 59'	Silt and Clay
59' to 65'	Brown hard pan
65' to 68'	Small amount of sandy water.
68' to 125'	Brown hard Pan
125' to 126'	Water bearing gravel and sand.

Signed: /s/ Olson & Justin-Drillers  
Columbia Falls, Montana

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

GW. \_\_\_\_\_

T. 30 N. R. 20 W

County Flathead

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

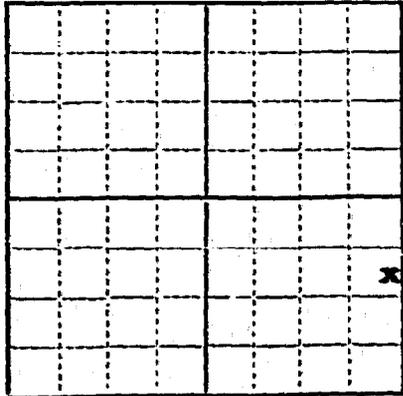
RECEIVED  
JAN 3 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. City of Columbia Falls 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:



SB 1/4 Sec. 8 T. 30 R. 20 &  
SW 1/4 Sec. 9, 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 municipal water supply

3. Date or approximate date of earliest beneficial use; and how continuous the use has been August, 1954; use continuous since then

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 3000 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  
Lawn and garden irrigation of customers only

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Two wells each with deep well turbine pumps. Well # 1 on Lot 6 Block 32, Columbia Falls Townsite; Well # 2 about 150 feet NE of Well #1.

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

8. The depth of water table Seventeen 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 # 1, Drilled well, 16" casing, 35' deep. Well # 2, Drilled well, 16" casing, 35' deep.

10. The estimated amount of groundwater withdrawn each year 46,000,000 gallons

11. The log of formations encountered in the drilling of each well if available Set out on reverse of this form

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 CITY OF COLUMBIA FALLS  
By [Signature] City Clerk  
Date Dec. 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.

23108

1099

31/23  
633/123  
M  
H

Well Log-- The following log is applicable to the test well drilled at site of final wells prior to their construction:

<u>Depth below ground</u>	<u>Material</u>
0 to 7 feet	Silty sand-- no water
7 to 17 feet	Sand and gravel-- no water
17 to 22 "	Sand and gravel-- water below 17 Feet
22 to 27 "	Sand and fine gravel-- water bearing
27 to 32 "	Sand & some gravel-- water bearing
32 to 128 "	Silty sand-- mostly non-water bearing
128 to 130 "	Brown sand & gravel- water bearing
130 to 178 "	Brown clay with sand & gravel-- Mostly non-water bearing

Doc. No. 14115  
Filed for record  
Mar 2 day of  
A. D. 1970 at 10:27  
o'clock P. M.

T. 30 R. 20  
County: Fleets

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)

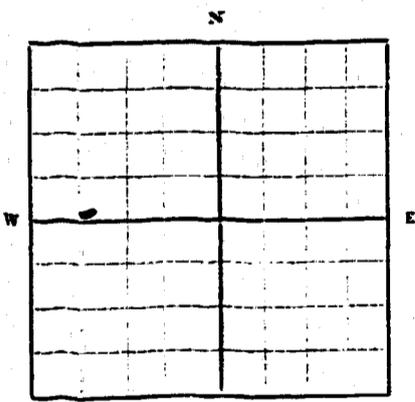


Top of Ground  
(Elev. above sea level.....)  
0 to 68 ft Brown hard pan  
68 to 74 ft Cemented gravel  
74 to 96 ft Brown hard pan  
96 to 97 ft  
Water bearing gravel and sand.

Owner John Hovick Address Col. Falls, Mont.  
Driller Glenn J. Justice Address Col. Falls, Mont.  
Date of Notice of Appropriation of Groundwater now filed  
Date well started March 29-67 Date Completed March 31-67  
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	7" O.D. 22 lbs pipe	0	97	none		



N 1/4 Sec. 8 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 28 feet.  
Shut-in Pressure for Flowing Well 700 flowing  
Pumping Water Level 82 feet at 15 gal. per minute.  
Discharge in gal. per min. of flowing well 700 flowing  
How Tested Sucker 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)

7055  
Driller's License Number  
Glenn 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.

14,115

STATE OF MONTANA  
COUNTY OF FLATHEAD SS  
Filed on the 2 day of Mar  
A. D. 1970 at 10:30 Clock A M  
B. E. M.  
County Clerk and Recorder  
By M. J.  
Deputy

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

GW 4

T. 30N R. 20W.

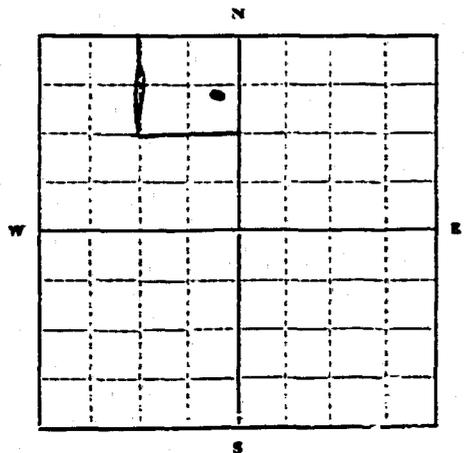
County Flathead

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 8 1964  
STATE ENGINEER

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

1. Merle Hult of Rt. 1, B. 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:



NE 1/4 NW 1/4 Sec. 8 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 Domestic consumption
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been June, 1947 continuously
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) 10 gallon per minute (9 months a year) 3 gallons per minute (3 months a year)
- 5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof 1/2 acre of garden 1/2 acre of lawn
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal 1 Jet pump - Electric Surface Pump
- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater June, 1947
- 8. The depth of water table 32 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 Drilled Well 7 inch casing - 38 Feet deep 20" ID casing 0' to 32'
- 10. The estimated amount of groundwater withdrawn each year 784,800 gallons
- 11. The log of formations encountered in the drilling of each well if available 6 inch top soil 30 feet gravel - 6 inches sand - 1 foot clay - hard, hard, clay
- 12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record Book 335 Page 317  
No County Record, previous.

Signature of Owner Merle Hult  
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.

23026

10852

31 Dec  
63 11:59  
J E M  
L J H

County Fletcher

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 105 ft brown hard  
pan + boulders  
105 to 111 ft  
cemented gravel  
with water.

Owner William H. Krapton Address Box 781 - Col. Falls, Mont.

Driller Oliver & Justin Address Col. Falls, Mont.

Date of Notice of Appropriation of Groundwater none filed

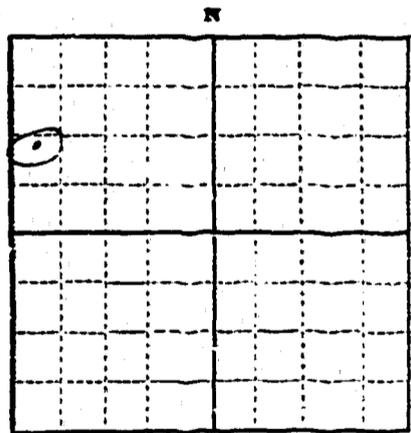
Date well started April 8-70 Date Completed April 13-70

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 3/8"	7" O.D. 23 lb.	0	111		none	



NW 1/4 Sec 8 T30N R20W  
Indicate location of well and place of use, if possible. Each small square represents 10 acres.  
Lot 1 - Block 5, Verville  
For Vets Subdivision  
Show exact depth of bottom \_\_\_\_\_

Static Water Level for non-flowing Well 97 feet.

Shut-in Pressure for Flowing Well non flowing

Pumping Water Level 99 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) \_\_\_\_\_

Doc. No. 14137  
Filed for record  
this 28 day of April  
A. D. 19 70, at 2:10  
o'clock P. M.

71055  
Driller's License Number  
Oliver & 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 Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

14.137

STATE OF MONTANA  
COUNTY OF FLATHEAD SS  
Filed on the 28<sup>th</sup> day of April  
A. D. 1970 at 2:10 o'clock P.M.  
By *[Signature]* Clerk and Recorder  
Deputy



17,531

STATE OF MONTANA  
COMMISSIONER OF REVENUE  
FUND NO. 11 DATE Oct  
A.D. 1924 4 O'Clock P M  
MT  
County of \_\_\_\_\_  
By QPH

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

GW 4

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

County \_\_\_\_\_

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 6 1964

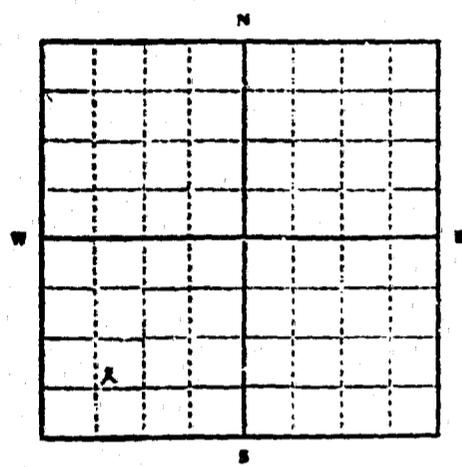
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

Harry Riley Box 142 Columbia Falls  
1. \_\_\_\_\_ of \_\_\_\_\_  
(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:



Sec. 2 T30 R20

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

2. garden & farm  
The beneficial use on which the claim is based

3. Date or approximate date of August 25<sup>th</sup> earliest beneficial use, and how continuous conditions the use has been

4. The amount of 40 gallons per minute groundwater claimed (in cubic 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  
electric pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater  
August 1952

8. The depth of water table  
116 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 116 feet

10. The estimated amount of groundwater withdrawn each year  
800,000 gallons 70 ft sand

11. The log of formations encountered in the drilling of each well if available  
40 ft clay & 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

Harry Riley  
Signature of Owner  
Dec 30, 1963  
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 to the Appropriator.



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

GW 4

T 30 N R 20 W

County \_\_\_\_\_

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 6 1964

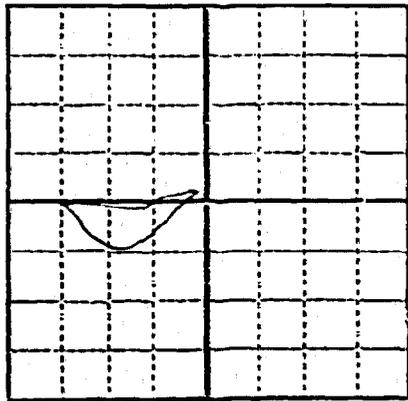
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

I, Plum Creek Lumber Company of Box 160, Columbia Falls (Town)

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



MC 34 Sub Sec 8 T 30 N R 20 W

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 Lumber  
Manufacture and fire protection

3. Date or approximate date of earliest beneficial use; and how continuous the use has been June, 1948 and continuously since.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 400 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 Panona  
turbine pump - 20 HP

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater June, 1948

8. The depth of water table forty-two (42) 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 10" case, 68' deep equip ed with 20 HP Panona  
Turbine pump.

10. The estimated amount of groundwater withdrawn each year 17,520,000 gallons

11. The log of formations encountered in the drilling of each well if available. log is available from  
Olsen and Justin, Columbia Falls

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. None applicable.

Signature of Owner PLUM CREEK LUMBER COMPANY  
[Signature]  
Date Secretary-Treasurer  
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.

22378

10707

UNITED STATES  
POSTAGE  
PAID 34  
AUG 1963-99  
20  
By *dia*

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

GW 4

T. 30N R. 20W

County \_\_\_\_\_

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

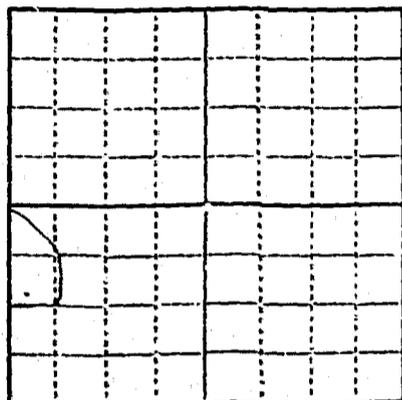
RECEIVED  
JAN 6 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. PLUM CREEK LUMBER COMPANY of Box 140 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:



~~SW 1/4~~ Sec. 8 T. 30N R. 20W  
Indicate point of appropriation  
and place of use, if possible.  
Each small square represents 10  
acres.

- 2. The beneficial use on which the claim is based Domestic and Irrigation.
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1948 and continuously since.
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) 15 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 Garden and orchard surrounding buildings
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal One dug well 15 feet deep and one drilled well 115 feet deep.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Dug well constructed in 1948 - Drilled well constructed in 1959.

8. The depth of water table 12 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 Shallow well used household type pressure system. Drilled well is equipped with a 3/4 in. diameter, sealed Fairbanks Morse pump with 1 1/2" discharge.

10. The estimated amount of groundwater withdrawn each year 150,000 gallons

11. The log of formations encountered in the drilling of each well if available Log available from Olsen and Justin, Columbia Falls

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. None applicable

Signature of Owner: PLUM CREEK LUMBER COMPANY  
[Signature]  
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.

2227

10708

RECORDED 33  
INDEXED  
MAY 31 1934  
A. D. 1934  
B. E. M.  
D. A. H.  
RECORDS  
DEPT.

County \_\_\_\_\_

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
MONTANA WATER RESOURCES BOARD

RECEIVED  
MAR 1 1973

DRILLER'S LOG

NOTICE OF COMPLETION OF GROUNDWATER  
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

MONTANA DEPARTMENT OF NATURAL  
RESOURCES AND CONSERVATION

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.

(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 \_\_\_\_\_

Address \_\_\_\_\_

Date well started \_\_\_\_\_  
completed \_\_\_\_\_

For Administrator's Use	
File	14624
Date	Feb. 27, 1973
GW 1	4:55 p.m.

Type of well \_\_\_\_\_  
(Dig, driven, bored or drilled)

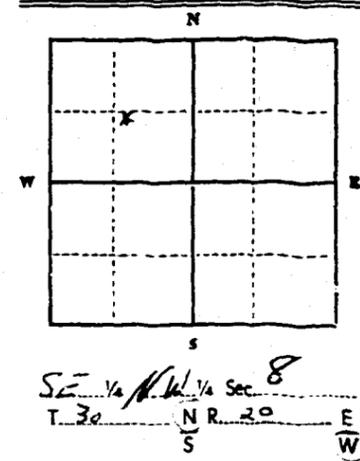
Equipment used \_\_\_\_\_  
(Churn drill, rotary or other)

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

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

ESTIMATED ANNUAL WITHDRAWAL \_\_\_\_\_

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
7 1/2"	7 1/2"	0	10	1 1/2"		



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

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

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

Driller's Address \_\_\_\_\_

LICENSE NO. \_\_\_\_\_

Top of Ground (Elev. above sea level)	
From (Feet)	To (Feet)
0	2
2	30
30	60
60	76
76	104
104	127

Show exact depth of bottom

57,510

14624

STATE OF MICHIGAN  
COUNTY OF FLINT

Filed on the 27 day of Feb  
A.D. 1922 at 4:55 o'clock PM

SMY  
County Clerk and Recorder

By [Signature]  
Deputy

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

GW 4

T 20 N R 20 W 9  
County \_\_\_\_\_

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

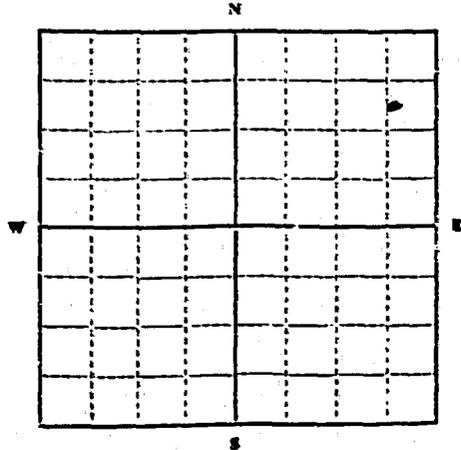
RECEIVED  
JAN 6 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Harold H. Reiter 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:



NE 1/4 NE 1/4 Sec 9 T30 R20

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 site
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been. not used now
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute). not at present time
- 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. no well at present

- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. not done
- 8. The depth of water table. 75 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. refer to 6
- 10. The estimated amount of groundwater withdrawn each year.
- 11. The log of formations encountered in the drilling of each well if available. no information 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. no information available

Signature of Owner Harold H. Reiter  
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.