**WATER WELL LOG**

**Owner:** H.E. Jones  
**Address:** Whitehall, Montana

**Driller:** Glenn Camp, 705 Alder  
**Address:** Missoula, Montana

**Date Started:** June 11, 1960  
**Date Completed:** June 23, 1960

**Location:** Sec. 26, T. 15 N., R. 22 W., 1/4 sec.

**Type of well:** Drilled  
**Equipment used:** Churn Drill

**Water use:**  
- Domestic [ ]  
- Municipal [ ]  
- Stock [ ]  
- Irrigation [X]  
- Industrial [ ]  
- Drainage [ ]  
- Other: 

**Casing:**  
- 6' above ground level 120' - 6'  
- Type: Seamless  
- Size: 10" I.D., 32 lbs. to foot

**Casing:**  
- to ft.  
- Type: 
- Size: 

**Perforated or Screened:**  
- Ft. to ft.  
- Type: 
- Size: 

**Type of screen or perforations:** Mills Knife 3" by 3/8" total of 45 holes to foot

**Static Water level, for non-flowing well:** Raised 2' above ground level

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

**Pumping water level:** feet  
at: 300 G.P.M.  
(____) gal. per min

**How tested:** Pump tested with Turbine Pump

**Length of test:**  
____ hours

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

---

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 1'</td>
<td>Top soil</td>
</tr>
<tr>
<td>1' - 11'</td>
<td>Gravel and sand</td>
</tr>
<tr>
<td>11' - 35'</td>
<td>Sand with water</td>
</tr>
<tr>
<td>35' - 59'</td>
<td>Clay</td>
</tr>
<tr>
<td>59' - 95'</td>
<td>Sandy Clay</td>
</tr>
<tr>
<td>95' - 100'</td>
<td>Sand</td>
</tr>
<tr>
<td>100' - 110'</td>
<td>Clay</td>
</tr>
<tr>
<td>110' - 119'</td>
<td>Sand, Gravel and water</td>
</tr>
<tr>
<td>119' - 122'</td>
<td>Clay</td>
</tr>
</tbody>
</table>
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: Dennis K. Williams For Administrator’s Use
Address: Hudson, Montana File: 2424; 358358

Date well started: Jan. 16, 1972
Date well completed: Jan. 23, 1972

Type of well: Drilled
(Dig, driven, bored or drilled)

Equipment used: Churn drill
(Churn drill, rotary or other)

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

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

ESTIMATED ANNUAL WITHDRAWAL: 2,000,000 gallons

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of casing</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6”</td>
<td>6”</td>
<td>17#</td>
</tr>
</tbody>
</table>

Static water level: 84’ above surface
Pumping water level: 85’ at 150 gph, measured 120 minutes after pumping began.
*Measured from ground level.
Well developed by Test pump for 8 hours.
Power: ----- HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

2.1 lbm. pressure at ground level. Shut off with well seal and gate valve.

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

Driller’s Signature: Charles Phillips
Driller’s Address: C.W.O. Drilling, P.O. Box 670

Missoula, Montana LICENSE NO. 185

178' Show exact depth of bottom

<table>
<thead>
<tr>
<th>Top of Ground (Feet above sea level)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>11</td>
</tr>
<tr>
<td>22</td>
</tr>
<tr>
<td>98</td>
</tr>
<tr>
<td>150</td>
</tr>
<tr>
<td>152</td>
</tr>
<tr>
<td>165</td>
</tr>
<tr>
<td>165</td>
</tr>
<tr>
<td>175</td>
</tr>
</tbody>
</table>

Missoula, Montana
I received and filed this instrument for record on the 22 day of Feb 1971 at 10 o'clock A.M., permanent files of Missoula County, State of Montana. Witness my hand:

Dorothy L. Head, County Recorder

By: J. H. Booth, Deputy

Fee $2.00 Paid
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner: ____________________________ Address: ____________________________

Driller: ____________________________ Address: ____________________________

Date of Notice of Appropriation of Groundwater: 6/20/64

Date well started: ____________________ Date Completed: ____________________

Type of well: ________________________ Equipment Used: ________________________

(aug, driven, bored or (Churn, drill, rotary or drilled)

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.

<table>
<thead>
<tr>
<th>Stratum Met With</th>
<th>Character</th>
<th>Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: ____________________ feet.

Shut-in Pressure for flowing Well: ____________________ psi.

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

Discharge in gal. per min. of flowing well: ____________________ gal. at _______________

How Tested: ____________________ Length of Test: ____________________

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

<table>
<thead>
<tr>
<th>Diagram of stratigraphy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

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.
I received and filed this instrument for record on the 20 day of Aug., 1924, at 4:30 P.M., in the presence of the recorders of Minnola County, State of Montana.

Witness my hand:

William L. Crapo, County Recorder

By: Clair J. Hauer, Deputy

filed
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Appropriation of Groundwater
(Under Chapter 237, Montana Session Laws, 1961)

1. HARVEY C. HACKMAN, of 170 Strand Avenue, Missoula
   (Name of Appropriator) (Address) (Town)
   County of Missoula, State of Montana, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.

2. The beneficial use to which water is to be applied is domestic use on lands hereinafter described.

   (describe lands to be benefited, if for irrigation)

3. The rate of use in gallons per minute or miner's inches of groundwater claimed: 1 gallon

4. The annual period (inclusive dates) of intended use: January 1, to December 31

5. The probable or intended date of first beneficial use: August, 1966

6. The probable or intended date of commencement and completion of the well or wells:
   August, 1966

7. The location, type, size and depth of well or wells contemplated: 4" casing, 300' in depth, drilled well or wells, upon lands hereinafter described.

8. The probable or estimated depth of the water table or artesian aquifier: 250' east

9. Name, address and license number of the driller engaged: None engaged at this time.

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

    That part of the NW\1\4 of Section 28, T. 15 N., R. 22 W., lying west of the Remount Road as now established; also South 130' of N\1\4 of N\1\4 of NE\3\4, NW\1\4 and North 170' of S\3\4 of N\3\4 of NE\1\4, lying east of said Remount Road.

    Locate well or other means of development as accurately as possible on the plat.

Signature of Appropriator: Harvey C. Hackman
Date: Dec 30, 1966

* As defined in the Code Sec. 1 (e) "Well" means any artificial opening or excavation in the ground, however made, by which groundwater can be obtained or through which it flows under natural pressures or is artificially withdrawn.

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology and quadruplicate for the Appropriator.
Missoula
HARVEY C. HACKMAN
/

30th December 65

/\s/ Thomas F. Murray

Missoula, Montana
September 17 67.

(NOTARIAL SEAL)
Notice of Appropriation of Groundwater
(Under Chapter 237, Montana Session Laws, 1961)

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Appropriation of Groundwater

1. **Name of Appropriator:** Donald P. Thruston
   **Address:** Helena, Montana
   **County:** Missoula
   **State:** Montana

   Intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.

2. **Beneficial use to which water is to be applied:** Household use
   **Location:** NE ¼ of SW ¼ of SE ¼ of SW ¼ T. 15 R. 24

3. **Rate of use in gallons per minute or miner's inches of groundwater claimed:**
   gal per minute

4. **Annual period (inclusive dates) of intended use:**
   Jan 1 to Dec 31

5. **Probable or intended date of first beneficial use:**
   July 1, 1964

6. **Probable or intended date of commencement and completion of the well or wells:**
   March 1, 1964

7. **Location, type, size and depth of well or wells contemplated:**
   Concrete drill
   **Location:** Approx. 1/2 Mile
   **Depth:** 240 ft.

8. **Probable or estimated depth of the water table or artesian aquifer:**
   80 ft.

9. **Name, address and license number of the driller engaged:**
   Donald P. Thruston
   **Address:** Helena, Montana
   **License:**

10. **Other similar information as may be useful in carrying out the policy of this act:**
    **Location:**
    **Depth:**
    **Significant wells:**
    **Driller:**

   *As defined in the Code Sec. 1 (c) "Well" means any artificial opening or excavation in the ground, however made, by which groundwater can be obtained or through which it flows under natural pressures or is artificially withdrawn.*

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

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

   Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology and quadruplicate for the Appropriator.

   **Signature of Appropriator:** Donald P. Thruston
   **Date:** 12-23-63
214746

I received and filed the instrument to record on the 23rd day of December 1923.

Witness my hand.

[Signature]

[Signature] Deputy

Ex EXT 40.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 237, Montana Session Laws, 1961)

Owner: John J. Farrell
Address: Helena, Mont.

Driller: John Farrell
Address: Helena

Date of Notice of Appropriation of Groundwater: 

Date well started: Aug 12, 1962
Date Completed: Aug 14, 1962

Type of well: Drilled
Equipment Used: Churn and drill (dug, driven, bored or 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.

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Height of Casing</th>
<th>Pressure</th>
<th>Use</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>9'</td>
<td>14' 18'</td>
<td>9'</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 9 feet.
Shut-in Pressure for Flowing Well: Unknown
Pumping Water Level: 50 feet at 10 gal. per minute.
Discharge in gal. per min. of flowing well: Unknown
How Tested: Pump
Length of Test: 9' Min.
Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other pertinent information, including number of acres irrigated, if used for irrigation)

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

Show exact depth of bottom.

Driller's License Number: 
Driller's Signature: John Farrell

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.
Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 237, Montana Session Laws, 1961)

Owner: Harvey Millhouse
Address: Nine Mile Creek

Driller: John Farrell
Address: Arlee, Mont.

Date of Notice of Appropriation of Groundwater: May 15, 1967
Date well started: May 15, 1967
Date completed: June 20, 1967

Type of well: Drilled
Equipment Used: Churn Drill

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.

<table>
<thead>
<tr>
<th>Strata Met With</th>
<th>Character</th>
<th>Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clay</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silt</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clay</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silt &amp; Water</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water &amp; Gravel</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: Ground Level: 133 feet.
Shut-in Pressure for Flowing Well: 15 gal. per minute.
Pumping Water Level: 23 feet at: 15 gal. per minute.
Discharge in gal. per min. of flowing well: 1 Hour

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

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.

Driller's License Number
Driller's Signature
I received and filed this instrument for record on the 12 day of June, 1967 at 11:00 A.M., permanent files of Mineral County, State of Montana, Witness my hand.

Bernard S. Olmsted, County Recorder

Deputy

Fee $...R. B.

Recorded on the... of June, 1967...

This record is true and correct as to form and content, and is in...
STATE WATER CONSERVATION BOARD

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
(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground
(Approx. Elevation above sea level 3150)

Formation Log:
- 0 - 20 Tan silty clay with a very little gravel imbedded.
- 20 - 25 Tan silt and sand.
- 25 - 31 Tan silty sand. Owner: William A. Nagy Address: Helena, Montana
- 31 - 64 Gray, green silty clay. Driller: LIBERTY DRILLING CO. Address: Missoula, Montana
- 64 - 71 Gray and tan clay in thin alternate layers. Some gravel imbedded. Date well started: December 29, 64 Date completed: December 31, 64
- 71 - 78 Tan silty clay with gravel imbedded. Silty water in seams. Date started: December 29, 64 Date completed: December 31, 64
- 78 - 86 Tan silty clay with seeps of water.
- 86 - 92 Green clay with gravel imbedded. Seeps of water. Equipment used: Dug, Driven, bored or drilled (Churn drill, rotary or other)
- 92 - 95 Tan clay with gravel imbedded.
- 95 - 97 Tan clay and silt with gravel imbedded. Static Water Level for non-flowing well.

Static Water Level for non-flowing well

Discharge in gal. per min. of flowing well

Non-Flowing

Shut-in Pressure for Flowing Well

How Tested: BaUer

Length of Test: Four hours

Remarks: (Gravel packing, cementing, packers, type of shutoff). All water is entering the well through cracks and seams in the rock.

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

Show exact depth of bottom.

Bottom of hole 110'

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, loose copy to be retained by driller.

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

Driller's License Number

Driller's Signature

3950
244.958

I received and filed this instrument for record on the 30th day of Aug., 19-65
in the office of the County Clerk of Missoula County, Montana.

[Signature]
Register of Deeds

[Signature]
Cashier
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater
Contractor (if any)
Address of Contractor
Date Started
Date Completed

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Obtainable from natural opening surfaced, 3½ feet underground, 50 feet deep on 3 acres. Sec. 32, T. 14 N., R. 22, by sub-irrigation pipe and Milwaukee R. 3 Highway 10 to all buildings, gardens, pens, and pasture.

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 continuously for livestock, irrigation, all household purposes, undetermined amount for all uses continually, only source of supply.

Signature of Owner
Date

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.
215.100

I received and find the instrument here attached and recorded on the 21st day of August, 1848, in Missouri, as a warranty deed of Missouri County, State of Missouri.

Witness my hand,

Martin J. Reiter, Surry

Plaintiff in Equity

July 1, 1848
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 37 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.

<table>
<thead>
<tr>
<th>Owner</th>
<th>Address</th>
<th>Well Name</th>
<th>Date well started</th>
<th>Date well completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Key Blake</td>
<td>Hudson, Mt</td>
<td>April 1, 1970</td>
<td>April 1, 1970</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Equipment used</th>
<th>Water Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cased well</td>
<td>Cased well</td>
<td></td>
</tr>
</tbody>
</table>

Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐ Industrial ☐ Drainage ☐ Other ☐ Garden/Lawn ☐

Describe or explain 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

<table>
<thead>
<tr>
<th>Date of Well</th>
<th>Date of Order</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>6/24</td>
<td>6/2/1970</td>
<td>0</td>
<td>128</td>
</tr>
</tbody>
</table>

PERFORATIONS

<table>
<thead>
<tr>
<th>Well</th>
<th>Date</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>6/24</td>
<td>6/2/1970</td>
<td>0</td>
<td>128</td>
</tr>
</tbody>
</table>

Static water level : 480 ft
Pumping water level : 335 ft
at : 48 gallons per minute, measured 40 minutes after pumping.

*Measured from ground level.

Well developed by for hours.

Power: electric, Pump: HP
Remarks: (Gravel packing, cementing, packers, type of shut-off)

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

Driller's Signature

Driller's Address

License No.: 295

County: Missoula

Show exact depth of bottom

10/4/70
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED

ASSISTANT
STATE ENGINEER

Count of MISSOULA State of MONT

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

lows:

1. John Doe (Name of Appropriator) (Address) (Town)

2. The beneficial use on which the claim is based

3. Date or approximate date of earliest beneficial use; and how con-

   tinuous the use has been: 1960 and has been made about

   every other year.

4. The amount of groundwater claimed (in miner's inches or gallons

   per minute): 70 gal pm

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:

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

   drawal of groundwater: not applicable.

8. The depth of water table: 10 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:

10. The estimated amount of groundwater withdrawn each year: 10,600 gal.

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

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including

    reference to book and page of any county record:

Signature of Owner: Philip Kay

Date: April 10, 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.
I received and filed this instrument for record on the 16 day of Sept. 1965 at 01:00 p.m. pursuant to the laws of Minooka County, State of Montana.
Witness my hand:

NOLAN B. MORGAN, County Recorder

By: [Signature]

Received date: 12/12/1965; Paid: [Signature]
Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962
(Under Chapter 237, Montana Session Laws, 1961)

Owner: Wayne's Borough
Address: P.O. Box 737
Driller: Glenn Camp
Address: Missoula, Mont.

Date of Notice of appropriation: 6/15/65
Date completed: 8/16/65

Type of well: Drilled
Equipment used: Charm drill

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 well, 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.

<table>
<thead>
<tr>
<th>Strata Met</th>
<th>Depth to Water</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gravel &amp; water</td>
<td>6' 1/2 to 10'</td>
<td>6' 1/2 I.D.</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well: 16 feet
Shut-in Pressure for flowing well:
Pumping Water Level: 16 feet at 60 gal. per minute.
Discharge in gal. per min. of flowing well:

How Tested: Balling
Length of Test: 2 hours
Remarks: (Gravel packing, cementing, packers, type of shutoff)

Indicate location of well and place of use, if possible. Each small square represents 40 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, those copies to be retained by driller.

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

Driller's License Number
Driller's Signature

[Signature]

[Date]
I received and filed this instrument for record on the 9th day of June, 19...  

I, Hazel C. Beggs, County Recorder of Wallowa County, State of Montana,  

By:  

Deputy Recorder  

Paid $1.00
Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962
(Under Chapter 237, Montana Session Laws, 1961)

Brown Clay
Owner: William M. MacDonald
Address: Great Falls, Montana
1522 S. 14th

Clay
Date of Notice of appropriation of groundwater
33'-34.5'
Gravel, Clay,
Water (abt.
40 GPM)
Type of well: Drilled
Equipment used: Drilling
(Dog, Driven, bored or drilled)

Clay
34.5'-35'
Gravel & water
Water use: Domestic

Clay
35'-42'
Gravel, clay
some water (tight
formation)
Water (about 30 GPM)

42'-46'
Clay (not water)

60'-71'
Water (small and less than 10 GPM)
sand and gravel
and clay

71'-72'
Water, sand and gravel (30 GPM)

static Water Level for non-flowing well
--- 99 feet.
Static Water Level for flowing well
--- x feet
Pumping Water Level
--- 94 feet
from top of well per minute.
with 60 gauge
How Tested:
Compressed
Length of Test: 3 hours
Remarks: (Gravel packing, cementing, packers, type of shutoff)

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).

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

N

W

S

--- See T. R

--- Indicate exact depth of bottom.

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

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

LICENSE # 7
Driller's License Number

Glenn Camp
Driller's Signature
41280

File No. 168
AUG 4 1986

COUNTY OF MONTANA

STATE OF MONTANA
OFFICE OF STATE ENGINEER

ADMINISTRATOR OF GROUNDWATER CODE
Received and filed this instrument for record on the 1st day of January, 1936, at 9 o'clock, A.M., in the office of the Recorder of Deeds of Missoula County, State of Montana.

Witness my hand:

Wm. B. George, County Recorder
By: M. J. Cook, Deputy Recorder
Fee $2.00.

[Signature]
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

NAME: John Doe
ADDRESS: 123 Main St.
TOWN: Bozeman
COUNTY: Gallatin
STATE: Montana

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

1. Name of Appropriator
2. The beneficial use on which the claim is based: Household.
3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1955 - 10 years.
4. The amount of groundwater claimed (in miner's inches or gallons per minute): 10,000 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: 50 acres, Farm
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: Pump.
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1955.
8. The depth of water table: 15 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: 100 ft.
10. The estimated amount of groundwater withdrawn each year: Unknown.
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: None.

Signature of Owner: John Doe
Date: 12/23/63

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
## GROUNDWATER INDEX

**County:** [County Name]

**Twp.:** 15

**Rge.:** 21

<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
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<td>233205</td>
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<td>Anderson, John S</td>
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<td>Doolen, Arthur</td>
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<td>Type of Form</td>
<td>County File No.</td>
<td>Remarks</td>
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<td>Corcoran, Robert A.</td>
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<td>213334</td>
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<td>35</td>
<td>Petersen, Clarence W.</td>
<td>A111</td>
<td>21111111</td>
<td></td>
</tr>
</tbody>
</table>
Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1963
(Under Chapter 237, Montana Session Laws, 1961)

Owner: Albert Hansen
Address: 1215 Main Street, Helena

Driller: Campell Drilling
Address: 1572 5th Street, Helena

Date of Notice of appropriation of groundwater: March 24, 1970
Date completed: March 26, 1970

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

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.

Static Water Level for non-flowing well
Shut-In Pressure for Flowing Well
Pumping Water Level
Discharge in gal. per min. of flowing well
How Tested. Test Pump
Length of Test: hours
Remarks: (Gravel packing, cementing, packers, type of shutoff)

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

Show exact depth of bottom.

License No.

Driller's License Number

Driller's Signature

46390
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

State Engineer

For

Leo D. Gleason & Marion Eub Gleason

Name of Appropriator

of

Route 41

Address

Missoula

Town

County of Missoula

State of Montana

have appropriated groundwater according to Montana law to January 1, 1962, as follows:

2. The beneficial use on which the claim is based

Domestic & Irrigation

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

Well (a) 1953 - 30 years

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

Well (a) 100 miner inches, well (b) 1000 miner inches, well (c) 800 miner 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

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

Well (a) perforated flow lines, pipes, well (b) not in use...

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

Well (a) 1891 - 1906, well (c) 1955

8. The depth of water table

Well (a) 7.2 ft., well (b) 8 ft., well (c) 6.6 ft.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater

Well (a) 100 miner inches, well (b) Rock and timber lined, about 60 ft. deep

10. The estimated amount of groundwater withdrawn each year

Well (a) 600,000 cads, well (b) 4,000 cads, 33 gallons

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

All wells soil, 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


dated

Date

February 7, 1964

Signature of Owner

Date Registered: 03, 1964

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.

30, 1964
**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 257 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:** Loyal L. Handerson  
**Address:** Branchtown, [Street, City, State]  
**File Number:** 8243  
**Date well started:** March 9, 1977  
**Completed:** March 15, 1977

**Type of well:** (Domestic, Municipal, Stock, Irrigation, Industrial, Drainage, Other)  
**Equipment used:** (Crawler, truck or drill)  
**Water Use:** (Domestic, Municipal, Stock, Irrigation, Industrial, Drainage, Other)  
**Description:** 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:**

<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Rate of Flow per minute</th>
<th>Total Gallons per minute</th>
</tr>
</thead>
<tbody>
<tr>
<td>6'</td>
<td>17'</td>
<td>0</td>
</tr>
</tbody>
</table>

**Static water level:** 71 ft.  
**Pumping water level:** 30 ft.  
**Rate:** 50 gallons per minute per 60 minutes after pumping began.

*Measured from ground level.  
Well developed by Dr. John E. [Pumping tests, hours, etc.].  
Power: [Type of pump].  
Remainders: (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.:** 24  
**Show exact depth of bottom:** 95 ft.

---

*DRILLER'S LOG*  
Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. 5' ow depth at which water is found and height to which water rises in well.
Received and filed this instrument for record on the 21st day of May, 1922, at 10:30 o'clock A.M. pursuant to law of Madison County, State of Montana.
Witness my hand.

Vappino B. Crone, County Recorder
By: [Signature], Deputy

Fee $5.00, Paid
Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: June 27, 1963
Owner: Arthur Donlan
Address: Frenchtown, Montana
Contractor (if any): None
Address of Contractor:
Date Started: Natural spring
Date Completed:
Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable.

Natural spring

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.

10 acres estimate used all year
Fair

Signature of Owner: Arthur Donlan
Date: June 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.
I received and filed this instrument for record on the 6th day of July, 1962, at 1:30 o'clock P.M., pursuant to the laws of Missoula County, State of Montana.

Witness my hand:

MAURICE S. BERNER, County Recorder

By: __________, Deputy

For $___________, Post __________.
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: Gilbert H. Richards
Address: Frenchtown
Montana

Date well started: Oct. 13, 1972
Completed: Oct. 19, 1972

Type of well: Drilled
Equipment used: Churn drill
Water Use: Domestic □, Municipal □, Stock □, Irrigation □, Industrial □, Drainage □, Other □, Garden/Lawn □

Estimate Annual Withdrawal: 2,500,000 gallons

Top of Ground (BFO. shere is level)

<table>
<thead>
<tr>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>4</td>
<td>Clay and gravel</td>
</tr>
<tr>
<td>6</td>
<td>Clay</td>
</tr>
<tr>
<td>14</td>
<td>Gravel and clay</td>
</tr>
<tr>
<td>80</td>
<td>Static water level</td>
</tr>
<tr>
<td>92</td>
<td>Gravel, clay and sand, water</td>
</tr>
<tr>
<td>92</td>
<td>Sand, gravel and water</td>
</tr>
</tbody>
</table>

Static water level: 80 feet*
Pumping water level: 92 feet*
1. 20 gallons per minute, measured 60 minutes after pumping began.

*Measured from ground level.
Well developed by ** 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 Address: C.E.O. Drilling, P.O. Box 670
Missoula, Montana
LICENSE NO: 185

Driller's Signature: [Signature]
Driller's Address: C.E.O. Drilling, P.O. Box 670
Missoula, Montana
LICENSE NO: 185

Show exact depth of bottom
I received and filed this instrument for record on the 6th day of October, 1928, at 11:45 clock, in the permanent files of Missoula County, State of Montana. Witness my hand.

Dorothy L. Head, County Recorder

By: George St. John, Deputy
### Declaration of Vested Groundwater Rights

**STATE OF MONTANA**

**ADMINISTRATOR OF GROUNDWATER CODE**

**OFFICE OF STATE ENGINEER**

**Declaration of Vested Groundwater Rights**

(Under Chapter 237, Montana Session Laws, 1961)

**STATE ENGINEER**

---

#### Declaration Information

<table>
<thead>
<tr>
<th>Name of Appropriator</th>
<th>Address</th>
<th>Town</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arthur C. Whitehead</td>
<td>Montana</td>
<td>Missoula</td>
</tr>
</tbody>
</table>

**County of Missoula**

**State of Montana**

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

1. **姓名**
2. The beneficial use on which the claim is based: **irrigation**
3. Date or approximate date of earliest beneficial use; and how continuous the use has been:
   - Earliest beneficial use was in 1830
   - Used continuously until 1940
4. The amount of groundwater claimed (in miner's inches or gallons per minute):
   - 60 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:
   - 75 acres, 28 quarter of North West Section 27
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal:
   - **Pump driven**
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
   - April 1, 1830, finished May 1, 1830
8. The depth of water table: **52 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, 12 inch casing, 80 feet
10. The estimated amount of groundwater withdrawn each year:
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:
   - **Nothing available**

**Signature of Owner**

**Date**

---

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology and quadruplicate for the Appropriator.
I, Martin C. Berrier, County Recorder, on the 26th day of July, 1949, at 1:30 o'clock P.M., personally filed this instrument for record in the Missouri County, State of Montana.

Witnes my hand.

MARTIN C. BERRIER, County Recorder

Ex. No. 2, 20782. Filed 2.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962
(Under Chapter 237 Montana Session Laws, 1961, as amended)

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

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

Owner: John Doe, Driller
Address: 123 Main St, Town, MT
Date well started: Jan 15, 1973

Date well completed: Feb 23, 1973

Type of well: Churn drill
Equipment used: Churn drill, rotary or other

Water Use: Domestic ☑, Industrial ☐, Drainage ☐, Other ☐

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

PERFORATIONS

Static water level: 31 ft.
Pumping water level: 32 ft.
at 100 gallons per minute, measured 60 minutes after pumping
began.

Measured from ground level.
Well developed by:

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: John Doe
Driller's Address: 123 Main St, Town, MT

LICENSE NO. 257

Show exact depth of bottom

54 ft.
I received and filed this instrument for record on the 19th day of Dec., 1973, at 10:00 o'clock A.M., permanent files of Missoula County, State of Montana.
Witness my hand:
Dorothy L. Heig, County Recorder
By: Linda Eighmey, Deputy
For: County Recorder Paul.
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:
Address:
Date well started
Date completed
Type of well
Equipment used
Water Use:

*Describe Compound

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

<table>
<thead>
<tr>
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<th>Site and Stage of Ground</th>
<th>Perforations</th>
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</thead>
<tbody>
<tr>
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<td></td>
</tr>
</tbody>
</table>

Static water level
Pumping water level
at gallons per minute, measured minutes after pumping began.

*Measured from ground level.
Well developed by for hours.
Power...
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.

Show exact depth of bottom

53,062
I received and filed this instrument for record on the 22nd day of August, 1931, at 4:30 o'clock, A.M., pursuant to the laws of Missoula County, State of Montana.
Witness my hand:
Dorothy L. Head, County Recreator
By A. L. Baker, Deputy
Fee $5.00, Paid
STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

M. N. & Adeline B. Hewlett
of P. O. Box 44, Fraughtown

County of Missoula
State of Montana

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

1. (Name of Approprietor) (Address) (Town)

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 _continuous since__

October 1, 1961

4. The amount of groundwater claimed (in miner’s inches or gallons per minute) __15 gals per min__

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof... 2 acres family garden, lawn

Trees: M. N. & Adeline B. Hewlett

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

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

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... One driven, 23 feet deep 14 casing

10. The estimated amount of groundwater withdrawn each year __15,000 gals__

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

Well was driven

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... Worth and parallel to Sec. Line 1520.34; trhe N1T12 W1011; than South 1625.15; than 859’50”W 6931; Purchasers... Interest filed March 1, 1962 Vol II Missoula Records, p 325, with Dead Exhibits 1037, records of Miss Co.

Signature of Owner... 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 Quadruplicate for the Appropriator.
I received and filed this instrument for record on 1/15/31. day of 1931.
as 20th hour of 12 o'clock A.M., permanent file at the office of the
Wm. W. G. Kauffman, State of Montana
Witness my hand.
Walter L. Adams, Deputy Register
Walter L. Adams, Deputy Register
Paid $1.00...Paid
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner: Henry Ralph
Address:....

Driller:.....
Address: St. cds...

Date of Notice of Appropriation of Groundwater: 1/4/64
Date well started: 1/5/64
Date Completed: 1/5/64

Type of well: Drilled
Equipment Used: churn
(dug, driven, bored or drilled)

Water Use: Domestic X  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. Also indicate depth at which water is encountered, thickness and character of water-bearing strata and height to which water rises in the well.

<table>
<thead>
<tr>
<th>Data of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 9 feet

Shut-in Pressure for Flowing Well: does not apply

Pumping Water Level: 11 feet at 30 gal. per minute.

Discharge in gal. per min. of flowing well: does not apply

How Tested: drilled
Length of Test: 100 feet

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)

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

Show exact depth of bottom.

Driller's License Number: 23
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.
I received and filed this instrument for record on the 22nd day of December, 1936, at 9:30 A.M., permanent time of Hunt County, State of Montana.

Witness my hand.

Virginia R. Croswell, County Recorder
By: E. J. Henson, Deputy
Fee $1.00

Legal File No.: 223620

1/24/1936
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Thomas R. Scheffer and
Virginia M. Scheffer, his wife, of Huson

County of Missoula 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

   Livestock watering

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

   1895 - continuous

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

   50 gallons per minute

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof

   not applicable

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

   4 h.p. motor - one inch tile-casing

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

   1895 - commencement and completion date

8. The depth of water table

   Eighteen (18) 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

   Twelve (12) inch tile-casing

10. The estimated amount of groundwater withdrawn each year

    50,000 gallons

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

    Unavailable

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record

    No previous record of filing

Signature of Owner

Date November 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.
Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 237, Montana Session Laws, 1961)

Owner: Philip Cyr
Address: Hudson, Montana
Driller: Liberty Drilling
Address: Missoula, Montana

Date of Notice of Appropriation of Groundwater: None
Date well started: Oct. 15, 1962
Date well completed: Nov. 5, 1962

Type of well: Drilled
Equipment Used: Cable tools

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.

---

<table>
<thead>
<tr>
<th>Strata Met With</th>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Drilling Rod</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-13 Pit</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13-179 Fine Silty Sand and Clay</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>127-133 Gray Sandy Clay</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>133-153 Gray Silty Sand with Some Sandier Clay Strata</td>
<td>6&quot;</td>
<td>18&quot; per ft</td>
<td>11'</td>
<td>200'</td>
</tr>
<tr>
<td>153-161 Gray Sandy Clay</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>161-172 Gray Silty Sand and Clay</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>172-174 Gray Sandy Clay</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>174-177 Gray Sandy Clay</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>177-181 Gray Sandy Clay</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>181-183 Broken Rock or Boulder in Gray Silty Sand</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>183-251 Cemented Compounds of Sand, Gravel, Broken Rock, and-Boulders</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Static Water Level for non-flowing Well: Flowing ________ feet.
Shut-in Pressure for Flowing Well: ________
Pumping Water Level: ________ feet at ________ gal. per minute.
Discharge in gal. per min. of flowing well: ________ gal.
How Tested: Submersible Pump Length of Test: ________
Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other pertinent information, including number of acres irrigated, if used for irrigation). Garden irrigated

Driller's License Number: William F. Oleson

---

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.
I received and filed this instrument for record on the 1st day of Dec., 1925, at 9:25 a.m., by the 20th day of Dec., 1925, in the County of Missoula, State of Montana, at the office of the County Recorder, and made a record of the same.

WITNESS my hand:

MARTIN B. BEHAVIN, County Recorder
By:  

P.E.P., Deputy
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... HENRY LAVOIE

Address... Hubon, Montana

Date well started... 1917

completed... 1917

Type of well... Dug

Equipment used... Dug by hand

Water Use... Domestic☐ Municipal☐ Stock☐ Irrigation ☐ Industrial☐ Drainage☐ Other ☐ Garden/Lawn ☐

*Describe... 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

<table>
<thead>
<tr>
<th>Date of Drilled</th>
<th>Size and Location of Cavallo</th>
<th>Depth (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-1-41</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static water level... 33 ft.*
Pumping water level... 12 ft.*

at... 10 gallons per minute,

measured... 3 minutes after pumping began.

*Measured from ground level.

Well developed by... for... hours.

Power... Electric Pump. 3 HP

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

...cemented sides in well

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

Driller's Signature... HENRY LAVOIE

Driller's Address... Hubon, Montana

LICENSE NO...
**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:** Joseph E. Boyer  
**Address:** Frenchtown, Montana

---

**Date well started:** Sept. 3, 1949  
**Completed:** Oct. 4, 1949

---

**Type of well:** Driven

---

**Equipment used:** Driller

---

**Water Use:** Domestic  
**Other:**

---

**Estimate annual withdrawal:** 1 million gallons

---

**Static water level:** 8 ft.  
**Pumping water level:** 20 ft.  
**Power:** Elect  
**Remarks:** (Gravel packing, cementing, packers, type of shutoff)

---

**Top of Ground:**

<table>
<thead>
<tr>
<th>Depth (Ft)</th>
<th>Top (Ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>18</td>
</tr>
<tr>
<td>18</td>
<td>21</td>
</tr>
<tr>
<td>21</td>
<td>124</td>
</tr>
<tr>
<td>124</td>
<td>162</td>
</tr>
<tr>
<td>162</td>
<td>178</td>
</tr>
</tbody>
</table>

---

**License No.:** 134  
**Driller's Address:** Arlee, Montana

---

**RECEIVED**  
**AUG 17 1972**  
**County:** Missoula

---

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

---

**Driller's Signature:** John Farrell

---

**160**  
**Show exact depth of bottom**
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 327 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:_________________________ For Administrator's Use
Address: P.O. Box 23
Ennis, Montana
Date well started: July 15, 1962
Completed: July 12, 1962

Type of Well: Deep (Drop, driven, bored or drilled)
Equipment used: Drill
Water Use: Domestic □ Municipal □ Stock □ Irrigation □ Industrial □ Drainage □ Other □ Gardern/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: 5,500,000 gal.

Top of Ground

<table>
<thead>
<tr>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 3</td>
<td>3 to 6</td>
</tr>
<tr>
<td>6 to 9</td>
<td>9 to 12</td>
</tr>
</tbody>
</table>

Static water level: 10 ft.
Pumping water level: 16 ft.

*Measured from ground level.
Well developed by _______ for _______ hours.
Power: _______ HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

H H H H H H H H H H H H
W W W W W W W W W W W W

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

Driller's Signature: ____________________________
Driller's Address: ____________________________

LICENSE NO.: 50-108