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

(Under Chapter 237, Montana Session Laws, 1961)

**State of Montana**

*Administrator of Groundwater Code III*

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

Owner: **David H. Turner**

Address: **849 5th St. NW, Hayre, Montana**

Date of Notice of Appropriation of Groundwater: **Sept 19, 1964**

Date well started: **Sept 19, 1964**

Date well completed: **Sept 19, 1964**

**Type of well:** Drilled

**Equipment Used:** Cable Tool Rig

**Well Depth:** 79 ft.

**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.**

**Static Water Level for non-flowing Well:** 11 feet

**Shut-in Pressure for Flowing Well:** Not Applicable

**Pumping Water Level:** 79 feet at 10 gal. per minute.

**Discharge in gal. per min. of flowing well:** Not Applicable

**How Tested:** Gallery Pump Length of Test: 12 Hours

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

**WATER AT 44 FT LEVEL CASED OFF DUE TO IRON**

**HARDNESS 4 6 1/2 FT VEIN SHUT OFF DUE TO CONSIDERABLE SITTING CONDITION**

**Driller's License Number:**

**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.

---

**File No.:**

---

**Top of Ground**

(Elav. above sea level)

<table>
<thead>
<tr>
<th>Soil</th>
<th>Sandy Brown Clay</th>
<th>Rainy Sand - Trace of Water</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Silty Brown Clay</td>
<td>Grey Sand - Trace of Bravel + Water</td>
</tr>
<tr>
<td></td>
<td>Blue-Grey Clay (Sft)</td>
<td>Grey Sand - Gravel + Water (Approx 12 GPM)</td>
</tr>
<tr>
<td></td>
<td>Grey Clay</td>
<td>Silty Grey Clay</td>
</tr>
<tr>
<td></td>
<td>Coarse Gravel</td>
<td>Considerable Silty Sand (Uncraved to Clear)</td>
</tr>
<tr>
<td></td>
<td>Grey Sand, Silt + Gas Artific</td>
<td>Grey Clay</td>
</tr>
<tr>
<td></td>
<td>Yellowish-Brown Shale</td>
<td>Brown Sandstone</td>
</tr>
</tbody>
</table>

**Size and Weight of Casing from (Feet) To (Feet)**

<table>
<thead>
<tr>
<th>Kind</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Set Directly Above Sandstone at 79 ft.</td>
<td>6 1/2 I.D.</td>
<td>18 PIP Foot</td>
</tr>
<tr>
<td>Sandstone from 79-88' Left Open, (Not Cased)</td>
<td>79</td>
<td></td>
</tr>
</tbody>
</table>

**Pumping Water Level:** 11 feet

**Driller's License Number:**

**Driller's Signature:**

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**NOTES:**

**BLOCK 3**

**TAYLOR'S N. HAVER**

---

**Markings:**

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

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**Pumping Water Level:** 11 feet

**Driller's License Number:**

**Driller's Signature:**

---

**NOTES:**

**BLOCK 3**

**TAYLOR'S N. HAVER**

---

**Markings:**

- Gravel packing, cementing, packers, type of shutoff, location of point of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation.
DAVID H. TURNER

TO

THE PUBLIC

NOTICE OF COMPLETION OF
GROUNDWATER APPROPRIATION BY
MEANS OF WELL

STATE OF MONTANA,
COUNTY OF HILL,
COUNTY OF HILL.

Filed at 10:00 o'clock a.m.

ON SEP. 25, 1964

By

COUNTY CLERK

DEPUTY
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODES
OFFICE OF STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

1. Lawrence Thelihary, 179 Furlong Road, Hill, State of Montana

Have appropriated groundwater according to the Montana laws in effect prior to Jan. 1, 1962 as follows:

2. The beneficial use on which the claim is based

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

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

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

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

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

8. The depth of water table

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

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

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

Signature of Owner

Date

Three copies to be filed by the owner with the County Clerk & 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 & Recorder; duplicate to the State Engineer; triplicate to the School of Mines and quadruplicate for the Appropiater.
DECLARATION OF VESTED GROUNDWATER RIGHTS

STATE OF MONTANA
COUNTY OF HILL

Filed at 11 o'clock a.m.

ON DEC. 31, 1963

COUNTY CLERK

FEE: $2.00 pd.
DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

1. Charles Lynn & Violet McInnis
   (Name of Approporator)
   of 174 Explorer Ave., Havre
   (Address)
   County of
   State of
   Hill
   Montana

   Have appropriated groundwater according to the Montana laws in effect prior to Jan. 1, 1962 as follows:

2. The beneficial use on which the claim is based
   
3. Date or approximate date of earliest beneficial use; and how continuous the use has been
   
4. The amount of groundwater claimed (in miner's inches or gallons per minute)
   
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
   
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
   
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
   
8. The depth of water table
   
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
   
11. The log of formations encountered in the drilling of each well if available
   
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record

Signature of Owner

Date

Three copies to be filed by the claimor with the County Clerk & 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 & Recorder; duplicate to the State Engineer; triplicate to the School of Mines and quadruplicate for the Approporator.
DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

1. Charles Wyman & Violet Lee Wyman of 174 Farley Ave., Havre
   (Name of Appropriator) (Address)
   County of Hill, State of Montana
   Have appropriated groundwater according to the Montana laws in effect prior to Jan. 1, 1962 as follows:

   2. The beneficial use on which the claim is based
      House hold and irrigation (5) five wells

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been
      10 yrs. plus continuous
      though some wells haven't been used for
      10 yrs the others are in use.

   4. The amount of groundwater claimed (in miner's inches or gallons per minute)
      5,000 G.P.M. 100 G.P.M.

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

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

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
      Well: Five completed Aug 13, 1960
      The others were prior. (new well started Aug 63 but not in well at all)

   8. The depth of water table

   9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
      (1.3.3.) not known 5. 02. 96

   10. The total amount of groundwater withdrawn each year

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

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

   Signature of Owner
   Date 12-31-63

Three copies to be filed by the owner with the County Clerk & 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 & Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.
397218

CHARLES & VIOLET LINNIA

TO

THE PUBLIC

DECLARATION OF VESTED GROUND AT EASE RIGHTS

STATE OF MONTANA
COUNTY OF BILL
Filed on 9-28-1963

FEE: $2.00 paid.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODES
OFFICE OF STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

1. Name of Appropriator
   (Address)
   (Town)
   County
   State
   Have appropriated groundwater according to the Montana laws in effect prior to Jan. 1, 1962 as follows:

2. The beneficial use on which the claim is based
   House/garden

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
   1957
   Continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute)
   300

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
   Pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
   1957

8. The depth of water table
   52 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
   Sandpoint
   1/4" pipe

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

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

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

Signature of Owner

Date

Three copies to be filed by the owner with the County Clerk & 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 & Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.
RENÉ BÉAUCHE NE

TO

THE PUBLIC

DECLARATION OF VESTED
GROUNDWATER RIGHTS

DATE OF RECORDATION
COUNTY OF FILL

DEC. 3, 1863

$2.00 pd.
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL
Developed after January 1, 1962

(Received copy)

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

Notice of completion of ground water appropriation by means of well

(Montana Session Laws, 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: ARTHUR DE LONG, 647 5th Ave. No., Havre, Montana
Date well started: 10/14/71
Date well completed: 10/14/71
Type of well: DRILLED
Equipment used: CABLE TOOL RIG
Water Use: Domestic [X] Municipal [ ] Stock [ ] Irrigation [ ]
USE: (If used for irrigation, industrial, drainage or other, explain number of acres and location or other data (i.e. Lot, Block and Addition).
Estimated annual withdrawal: 100,000 gallons

Top of Ground (Enter above sea level)

<table>
<thead>
<tr>
<th>From (feet)</th>
<th>To (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.75</td>
<td>EARTH WELLbastian</td>
</tr>
<tr>
<td>1.5</td>
<td>GRAVEL-COMPRESSION</td>
</tr>
<tr>
<td>1.75</td>
<td>SANDY SANDSTONE</td>
</tr>
</tbody>
</table>
| 2.5 | GRAVEL-WATER 

NOTE: Hole Diamond to 127 ft. below ground surface of active water level.

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

Driller's Signature: HARVEY B. HAYKINS, DRILLING SERVICE
Driller's Address: 1725 6TH ST. NO, HAVERST, MONTANA
LICENSE NO. 446

DRILLER'S LOG

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

TO

THE PUBLIC

WATER WELL

MAR 1 1972

B. E. Blom

Fee: $2.00 pd.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Mrs. Anna Bangs (Name of Appropriate?)

County of State of
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. Household

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. May 18, 1963

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 15 GPM

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. May 18, 1963

8. The depth of water table. 30 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. 50 ft

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

Signature of Owner: Mrs. Anna Bangs

Date: Sept. 11, 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 Appropriate.
MRS. ANNA DRAEGE

TO

THE PUBLIC

DECLARATION OF VESTED GROUND WATER RIGHTS

STATE OF MONTANA,
COUNTY OF BILL

Filed at 2:30 o'clock, P.M.
ON SEP 11 1963

R. E. Blom
COUNTY CLERK

By: Deputy

Fee: $2.00 pd.
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.

Driller's Log

State of Montana. Administrator of Groundwater Code

Driller's Name: CHARLES K. GREENLEAF

Address: 205 5TH St, No. 425965

House, Montana: Oct. 5, 1962 3:45 pm

Date well started: 10/16/70; GW 1

Date well completed: 10/16/70

Type of well: DRILLED (Drill, driven, bored or drilled)

Equipment used: CABLE TOOL RIG (Chisels or rotary of 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: 1,500,000 GALLONS

Top of Ground (feet above sea level)

<table>
<thead>
<tr>
<th>Stratum</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>soil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sand</td>
<td></td>
<td></td>
</tr>
<tr>
<td>gravel</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Screen Inserted from 35 to 57 Feet

Screen Inserted from 35 to 57 Feet

Considerable Amount of Fine Sand & Silt

Considerable Amount of Fine Sand & Silt

Dissolved solids: 0.8 CS per gallon

Dissolved solids: 0.8 CS per gallon

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

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.

Each small square represents 40 acres.

Driller's Signature: CHARLES K. GREENLEAF

Driller's Address: HAVER, MONTANA

LICENSE NO. 46

Show exact depth of bottom: 50 ft
425968

CHARLES DURWARD & GAYNELLE A. DURWARD

TO

THE PUBLIC

WATER WELL

STATE OF MONTANA)
COUNTY OF HILL

Filed Oct 6 1972

R. E. Blom
COUNTY CLERK

Fee: $2.00 pd.

DIXER
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner: JAMES ENGLAND
Address: NORTH HAVRE

Driller: SELPSON DRILLING CO
Address: HAVRE, MONTANA

Date of Notice of appropriation of ground water

Date well started: 12/1/1971
Date Completed: 12/3/1971

Type of well: DRILLED
Equipment used: CABLE TOOLS
(dug, driven, bored or Churn, drill, rotary or drilled)

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>Depth (Feet)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>brown clay</td>
</tr>
<tr>
<td>22</td>
<td>brown sandstone</td>
</tr>
<tr>
<td>32</td>
<td>rock</td>
</tr>
<tr>
<td>53</td>
<td>sandy blue shale</td>
</tr>
<tr>
<td>78</td>
<td>sandstone and water</td>
</tr>
</tbody>
</table>

Show exact depth of bottom.

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

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 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.

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 Appropriator.
JAMES ENGLAND

TO

THE PUBLIC

Fee: $2.00 pd
Declaration of Vested Groundwater Rights

State of Montana

Office of State Engineer

(Under Chapter 237, Montana Session Laws, 1961)

Charles Arthur & Donald George Gason

(Name of Appropriator)

of

BOB Hill, North Side

Helena

(Address)

(Town)

County of

Hill

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:

   domestic

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

   Sept. 20, 1958

   constant

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

   7 gpm

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

   none

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

   electric

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

   Started Sept. 10, 1958
   Finished Sept. 20, 1958

8. The depth of water table:

   54 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:

   drilled, 6" diameter, 99 ft. depth

10. The estimated amount of groundwater withdrawn each year:

    3,579,200

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

    sandstone

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:

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.
CHARL S ARTHUR & DONALD GEORGE
GAMEON X X X X X

to

THE PUBLIC

DECLARATION OF VES ED GROUND
WATER RIGHTS

STATE OF MONTANA,
COUNTY OF HILL
Filed at 10 o'clock A.M.

H. 0ST 29 1963
R. E. M
SHERIFF

Fees: $2.00 pd.
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

Great Northern Railway Company, of 175 E. 4th St., St. Paul, Minnesota
(Name of Appropiator) (Address)

County of HILL 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: Railroad Purposes.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1930.

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

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: N/A

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: Well at Box Elder and Well at Havre.

(for location of Well at Havre, see reverse side)

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

8. The depth of water table: N/A

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: N/A. Dug well, 33' deep.

10. The estimated amount of groundwater withdrawn each year: 100,000 gallons

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

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: N/A

GREAT NORTHERN RAILWAY COMPANY.

Signature of Appropiator: H. H. Hirschfield
Superintendent of the Butte Division
Date: 11-2-63

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.

2739.
GREAT NORTHERN RAILWAY COMPANY

TO THE PUBLIC

DECLARATION OF VESTED GROUND WATER RIGHTS:

STATE OF MONTANA
COUNTY OF HILL
Filed at 3 o'clock A.M.
ON DECEMBER 12, 1962

COUNTY CLERK

By

Deputy

Fee $2.00 paid.

Location of Well:

1. Location of Well: No. 1
2. Location of Well: No. 2
3. Location of Well: No. 3
4. Location of Well: No. 4
5. Location of Well: No. 5
6. Location of Well: No. 6
7. Location of Well: No. 7
8. Location of Well: No. 8
9. Location of Well: No. 9
10. Location of Well: No. 10
11. Location of Well: No. 11

See attached log sheet.
WELL NO. 9

Water yield of 27 ft from surface and pumped down to 36 ft when pumping at rate of 140 G.P.M.

Drilling began Jan. 9 and finished Feb. 8, 1956

Wells put down by Ry. Co. force and machine; C.M. Wick driller. Als 56/63

Enor: Water Service

1D-1200-304
HAVRE, Montana

Afe 77897

Log of Gravel Well No. 2 pulled down by R.G. Co. forces and machine.

Work started Jan. 16th and finished May 19th, 1940.
Pumping tests: Water level was at 18' below surface and lowered to 46' when delivering 220 G.P.M.

Construction Notes:

Excavation started with 65' Coffson and tapered to 62' with 85' to depth of 80'.

Concentrically, 12' Casing with 12' screen-18' was placed with bottom of screen at 79' below surface.

Gravel was placed between 12' string and casing on the 36' pulled and recovered, the 42' & 48' left in place.

A cloudburst in June 40 flooded the flat, where wells are located causing settlement around new well (also 6111 Well 9). It was learned when lowering permanent pumping unit that screen had collapsed and to increase the supply was necessary to move in drill machine and swage out screen so could insert 8' Casing as reinforcement and to prevent further damage.

Location Sketch:

Erup. Water Service 10-1200-184
HAVRE MONT.

Leg of 26 x 18.5' gravel packed well put down by Fairbanks Morse Water Supply Co., under contract #9291, dated July 9th, 1929. Work began Sept. 6th and completed Nov. 5th, 1929. Water level was at 12' 6" lowered to 50' 5" when pumping 355 gpm.

Grid Surface

26' casing

Water level - 12' 6"

28' casing extended (for casing wash)

31' casing extended (for casing wash)

111' casing extended (for casing wash)

103' casing extended (for casing wash)

Hole backfilled

120' Bottom of Hole - as drilled.

Location Sketch

MILK RIVER

Location of Pumping Plant

Figured Reservoir

A.P. Bridge

Approach

Office of Ener Water Service
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 227, 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: HERMAN & BETTY HOOG
Address: 533 5TH AVE. NO
HARRIETT, MONTANA
File #: 27.732.36

Date well started: FEBRUARY 12, 1973
Date well completed: FEBRUARY 12, 1973

Type of well: DRILLED
Equipment used: CABLE TOOL Rig

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 EXCEEDING 500,000 GALLONS

<table>
<thead>
<tr>
<th>Size of Well</th>
<th>Size of Drainage</th>
<th>Length of Well</th>
<th>Top of Ground</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 ft. x 5 ft.</td>
<td>Plastic</td>
<td>35 ft.</td>
<td>50 ft.</td>
</tr>
<tr>
<td>8 ft. x 8 ft.</td>
<td>Plastic</td>
<td>40 ft.</td>
<td>60 ft.</td>
</tr>
<tr>
<td>10 ft. x 10 ft.</td>
<td>Plastic</td>
<td>50 ft.</td>
<td>75 ft.</td>
</tr>
</tbody>
</table>

PERFORATIONS

- 8", PVC Plastic
- 6", Galvanized

Static water level: 13 ft.
Pumping water level: 17 ft.

Power used: ELECTRIC Pump: 1/3 HP
Remarks: Gravel packing, cementing
packers, type of shutoff

INCREASED TO 2 GPM

HILL, 5

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.

Driller's Signature: [Signature]
Driller's Address: 1173 6TH ST. NO
Phone: 265-4910
HARRIETT, MONTANA 59501 LICENSE NO. 46

Show exact depth of bottom

59.640
HERMON & BETTY HEAD

TO

THE PUBLIC

WATER WELL

STATE OF MONTANA
COUNTY OF HILL

Filed at 9:00 o'clock A.M.

ON MAR 14 1973

R. E. Blom
COUNTY CLERK

Fee: $2.00 pd.
**Notice of Completion of Groundwater Appropriation by Means of Well**

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

**DEVELOPED AFTER JANUARY 1, 1962**

(Under Chapter 237, Montana Session Laws, 1961)

**Owner:** James Head  
**Address:** 663 52nd Ave., No.  
**Driller:** M.E. Drilling Service  
**Address:** Havre, Montana

**Date of Notice of appropriation of groundwater:**

**Date well started:** 8-24-65  
**Date completed:** 9-7-65

**Type of well:** Drilled  
**Equipment used:** Cable tool rig  
(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.

<table>
<thead>
<tr>
<th>Size of Casing</th>
<th>Size of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>9&quot;</td>
<td>6¾&quot; O.D. above ground level</td>
<td>2'00&quot;</td>
<td>185'00&quot;</td>
<td>Slotted</td>
</tr>
<tr>
<td>13¼&quot;</td>
<td>187/8&quot;</td>
<td>18&quot;</td>
<td>36&quot;</td>
<td></td>
</tr>
<tr>
<td>12&quot;</td>
<td>14&quot;</td>
<td>40&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10&quot;</td>
<td>70&quot;</td>
<td>53&quot;</td>
<td></td>
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<tr>
<td>11½&quot;</td>
<td>87&quot;</td>
<td>55&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11½&quot;</td>
<td>115&quot;</td>
<td>11½&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>136&quot;</td>
<td>130&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Static Water Level for non-flowing well:** 18 feet.

**Shut-in Pressure for Flowing Well:** Not Applicable.

**Pumping Water Level:** 175 feet at 3.2 gal. per minute.

**Discharge in gal. per min. of flowing well:** Not Applicable

**How Tested:** Baler & pump

**Length of Test:** 8 hours

**Remarks:** (Gravel packing, cementing, pack-in, type of shutoff, hole reamed to 7½" diameter to 175 feet.)

Casing installed & gravel placed around casing from 125 foot level back to 17 foot level. Cements above 17 foot level.

(Continue on reverse side)

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

**Indicate location of well and place of use, if possible.**

**Show exact depth of bottom.**

---

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

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

Driller's License Number  
Robert Steners

Driller's Signature  
4/5/30
JAMES HEAD

TO

THE PUBLIC

NOTICE OF COMPLETION OF
GROUNDWATER APPROPRIATION

STATE OF MONTANA,
COUNTY OF HILL

FEB 26 1969

R. E. BLOM
COUNTY CLERK

fee: $2.00 paid
**Notice of Completion of Groundwater Appropriation by Means of Well**

**DEVELOPED AFTER JANUARY 1, 1962**

(Under Chapter 237, Montann Session Laws, 1961)

Owner: James Head
Address: Havre, Montana

Driller: Hi-Line Drilling Service
Address: Havre, Montana

Date of Notice of appropriation of groundwater: Sept. 24, 1962
Date well started: Sept. 26, 1962
Date completed: Sept. 26, 1962

Type of well: Drilled
Equipment used: Cable tool rig
(Dug, Driven, bored or drilled) (Churn drill, rotary or other)

Water use: Domestic  Stock  Irrigation

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 Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 5/8&quot;</td>
<td>6 1/8&quot;</td>
<td>13&quot; per ft</td>
<td>64</td>
</tr>
</tbody>
</table>

No perforations
Casing driven to top of sandstone at 64 feet
Sandstone left uncased.

Static Water Level for non-flowing well
20 feet.

Shut-in Pressure for Flowing Well
Pumping Water Level
10 gal. per minute.

Discharge in gal. per min. of flowing well
Not applicable.

How Tested: Baler & pump
Length of Test: 63 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) Cements used placed around casing to prevent surface contamination.

*(Continue on reverse side)*

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

Driller's License Number

Driller's Signature

Date: 4/5/62
NOTICE OF COMPLETION OF
GROUND WATER APPROPRIATION

STATE OF MONTANA
COUNTY OF HILL
Filed on 2/26/1969

FEB 26 1969
R. E. BLOM
COUNTY CLERK

fee: $2.00 paid
Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1963

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

Owner: EVERETT HOMER
Address: SPOKANE, WASHINGTON

Driller: HJLKE DRILLING SERVICE
Address: HARD, MONTANA

Date of Notice of appropriation of groundwater: AUGUST 15, 1968

Type of well: DRILLED
Equipment used: Dug, driven, bored or drilled

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>Stratum Description</th>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>Kind of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
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<tbody>
<tr>
<td>SANDY SHELLE</td>
<td>6'</td>
<td>96</td>
<td>14'</td>
<td>ABOVE GRAVEL</td>
<td>8'</td>
<td>33</td>
</tr>
<tr>
<td>BROWN SANDSTONE</td>
<td>6</td>
<td>75</td>
<td>6</td>
<td>PLASTIC</td>
<td>6</td>
<td>96</td>
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<tr>
<td>SANDY BROWN SANDSTONE</td>
<td>6</td>
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<td>HARD BROWN SANDSTONE</td>
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<td>SANDY GRAY SHELLE</td>
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<td>96</td>
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</tr>
</tbody>
</table>

Static Water Level for non-flowing well 13 feet.
Shut-in Pressure for Flowing Well: 174 pounds per square inch.
Pumping Water Level: 22 feet at 7.6 gpm.
Discharge in gal. per min. of flowing well: 7.6 gpm.
How Tested: Pump.
Length of Test: 8 hours.
Remarks: (Gravel packing, cementing, packers, etc., type of houtf in drilled well)

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, three copy to be retained by driller.

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

NOTICE OF COMPLETION OF
GROUNDWATER APPROPRIATION

KATHRYN HOMAD

MONTANA
COUNTY OF HILL

$100.00 received

1-5-1969

R. H. BLOM
COUNTY CLERK

DEPUTY

fees $52.00 paid
Declaration of Vested Groundwater Rights
(Under Chapter 337, Montana Session Laws, 1961)

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

1. (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:

   2. The beneficial use on which the claim is based:

   ______________

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

   ______________

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

   ______________

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

   ______________

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

   ______________

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

   ______________

   8. The depth of water table:

   ______________

   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:

   ______________

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

   ______________

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

   ______________

   Signature of Owner: ______________

   Date: ______________

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.
TINA H. JONES

TO

THE PUBLIC

DECLARATION OF VESTED GROUND
WATER RIGHTS

STATE OF MONTANA,
COUNTY OF HILL
Filed at 12 o'clock, P.M.,
ON MAY 8, 1963
R. E. Bloom
County Clerk

396103
# WATER WELL LOG

<table>
<thead>
<tr>
<th>Owner</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
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<table>
<thead>
<tr>
<th>Driller</th>
<th>Address</th>
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<tbody>
<tr>
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<table>
<thead>
<tr>
<th>Date Started</th>
<th>Date Completed</th>
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<tr>
<th>Location: Sec T R sec</th>
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<table>
<thead>
<tr>
<th>Type of well</th>
<th>Equipment used</th>
</tr>
</thead>
<tbody>
<tr>
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<table>
<thead>
<tr>
<th>Water use:</th>
<th>Domestic</th>
<th>Municipal</th>
<th>Stock</th>
<th>Irrigation</th>
</tr>
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<tbody>
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<table>
<thead>
<tr>
<th>Industrial</th>
<th>Drainage</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
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<table>
<thead>
<tr>
<th>Casing: ft. to ft.</th>
<th>Type</th>
<th>Size</th>
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<tbody>
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<th>Casing: ft. to ft.</th>
<th>Type</th>
<th>Size</th>
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<tbody>
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</table>

<table>
<thead>
<tr>
<th>Perforated to ft. to ft.</th>
<th>Fl. to fl. to ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Type of perforations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Static Water level, for non-flowing well:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Shut-in pressure, for flowing well:</th>
</tr>
</thead>
<tbody>
<tr>
<td>-------------------------------------</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pumping water level</th>
<th>gal. per min.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>How tested:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Length of test:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(over)</td>
</tr>
</tbody>
</table>
### WATER WELL LOG

**Owner:**

**Address:**

**Driller:**

**Address:**

**Date Started:**

**Date Completed:**

**Location:**

**Type of Well Drilled:**

**Equipment Used:**

**Water Use:**

**Casing:**

**Perforated To:**

**Type of Perforations:**

**Static Water Level:**

**Shut-In Pressure:**

**Pumping Water Level:**

**How Tested:**

**Length of Test:**

**Remarks:**

---

**RECEIVED**

DEC 5 1958

STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY

BILLINGS, MONTANA

---

**COUNTY:**

**WATER WELL LOG**

**Owner:**

**Address:**

**Driller:**

**Address:**

**Date Started:**

**Date Completed:**

**Location:**

**Type of Well Drilled:**

**Equipment Used:**

**Water Use:**

**Casing:**

**Perforated To:**

**Type of Perforations:**

**Static Water Level:**

**Shut-In Pressure:**

**Pumping Water Level:**

**How Tested:**

**Length of Test:**

**Remarks:**

---

**STATE ENGINEER**

MONTANA BUREAU OF MINES AND GEOLOGY

BILLINGS, MONTANA
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 33</td>
<td>Brown sand</td>
</tr>
<tr>
<td>33 - 50</td>
<td>Gravel sand</td>
</tr>
<tr>
<td>50 - 54</td>
<td>Gravel sand, water</td>
</tr>
<tr>
<td>54 - 74</td>
<td>Gray black shale (Slaggel)</td>
</tr>
</tbody>
</table>
**STATE OF MONTANA, COUNTY OF HILL**

**Filed at 11:20 o'clock a.m.**

**ON DEC 4 1958**

---

<p>| | | | | | | |</p>
<table>
<thead>
<tr>
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</tr>
</tbody>
</table>

---

**By**

---

**COUNTY CLERK**

---

**DEPUTY**
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Miss Alma E. Larson of House
County of Hull 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: House

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 3 gal per min

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1941 4th day of January

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 ft 10 ft 10 ft

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:

Signature of Owner: House
Date: Sept 6 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.
MRS. ELVINA E. LARSON

TO

THE PUBLIC

DECLARATION OF VESTED
GROUNDWATER RIGHTS

STATE OF MONTANA, ss.
COUNTY OF HILL
Filed at 10:10 o'clock
ON SEP 6 1963

Fee: $2.00 pt
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: MRS. THEO. LARSON
Address: 418 7TH Ave. No. File 1339,3, HELL TOWN.
Date well started: 1/29/47
Type of well: DRILLED
Equipment used: CABLE TOOL RIG

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

PERFORATIONS

King No. JOHNSON STAINLESS STEEL
304 TRANSVERSE TYPE 6" A/C STAINLESS STEEL
INVERT SORCED CONSISTING OF 3/8" INSIDE PIPE, 3/4" STAINLESS STEEL 304 4" FT. FROM BOTTOM
OF 5/8" CAVITY OVERALL LENGTH OF 3' 9" INSTALLED FROM TOP TO 8' 11" FROM BOTTOM
LEVEL OR SOFT TO 83' FT.

OBSERVED (NOT INCHES) 11 ft.
Static water level 17 ft.
Pumping water level 10 ft.
at 10 gallons per minute, measured 10 minutes after pumping
began.

*Measured from ground level.

Well developed by: BACAL, ARTHUR
Power Source: 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: J. F. ASH - BILL ASH DRILLING SERVICE
Address: 1173, 6TH St. N

Top of Ground
Below sea level

<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>15</td>
</tr>
<tr>
<td>15</td>
<td>30</td>
</tr>
</tbody>
</table>

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

Driller's Signature: J. F. ASH
Driller's Address: 1173, 6TH St. N

Hamre, Montana
License No. 46

5906
WATER WELL

MRS. THEO LARSON

TO

THE PUBLIC

State of Montana,
County of Hill.

Date: Mar 7, 1972

Fee: $2.00 pd.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

1. (Name of Appropriator) (Address) (Town)
   County of State of Have appropriated groundwater according to the Montana laws in effect prior to Jan.
   1, 1962 as follows:

2. The beneficial use on which the claim is based

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

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

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

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

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

8. The depth of water table

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

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

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

Signature of Owner

Date

Three copies to be filed by the owner with the County Clerk & 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 & Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.
397135

HARVE HOMPE LUCAS

TO

THE PUBLIC

DECLARATION OF VESTED GEOCHEMICAL RIGHTS

STATE OF MONTANA,
COUNTY OF HILL
Filed at 11 o'clock AM

1963

DEPUTY

REC: $2.00 pd.
1. **NAME OF APPROPRIATOR** (Name of Appropriator)  
   **ADDRESS** (Address)  
   **TOWN** (Town)  
   **COUNTY** (County)  
   **STATE** (State)  
   **RATIONALE** (County of)  
   **STATE** (State of)  
   Have appropriated groundwater according to the Montana laws in effect prior to Jan. 1, 1962 as follows:

2. **THE BENEFICIAL USE ON WHICH THE CLAIM IS BASED**

3. **DATE OR APPROXIMATE DATE OF EARLIEST BENEFICIAL USE; AND HOW CONTINUOUS THE USE HAS BEEN**

4. **THE AMOUNT OF GROUNDWATER CLAIMED (IN MINER'S INCHES OR GALLONS PER MINUTE)**

5. **IF USED FOR IRRIGATION, GIVE THE ACREAGE AND DESCRIPTION OF THE LANDS TO WHICH WATER HAS BEEN APPLIED AND NAME OF THE OWNER THEREOF**

6. **THE MEANS OF WITHDRAWING SUCH WATER FROM THE GROUND AND THE LOCATION OF EACH WELL OR OTHER MEANS OF WITHDRAWAL**

7. **THE DATE OF COMMENCEMENT AND COMPLETION OF THE CONSTRUCTION OF THE WELL, WELLS, OR OTHER WORKS FOR WITHDRAWAL OF GROUNDWATER**

8. **THE DEPTH OF WATER TABLE**

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**

11. **THE LOG OF FORMATIONS ENCOUNTERED IN THE DRILLING OF EACH WELL IF AVAILABLE**

12. **SUCH OTHER INFORMATION OF A SIMILAR NATURE AS MAY BE USEFUL IN CARRYING OUT THE POLICY OF THIS ACT, INCLUDING REFERENCE TO BOOK AND PAGE OF ANY COUNTY RECORD**

---

**Signature of Owner**

**Date**

---

Three copies to be filed by the owner with the County Clerk & 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 & Recorder; duplicate to the State Engineer; triplicate to the School of Mines and quadruplicate for the Appropriator.
397217

L. D. HC Fadden

To

The Public

Declaration of Vested Groundwater Rights

State of Montana.  
County of Hill

Filed et al. order is

On 3-1-1963

[Signature]

County Clerk

Deputy

FEE: $2.00 pd.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

[Name of Appropriator] of [Address] (Town)
County of [County] State of [State]

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

1. [Diagram of groundwater claim]

2. The beneficial use on which the claim is based:

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

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

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

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

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

8. The depth of water table:

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:

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

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

Signature of Owner:

Date:

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.
CAPTAIN H. M. REE

TO

THE PUBLIC

DEPARTMENT OF TERRITORY

GROUND RIGHTS

STATE OF MONTANA

COUNTY OF BILL

DEED OFFICE 11 A.M.

Day: 11th of July 1963

R. E. Blom

RECEIVED

Fee $2,00.00 pd.
Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

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

Owner: Mrs. Esther Naber
Address: 562 5th St., Havre

Driller: Mt-Line Drilling Service
Address: Havre, Montana

Date of Notice of appropriation of groundwater:

Date well started: 11/20/69
Date completed: 11/22/69

Type of well: Drilled
Equipment used: Cable Tool Rig

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, 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</th>
<th>Size and</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dug Hole</td>
<td>and Weight of</td>
<td>(Feet)</td>
<td>(Feet)</td>
</tr>
</tbody>
</table>

6 5/8" 6 5/8" O.D. 1 ft. 18 ft. above
134 per ft. ground
level

PERFORATIONS

<table>
<thead>
<tr>
<th>Kind</th>
<th>Size</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>N.P.</td>
<td>1/2&quot;</td>
<td>56 ft.</td>
<td>56 ft.</td>
</tr>
</tbody>
</table>

No perforations. Water coming thru bottom of drive collar at 56 ft.

Static Water Level for non-flowing well

12 feet

Shut-in Pressure for Flowing Well

Not applicable

Pumping Water Level

23 feet

at 13 gal. per minute.

Discharge in gal. per min. of flowing well

Not applicable

How Tested

Test Pump

Length of Test

3 hours

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

(Continues on reverse side)

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

Driller’s License Number

Driller’s Signature

46594
MRS. ESTHER NABER

TO

THE PUBLIC

COMPLETION OF GROUNDWATER
APPROPRIATION

STATE OF MONTANA,
COUNTY OF HILL
Filed at 11:00 a.m., June 18, 1970

R. E. BLUM

COUNTY CLERK

fee: $2.00 paid
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  
CHARLES A. NELSON

Address  
337 STH St. No
HALE, MONTANA

Date well started  
11/14/69

Date well completed  
11/29/69

Type of well  
DRILLED

Equipment used  
CABLE TOOL K16

Water Use: Domestic ☑ Municipal ☐ Stock ☐ Irrigation ☐

Industrial ☐ Drainage ☐ Other ☐ Garden/Lawn ☐

Describe  
MACHINE K WELDING SHOP

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 EXCEEDING 300,000 GALLONS

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Drill</th>
<th>Depth From Surface (Feet)</th>
<th>Kind of Perforations</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9&quot;</td>
<td>6/150 Lbs.</td>
<td>10'</td>
<td>17</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>6/4&quot; to 6.5</td>
<td>1/200 Lbs.</td>
<td>10'</td>
<td>31/2&quot; Drilled</td>
<td>37</td>
</tr>
</tbody>
</table>

Static water level 39 ft.∗
Pumping water level 78 ft.∗

Remarks: (Gravel packing, casing, pumping, etc.)

Power Source: Electric Pump

Mark on Surface Contamination

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.

Each small square represents 40 acres.

Driller's Signature  
HUNT BOWERS HI-LINE DRILLING SERVICE

Driller's Address  
4419 6TH St. No
HALE, MONTANA 59501 ... LICENSE NO. 46

County  
HILL

53.856
428324

CHARLES A. NELSON

TO

THE PUBLIC

WATER WELL

STATE OF MONTANA SS.
COUNTY OF HILL
Filed at 12:15 o'clock P.M.
ON JUN 25 1973

R. E. Bloom
COUNTY CLERK
by

Fee: $2.00 pd.
## WATER WELL LOG

**Owner:** Hannah Nelson  
**Address:** 226 North Side, Havre

**Driller:** Herbert Freier  
**Address:** 281 N State St., Havre

**Date Started:** October 25, 1961  
**Date Completed:** October 26, 1961

**Location:** Sec. 5, T. 32 N, R. 16 E, W. 1/2 Section

**Type of well:** Drilled

**Equipment used:** Churn Drill

**Water use:** Domestic ☑️  
Municipal ☐  
Stock ☐  
Irrigation ☐

**Water use:** Domestic ☐  
Municipal ☐  
Stock ☜  
Irrigation ☐

<table>
<thead>
<tr>
<th>Casing</th>
<th>Type</th>
<th>Size</th>
</tr>
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<tbody>
<tr>
<td>0 ft. to 52 ft.</td>
<td>Spang-seamless</td>
<td>7&quot;</td>
</tr>
<tr>
<td>59 ft. to 72 ft.</td>
<td>Spang-seamless</td>
<td>5 1/2&quot;</td>
</tr>
</tbody>
</table>

**Perforated or Screened:** 50 ft. to 70 ft.  
**Type of screen or perforations:** 1/4" x 5" Perforations

**Static Water level, for non-flowing well:** 20 feet.

**Shut-in pressure, for flowing well:** 15 lb. sq. in.  
**Pumping water level:** 60 feet at 16 gal. per min.

**How tested:** Salin

**Length of test:** 1 1/2 hours

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

---

Drilled by Ernest Lee

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>To</td>
</tr>
<tr>
<td>0</td>
<td>15 Sandy Clay—Gravel</td>
</tr>
<tr>
<td>15</td>
<td>43 Quick-sand</td>
</tr>
<tr>
<td>45</td>
<td>48 Soft Blue Clay</td>
</tr>
<tr>
<td>48</td>
<td>63 Grey Clay</td>
</tr>
<tr>
<td>53</td>
<td>63 Yellow Clay</td>
</tr>
<tr>
<td>63</td>
<td>71 Sandstone—Water—Approx. 18 gal. per min.</td>
</tr>
<tr>
<td>71</td>
<td>72 Blue-Grey Shale</td>
</tr>
<tr>
<td>Depth</td>
<td>Description</td>
</tr>
<tr>
<td>-------</td>
<td>----------------------</td>
</tr>
<tr>
<td>55</td>
<td>Yellow Clay</td>
</tr>
<tr>
<td>65</td>
<td>Sandstone–Inter–Gray</td>
</tr>
<tr>
<td>71</td>
<td>Inter–Gray</td>
</tr>
<tr>
<td>72</td>
<td>Blue–Gray Slate</td>
</tr>
</tbody>
</table>
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well
(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater

Owner: John Browville
Address: 2-T-8, Paradise

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.

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.

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

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.
JOHN NEUMILLER

TO

THE PUBLIC

NOTICE OF COMPLETION OF GROUND WATER APPROPRIATION WITHOUT WELL.

STATE OF MONTANA,
COUNTY OF HILL
Filed at 11:30 o'clock P.M.
ON AUG 7 1963

S. E. Mon.
COUNTY CLERK

Fee: $2.00 pd.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

I. (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:

2. The beneficial use on which the claim is based
   Domestic

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 5/28/61

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 10 GPM at 30 Feet

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
   337 North Side of House
   East of House
   From (Foot) 0 To (Foot) 54

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 5/27/61 - 5/28/61

8. The depth of water table 54 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
   Size of Drilled Hole 5" Size of and Length of Casing 4" 11 Ft
   From (Foot) 0 To (Foot) 54

10. The estimated amount of groundwater withdrawn each year

11. The log of formations encountered in the drilling of each well if available
   1. top soil
   51 brown clay
   52 sand
   54 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

Signature of Owner
Date 12-10-63

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.
396529

FRANK PAPILLO

TO

THE PUBLIC

DECLARATION OF VESTED ROUND WATER RIGHTS

STATE OF MONTANA, )
COUNTY OF HILL )
Filed at .2 o'clock P.M.

ON 11 1963
R. E. Blom

PATENT

Fee: $2.00 pd.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. (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:

2. The beneficial use on which the claim is based

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

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

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

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

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

8. The depth of water table

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

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

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

Signature of Owner
Date

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

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