MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner: DOUBLE W RANCH
Address: Holmville, Montana

Driller: Bob Hudson
Address: Holmville, Montana

Date Started: Feb. 16, 1961
Date Completed: Feb. 28, 1961

Location: Sec. 20, T. 13 N., R. 11 W., Butte County, Montana

Type of well: Drilled
Equipment used: Churn drill

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

Casing: 0 ft. to 68 ft. Type: 1½ lbs. per. ft. Size: 6 in.
Casing: ft. to ft. Type: Size: ft. to ft.

Perforated or Screened: Ft. to 133 Ft. to ft.

Type of screen or perforations: None

Static Water level, for non-flowing well: 50 ft.
Shut-in pressure, for flowing well: lb./sq. in. on: date
Pumping water level: 68 ft. feet at gal. per min. 16 gal. per min.

How tested: Bailer
Length of test: 15 min.

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

(over)
# Log of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>clay</td>
</tr>
<tr>
<td>47</td>
<td>sandstone</td>
</tr>
<tr>
<td>57</td>
<td>clay</td>
</tr>
<tr>
<td>68</td>
<td>hardpan</td>
</tr>
<tr>
<td>133</td>
<td>granite, decomposed</td>
</tr>
</tbody>
</table>

By: [Signature]

At: Powell County, Montana

March 25th, 1959, 10 o'clock

[Stamp or seal]

Mater. Well Log

[Signature]
# Montana Bureau of Mines and Geology

**Butte, Montana**

## Water Well Log

**Owner**: John Smith  
**Address**: 123 Main St, Butte, MT

**Driller**: Bob Johnson  
**Address**: 456 Maple Ave, Butte, MT

**Date Started**: Dec. 1, 1960  
**Date Completed**: Dec. 15, 1960

**Location**: Sec. 21, T. 13 N., R. 11 W., 1/4 sec. SW 1/4, Sec. 21

<table>
<thead>
<tr>
<th>Type of Well Drilled</th>
<th>Equipment Used</th>
</tr>
</thead>
<tbody>
<tr>
<td>Churn Drill</td>
<td>(Churn drill, rotary, other)</td>
</tr>
</tbody>
</table>

**Water Use**

- Domestic [ ]
- Municipal [x]
- Stock [x]
- Irrigation [ ]
- Industrial [ ]
- Drainage [ ]
- Other: [ ]

**Casing**

- 0 ft. to 66 ft.  
- Type: 19 lbs.  
- Size: 6 in.

**Perforated or Screened**

- 0 ft. to 102 ft.  
- Type:  
- Size:  

**Static Water Level**

- For non-flowing well: 88 ft.

**Shut-in Pressure**

- For flowing well: lb./sq. in. on: [ ]

**Pumping Water Level**

- 90 feet at gal. per min. 64

**How Tested**: Bailor

**Length of Test**: 15 min.

**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 12</td>
<td>Torsm + clay</td>
</tr>
<tr>
<td>12 16</td>
<td>Gravel</td>
</tr>
<tr>
<td>16 86</td>
<td>Clay</td>
</tr>
<tr>
<td>86 162</td>
<td>Deeseraco Granite + Gravel</td>
</tr>
</tbody>
</table>

**POWELL COUNTY, MONTANA**

March 25th, 1961

[Signatures]

[Date]

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

STATE ENGINEER

1. Any Coop. Inc. of Helena, Mont.

County of Powell 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: Home use.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been from 1951: Continuous Use.

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 15 gal. Per Min.

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof: None.

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Started and Completed Jan. 1964.

8. The depth of water table: 50 ft. below.

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: None.

10. The estimated amount of groundwater withdrawn each year: 5,000 gal.

11. The log of formations encountered in the drilling of each well if available: None.

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: Henry Bass, Inc.

Date: Mar. 1, 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.
DECLARATION OF VESTED GROUND-WATER RIGHTS

GEARY BROS. INC.

RECEIVED
POWELL COUNTY, MONTANA

April 1st, 19 6
at minutes past 9:29 o'clock
A.M.

Daniel B. Hertz, Jr.
Clerk and Recorder

By Deputy

Fee $2.00 Paid
# 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
- **Name:** Bob Sackman
- **Address:** Helmville, Montana

Date well started: 9-7-72

Date well completed: 9-11-72

## Type of Well
- Drilled

## Equipment Used
- Churn Drill

## Water Use
- Domestic
- Irrigation

**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

<table>
<thead>
<tr>
<th>Top of Ground (Elev. above sea level)</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0'</td>
<td>7/2' top soil</td>
<td>85'</td>
</tr>
<tr>
<td>2'</td>
<td>15' sand &amp; gravel</td>
<td>water</td>
</tr>
<tr>
<td>19'</td>
<td>34' red clay</td>
<td>water</td>
</tr>
<tr>
<td>34'</td>
<td>48' tan clay</td>
<td>water</td>
</tr>
<tr>
<td>48'</td>
<td>65' heaving dirt sand</td>
<td>water</td>
</tr>
<tr>
<td>65'</td>
<td>76' black clay</td>
<td>water</td>
</tr>
<tr>
<td>70'</td>
<td>65' black shale &amp; sand</td>
<td>water</td>
</tr>
</tbody>
</table>

## Static Water Level
- **Elev. static water level:** 75'

**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
- O’Keefe Contracting Company
- 2804 Harvard Ave.

## Driller’s Address
- Butte, Montana 59701

**License No.:** 5

---

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

**Each small square represents 40 acres.**

**Driller’s Signature:**

**Driller’s Address:**
NOTICE OF COMPLETION OF GROUNDWATER
APPRIATION BY MEANS OF WELL

BOB SACKMAN

RECEIVED
POWELL COUNTY, MONTANA
FEBRUARY 1st, 1979
at ______ minutes past 10:30 o'clock
A.M.

By
Asst. Deputy

Fee $ 2.00
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

State Engineer

Owner: Kenneth S. Caughlin  Address: Hiteville, Mont.

Driller: Bob Hudson  Address:

Date Started: Oct 15, 1960  Date Completed: Oct 17, 1960

Location: Sec. 23  T. 13 N.  R. 11 W.  ¼ sec. 23 of SW ½

Type of well: Drilled

Equipment used: Churn drill

Water use: Domestic □  Municipal □  Stock □  Irrigation □

Industrial □  Drainage □  Other: ________________________________

Casing: Type 20 ft. to 52 ft.  Type  Black Iron  Size: 2 ½ x 10.

Casing: ft. to ft.  Type  Size: ________________________________

Casing: ft. to ft.  Type  Size: ________________________________

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

Type of screen or perforations: ________________________________

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

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

Pumping water level: __________________feet at: __________________gal. per min

How tested: see remarks

Length of test: ________________________________

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

This well is in the town of Hiteville and will be used for domestic purposes. It couldn't be pumped down with any available equipment, but only flows about a ½ in garden hose, used as a spigot. It is now capped.
### Log of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 ft</td>
<td>Top soil and gravel</td>
</tr>
<tr>
<td>14 ft</td>
<td>Clay</td>
</tr>
<tr>
<td>48 ft</td>
<td>Sand and gravel</td>
</tr>
<tr>
<td>50 ft</td>
<td>Gravel</td>
</tr>
</tbody>
</table>
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Heavy Bros, Inc. of Helena

County of Powell
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: Home use and stock water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1906

4. The amount of groundwater claimed (in miner's inches or gallons per minute): Not known

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: 1906

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: Heavy Bros, Inc.
Date: Jan. 1, 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.
DECLARATION OF VESTED GROUND-WATER RIGHTS

CEARY BROS. INC.

RECEIVED
POWELL COUNTY, MONTANA

April 1st, 1964
at 9:27 a.m.

Daniel B. Hertz, Jr.
Clerk and Recorder

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**

**Address**

**Date well started**

**Date well completed**

**Type of well**

**Equipment used**

**Water Use**

*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**

<table>
<thead>
<tr>
<th>Size of Hole</th>
<th>Size and Weight of casing</th>
<th>From (Foot)</th>
<th>To (Foot)</th>
<th>From (Foot)</th>
<th>To (Foot)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 7/8</td>
<td>5 8/6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Kind of perforations</th>
<th>From (Foot)</th>
<th>To (Foot)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Static water level</th>
<th>Pumping water level</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Measured from ground level.

Well developed by

for

Power:

Pump:

HP

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

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

 EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature

Driller's Address

LICENSE NO.

Show exact depth of bottom
October 21, 1970
11:00 a.m.
Elza McDonough

Deputy

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

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Sherry Bros. Inc. of Helena, Montana

County of Powell 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: Home use + Stock Water

3. Date or approximate date of earliest beneficial use, and how continuous the use has been:
   - 1975

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

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof: None

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

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

   All wells on same ranch site:

   - 1975
   - 1976
   - 1977
   - 1978

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:
   - 10 ft

10. The estimated amount of groundwater withdrawn each year: 0

11. The log of formations encountered in the drilling of each well if available: None

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: Sherry Bros. Inc.

Date: Mar. 1, 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 Approprietor.
DECLARATION OF VESTED GROUND-WATER RIGHTS

GEARY BROS. INC.

RECEIVED
POWELL COUNTY, MONTANA

April 1st, 1964
at____ minutes past __ o'clock
A.M.
Daniel B. Hertz, Jr.
Clerk and Recorder

By______________________ Deputy

Fee $ 2.00 Paid
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

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

Owner: Powell County Shop
Address: Helena, Montana

Driller: Keeffe Drilling Co.
Address: Butte, Montana

Date of Notice of appropriation of groundwater: August 26, 1968
Date well started: August 19, 1968
Date well completed: August 20, 1968

Type of well: Drilled
Equipment used: churn drill
Water use: Domestic [X] Municipal [ ] Stock [X] 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>Character of Water-Bearing Strata</th>
</tr>
</thead>
<tbody>
<tr>
<td>0'–2' top soil</td>
<td>2'–15' gravel</td>
</tr>
<tr>
<td>10'</td>
<td>15'–25' sandy clay</td>
</tr>
<tr>
<td>20'</td>
<td>25'–53' water-sand &amp; gravel</td>
</tr>
</tbody>
</table>

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 two hours

Length of Test

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

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

Show exact depth of bottom.

53' 53' 53'

This form to be prepared by driller, and three copies to be filled 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

Driller's Signature
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

POWELL COUNTY SHOP
(Helmville)

RECEIVED
POWELL COUNTY, MONTANA

September 11th, 1968
at __ minutes past __ o'clock
M. A.

Elfa McDonough
First and Recorder

By ____________ Deputy

Fae. B.
## WATER WELL LOG

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner</td>
<td>FRANCES POTTS</td>
</tr>
<tr>
<td>Address</td>
<td>HELMVILLE, MONT.</td>
</tr>
<tr>
<td>Driller</td>
<td>Bob HUDSON</td>
</tr>
<tr>
<td>Address</td>
<td>SWAN LAKE, MONT.</td>
</tr>
<tr>
<td>Date Started</td>
<td>OCT 16, 1957</td>
</tr>
<tr>
<td>Date Completed</td>
<td>OCT 17, 1957</td>
</tr>
<tr>
<td>Location</td>
<td>Sec. 23, T. 18 N., R. 11 W., 4th sec.</td>
</tr>
<tr>
<td>Type of well</td>
<td>DRILLED (Dug, driven, bored, or drilled)</td>
</tr>
<tr>
<td>Equipment used</td>
<td>Churn Drill (Churn drill, rotary, other)</td>
</tr>
<tr>
<td>Water use</td>
<td>Domestic [X], Municipal [ ], Stock [ ], Irrigation [ ]</td>
</tr>
<tr>
<td>Industrial [ ], Drainage [ ], Other: [ ]</td>
<td></td>
</tr>
<tr>
<td>Casing: 0 ft. to 37 ft.</td>
<td>Type Galvanized, Size 4&quot; - 6&quot;</td>
</tr>
<tr>
<td>Casing:</td>
<td>Type</td>
</tr>
<tr>
<td>Casing:</td>
<td>Type</td>
</tr>
<tr>
<td>Perforated or Screened:</td>
<td>Ft. to Ft.</td>
</tr>
<tr>
<td>Type of screen or perforations:</td>
<td></td>
</tr>
<tr>
<td>Static Water level, for non-flowing well:</td>
<td>Ground level</td>
</tr>
<tr>
<td>Shut-in pressure, for flowing well:</td>
<td></td>
</tr>
<tr>
<td>Pumping water level:</td>
<td>19 feet at 25 gal. per min.</td>
</tr>
<tr>
<td>How tested:</td>
<td>Boiler</td>
</tr>
<tr>
<td>Length of test:</td>
<td>1/6</td>
</tr>
<tr>
<td>Remarks:</td>
<td>(Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</td>
</tr>
<tr>
<td>Ground level:</td>
<td>Approaches, type of shut-off, four feet under ground level.</td>
</tr>
<tr>
<td>(or 4')</td>
<td></td>
</tr>
<tr>
<td>Depth, feet</td>
<td>Description of Material Drilled</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>0 - 8</td>
<td>Top soil gravel</td>
</tr>
<tr>
<td>8 - 37</td>
<td>Clay</td>
</tr>
<tr>
<td>37 - 39</td>
<td>Sandstone &amp; gravel</td>
</tr>
</tbody>
</table>
Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

Under Chapter 237, Montana Session Laws, 1961

Owner: Helmville Store
Address: Helmville, Montana

Driller: Liberty Drilling Co.
Address: Missoula, Montana

Date of Notice of appropriation of groundwater: None filed

Date well started: 9/11/67
Date completed: 9/12/67

Type of well: Drilled
Equipment used: Cable Tools

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 Weight of Casing</th>
<th>From</th>
<th>To</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>60'</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well 14 feet.

Shut-in Pressure for Flowing Well Non-flowing.
Pumping Water Level 42 feet at 30 gal. per minute.

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

How Tested: Air Lift Pump

Length of Test 1½ hrs.

Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entering well is coming through the open bottom of six inch casing. Wells in this area can be depended upon to produce clear sand free water year after year as long as they are not overpumped, i.e. they should be pumped at rates less than 25 ft³ per minute. 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 60'
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

JAMES W. COUGHLIN et ux

RECEIVED
POWELL COUNTY, MONTANA
November 2nd, 1967
at ______ minutes past 3:00 o'clock
P. M.

Elsa McDonough
Clerk and Recorder
By. __________________________
Deputy

Fee $2.00 paid
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. E. C. Ellsworth, of Helenville, Powell County, Montana
   (Name of Appropriator) (Address) (Town)

   County of Helenville, Powell
   State of Montana

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

   Well located in the town of Helenville, Powell County, Montana

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

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

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been
      8-28-58 - continuous domestic use

   4. The amount of groundwater claimed (in miner’s inches or gallons per minute) - 100-gallons per minute

   5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
      Not applicable

   6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
      Pump-installed in residence

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
      Well was commenced 8-27-58 and completed 8-28-58.

   8. The depth of water table
      10-feet

   9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
      Drilled well 45 feet deep - 6 inch casing

   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
      Not available

   12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record
      Other information not available.

   Signature of Owner

   Date 10/31/63

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
DECLARATION OF VESTED GROUND-WATER RIGHTS

E. C. Ellsworth

RECEIVED
POWELL COUNTY, MONTANA

December 31st, 1963,
at minutes past P.M.

Daniel B. Hertz, Jr.
Clerk and Recorder

By Deputy

See $2.00 Paid
**Notice of Completion of Groundwater Appropriation by Means of Well**

(Under Chapter 237, Montana Session Laws, 1961)

**Owner**: Tim McDermid  
**Address**: Holmville, Mont.

**Driller**: Glenn Camp  
**Address**: Holmville, Mont.

**Date of Notice of Appropriation of Groundwater**:  
**Date well started**: 7/25/62  
**Date Completed**: 9/17/62

**Type of well**: Drilled  
**Equipment Used**: Churn drill

**Water Use**: Domestic  
**Water Use**: Municipal  
**Water Use**: Other  
**Irrigation**:  
**Industrial**:  
**Drainage**:  
**Stock**:  

**Game**

| Rise of Static Water Level for non-flowing Well: | 49 feet. |
| Shut-in Pressure for Flowing Well: | 9 lbs. |
| Pumping Water Level: | ... feet at ... gal. per minute. |
| Discharge in gal. per min. of flowing well: | ... 30 G.P.M. |
| How Tested: | ... Length of Test: |

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

**6" casing put in for 65' with 6" set inside and cemented in.**

**Licence #**: 7  
**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.

2007.
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

POWELL COUNTY, MONTANA

August 22nd, 1962
at ______ minutes past ______ O'clock

P.M.

Daniel B. Heitz, Jr.
Clerk and Recorder

By __________________________
Deputy

Fee $2.00
Mr. Daniel B. Hertz, Jr.
County Clerk and Recorder
Deer Lodge, Montana

Dear Mr. Hertz:

We are returning your No. 70798, which is the report of a well of Mrs. Eva McCormick, because the driller failed to give any indication of the location of the well. If the original has any location information, will you please copy it on the enclosed copy and return it to us?

Very truly yours,

FRED E. BUCK
STATE ENGINEER

CS Heidel
By: C. S. Heidel
Deputy State Engineer

Duplicate copy is the same as the original on record. NO LOCATION INDICATED.
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: Dec. 29-63
Owner:
Address: Willoughby
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: Dec. 29-63

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.
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

NEIL SPIEKER

RECEIVED
POWELL COUNTY, MONTANA

December 30th, 1963
at minutes past 3:07 o'clock
P.M.

Daniel B. Hertz, Jr.
Clerk and Recorder

By Deputy

Fee $2.00 Paid
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

(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 Livestock  

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: Information not available

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 2.5 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: Information not available

8. The depth of water table: 40 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: 50,000 gallons

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

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

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.
DECLARATION OF VESTED GROUNDWATER RIGHTS

MRS. M. D. (MINCEY W.) BLANKINSHIP

RECEIVED
POWELL COUNTY, MONTANA

December 31st, 1963
at _______ minutes past ______ o'clock
P.M.

Daniel B. Hertz, Jr.
Clerk and Recorder

By ____________________________
Deputy

Fee $ 2.00 Paid
STATE OF MONTANA
MONTANA DEPARTMENT OF NATURAL RESOURCES
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 filled 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. K.D. Blankenship
Address: Helmville, Montana
Date well started: July 28, 1970

Type of well: drilled
Equipment used: churn drill

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

<table>
<thead>
<tr>
<th>Size of Hole</th>
<th>Size and Weight of Drill</th>
<th>Penetration From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>6 1/8&quot; Od</td>
<td>.250</td>
<td>41'</td>
<td>cutting torch</td>
</tr>
<tr>
<td></td>
<td>5 3/8&quot; Od</td>
<td>.250</td>
<td>33'</td>
<td></td>
</tr>
</tbody>
</table>

Static water level ...........................................
Pumping water level .........................................

*Measured from ground level. Well developed by drilling for _____ hours.

Power: Pump: HP
Remarks: Gravel packing, cementing, packers, type of shutoff

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

Driller's Signature: O. Reese Contracting Company
Driller's Address: 2601 Harvard Ave.

Butte, Montana LICENSE NO. 8

51,269
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Mrs. M. D. Blankenship

RECEIVED
POWELL COUNTY, MONTANA
August 29th, 1972

Received
By

At p.m.

P.O. Box 200

$ 2.00
**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. M. D. Blankenheim

**Address:** Belgrade, Montana 59714

**Date well started:** 10/26/78

**Type of well:** Drilled

**Equipment used:** Churn drill

**Water Use:** Domestic

---

**ESTIMATED ANNUAL WITHDRAWAL**

<table>
<thead>
<tr>
<th>Top of Ground</th>
<th>From (Foot)</th>
<th>To (Foot)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6' 2'</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Static water level:** 2' 5' ft.

**Pumping water level:** 2' 6' ft.

*Measured from ground level.

Well developed by _______ for _______ hours.

Power: _______ HP

Remarks: (Gravel packing, cementing, packers, type of shutter)

---

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

Each small square represents 40 acres.

![Diagram of well location]

**Driller's Signature:** ____________________________

**Driller's Address:** 3004 Harvard Ave.

**Driller’s Log:**

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

---

**County:** ____________________________

**License No.:** ____________________________

47945
RECEIVED
POWELL COUNTY, MONTANA
December 23rd 1970
At ___________ minutes past 10:20 o'clock
________________
Deputy

________________
Clerk and Recorder

Fee $_________
Declaration of Vested Groundwater Rights

(Miney W. Blankenbush)

County of Boone

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: December 31, 1956

4. The amount of groundwater claimed (in minea: inches or gallons per minute): 2.5 gallons per minute

5. If used for irrigation, give the average and description of the lands to which water has been applied and name of the owner thereof: Home, Garden, Flower Gardens, etc.

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, walls, or other works for withdrawal of groundwater: October 1, 1957-Completed October 1, 1957

8. The depth of water table: 40 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: Sand and gravel

10. The estimated amount of groundwater withdrawn each year: 200,000

11. The log of formations encountered in the drilling of each well if available: None

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: Well on property of miney W. Blankenbush

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.
DECLARATION OF VESTED GROUNDWATER RIGHTS

MRS. M. D. (NINCEY W.) BLANKINSHIP

RECEIVED
POWELL COUNTY, MONTANA
December 31st, 1963
at ___ minutes past ___ o'clock
P. M.
Daniel B. Hertz, Jr.
Clerk and Recorder

Fee $2.00 Paid
STATE OF MONTANA:
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

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

DRILLER'S LICENSE NUMBER

OWNER: Mrs. Keller
ADDRESS: Helvville

DRILLER: Kaesler Drilling Co.
ADDRESS: Butte, Montana

Date of Notice of Appropriation of groundwater: August 26, 1968
Date well started: August 19, 1968
Date completed: August 17, 1968

Type of well: 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, 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 Cutting</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>6 5/8&quot;</td>
<td>17.02 lb</td>
<td>0'</td>
<td>113' cutting torch 109' 112'</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well: 12' feet
Shut-in Pressure for Flowing Well:...
gal. per minute.
Pumping Water Level: 28' feet at...
gal. per min. of flowing well...

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

How Tested: compressor or test pump
Length of Test: 3 hrs
Remarks: (Gravel packing, cementing, packers, type of shutoff)

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

80'-100' water, sand-heaving
100'-110'...
110'-113' water sand

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.
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

MARGUERITE T. HELLER

RECEIVED
POWELL COUNTY, MONTANA
September 17th 19 68
at minutes past 10:15 o'clock
A. M.
Elsa McDonough
Clerk and Recorder
By
Deputy

Fee $
## MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

### WATER WELL LOG

<table>
<thead>
<tr>
<th>Owner</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ernest Stout</td>
<td>Helmville, Mont.</td>
</tr>
<tr>
<td>Driller</td>
<td>Box 47</td>
</tr>
<tr>
<td>John Russell</td>
<td>204 Burlington Ave.</td>
</tr>
<tr>
<td>Missoula, Mont.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date Started</th>
<th>Date Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sometime in October 1963</td>
<td>(date)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Location</th>
<th>Sec.</th>
<th>T.</th>
<th>R.</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>13 N</td>
<td>11 W</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Equipment used</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drilled</td>
<td>Cable-tool rig</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Water use</th>
<th>Domestic</th>
<th>Municipal</th>
<th>Stock</th>
<th>Irrigation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>[✓]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Casing:</th>
<th>0 ft. to 54 ft.</th>
<th>Type 25 lbs/ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>5 In. Dia.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Casing:</th>
<th>54 ft. to 84 ft.</th>
<th>Type 25 lbs/ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>5 In. Dia.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Perforated or Screened:</th>
<th>84 ft. to 115 ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of screen or perforations</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Static Water level, for non-flowing well:</th>
<th>6 ft. below collar of well</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>feet</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Shut-in pressure, for flowing well:</th>
<th>lb./sq. in. on:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(date)</td>
</tr>
</tbody>
</table>

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

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

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

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

(over)
Log of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Exact log is unknown, but most of it was through gravels and clays.</td>
</tr>
</tbody>
</table>

RECEIVED
POWELL COUNTY, MONTANA

Signature: ____________________________

Date: ____________________________

Time: ____________________________

Received by: ____________________________

Certified by: ____________________________
<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>Javor, Julius + Matel</td>
<td>Gwy</td>
<td>314775</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>Cockran Ranch</td>
<td>Gwy</td>
<td>73203</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>Cockran Ranch</td>
<td>Gwy</td>
<td>73201</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>Manier, C. D., Ranch</td>
<td>Gwy</td>
<td>72322</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>Manier, C. D., Ranch</td>
<td>Gwy</td>
<td>72323</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>Midkirk, Thomas K.</td>
<td>Gwy</td>
<td>72726</td>
<td></td>
</tr>
</tbody>
</table>
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 [County] State of [State]
   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: [Use]

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

   4. The amount of groundwater claimed (in miner's inches or gallons per minute): [Gallons/Minute]

   5. For irrigation, give the acreage and description of the land to which water has been applied and name of the owner: [Acreage] [Owner]

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

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

   8. The depth of water table: [Depth]

   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: [Specifications]

   10. The estimated amount of groundwater withdrawn each year: [Estimate]

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

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

   Signature of Owner: [Signature]
   Date: [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 received and filed this instrument for record on the 23rd day of December 1943 at 11:00 o'clock a.m., P.M., permanent files of Missoula County, State of Montana.

Witness, my hand:

MARTIN S. BEARER, County Recorder

[Signature]

[Date]
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 DEC 26, 1963
Owner COCHRAN RANCH Address HELMVILLE
Contractor (if any) SEC
Address of Contractor
Date Started NOV 11 Date Completed JUNE 63
Describes means of obtaining groundwater without a well “as by sub-irrigation and other natural processes”. Include depth to water when applicable. SUB-IRRIGATION AND FLOODED IRRIGATION FROM DRAIN DITCHES WATER LEVEL ABOUT 24”

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use. ABOUT 500 MINERS INCHES DEVELOPED AND USED FOR IRRIGATION MAY 10-JULY 10 ABOUT 500 MIL AVAILABLE FOR

Stock WATER YEAR ROUND

Signature of Owner COCHRAN RANCH

Date DEC 26 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.
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

COCHRAN RANCH
(Joseph E. Cochran, Selma Cochran,
David T. Cochran)

RECEIVED
POWELL COUNTY, MONTANA
January 15th, 1966
at minutes past 9:35 o'clock
A.M.
Daniel B. Hertz, Jr.
Clerk and Recorder

By
Deputy

Fee $2.00 Paid
DECLARATION OF VESTED GROUNDWATER RIGHTS

(Under Chapter 237, Montana Session Laws, 1961)

1. We declare... 
   (Name of Appropriator)
   (Address)
   (County)
   (State)

   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 Hold
   AND LIVESTOCK

3. Date or approximate date of earliest beneficial use; and how continuous the use has been... 
   ABOUT 1870
   CONTINUED

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

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof... 
   1/4 ACRE YARD AND GARDEN
   1/2 ACRE

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater... 
   NOT KNOWN

8. The depth of water table... 
   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... 
   DUG WELL
   ROCK OPENING

10. The estimated amount of groundwater withdrawn each year... 
    50 M. I.

11. The log of formations encountered in the drilling of each well if available... 
    NOT AVAILABLE

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record... 
    [Signature]
    [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.
DECLARATION OF VESTED GROUND-WATER RIGHTS

COCHRAN RANCH
(Joseph E. Cochran, Selma Cochran, David T. Cochran)

RECEIVED
POWELL COUNTY, MONTANA
January 15th, 1964
at __________ minutes past 9:30 o'clock
A.M.
Daniel B. Hertz, Jr.
Clerk and Recorder

By _____________________________
Deputy

Fee $2.00 Paid
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

STATE ENGINEER

1. C. H. N. Mannix Ranch of Helena, Montana

Count of Powell
State of Montana

have appropriated groundwater according to the Montana laws in effect prior to January 1, 1963, as follows:

2. The beneficial use on which the claim is based
   House hold Use

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
   1959

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
   Pump & Well 6:11

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
   1959

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
   Drilled 6" Casing 71' deep

10. The estimated amount of groundwater withdrawn each year
   36,700.9 g

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

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

Signature of Owner: C. H. N. Mannix Ranch
Date: March 18, 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.

5683
DECLARATION OF VESTED GROUND-LATER RIGHTS

C. N. MANNIX RANCH

RECEIVED
POWELL COUNTY, MONTANA

August 28th, 1963
at_____ minutes past 2:30 o'clock
P.M.
Daniel B. Hertz, Jr.
Clerk and Recorder

By_____________________________ Deputy

Fee $2.00 Paid
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

C. N. Mannix Ranch, of Helena, Mont.
(Name of Appropriator) (Address)

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 Use + Stock Water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. Was a hand dug well. Well was drilled in 1840.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 7 gallons

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: Fat Pump - 15′ well

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Same Time Before 1900

8. The depth of water table 15′

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 35′ deep 6′ Well Casing

10. The estimated amount of groundwater withdrawn each year 30,500 gal

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

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

Signature of Owner: C. N. Mannix Ranch
Date: March 14, 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 Appropriorator.
DECLARATION OF VESTED GROUND-WATER RIGHTS

C. N. MANNIX RANCH

RECEIVED
POWELL COUNTY, MONTANA

August 28th, 1963
at minutes past 2:35 o'clock
P.M.

Daniel R. Hertz, Jr.
Clerk and Recorder

By
Deputy

Fee $2.00 Paid
May 9, 1972

In reply refer to: Engineering Bureau

Mr. Thomas R. Midtlyng
P. O. Box 80
Helenville, Montana 59843

Dear Mr. Midtlyng:

This is in reference to the enclosed GW-4 form, Declaration of Vested Groundwater Rights, that you filed on April 14, 1972, at Deer Lodge, Montana.

The Declaration of Vested Groundwater Rights form was intended for appropriators to file on vested groundwater rights for a certain period of time only. That period was from January 1, 1962 to January 1, 1966. Therefore, after January 1, 1966, according to the Groundwater Code, the GW-4 form was invalid and could not legally be used as an appropriation form.

The proper form to use for wells filed on or after January 1, 1966 is the Notice of Completion of Groundwater Appropriation By Means of Well, GW-2. One set of the GW-2 form is enclosed for your own use. Please complete all blanks as accurately as possible and attach any available proof that the date of first beneficial use did actually date back to 1955 as indicated on the enclosed GW-4 form. It would be to your advantage to file and attach additional proof, if available, in case there is a dispute over the groundwater in your area.

Also enclosed is a copy of the pamphlet, Appropriation and Regulation of Ground Water. The first three and one-half pages of the pamphlet should be of most interest to you. Underlined in red are specific items related to your particular case.

If we can be of further assistance, please feel free to contact us at any time.

Sincerely,

FOR: Orrin Ferris, P. E.
Chief, Engineering Bureau
WATER RESOURCES DIVISION

Enclosures (3)

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

Doc. No. 86224
File for record this 14th day of April, A. D. 1972, at 10:30 o'clock A. M.
Signature of Owner: Thomas R. Midtlyng
Date: April 13, 1972

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.
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. MIDLYNG of P.O. Box 90, HELENA
(State of Montana, Town)

have appropriated groundwater according to the Montana Groundwater Code prior to January 1, 1962, as follows:

1. The beneficial use on which the claim is based—HOUSE, ORCHARD, YARD, GARDEN, LIVESTOCK

2. The approximate date of earliest beneficial use; and how continuous the use has been—USED YEAR AROUND

3. The amount of groundwater claimed (in miner's inches or gallons per minute) APPROXIMATELY 2.5 GAGES

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

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

6. The depth of water table...

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

8. The estimated amount of groundwater withdrawn each year...

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

10. 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...

File No:

DUPPLICATE

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

P* use 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.
DECLARATION OF VESTED GROUNDWATER RIGHTS

Thomas R. Midlyng

RECEIVED
POWELL COUNTY, MONTANA

April 14th, 1972

at ___ minutes past 10:30 o'clock

By: ________________________

Deputy

Fee $2.00
<table>
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<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>Hollinrath, James</td>
<td>(w)</td>
<td>8-35-14</td>
<td></td>
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</table>
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation
Without Well
Developed After January 1, 1962
(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: 31st May 1970
Owner: James D. Hollowell
Address: Drummond, Montana

Contractor (if any)
Address of Contractor

Date Started: 31st May 1970
Date Completed: 11 August 1970

1) Describe means of obtaining groundwater (as by sub-irrigation, developed spring, drains, etc.)--Developed-spring-and pond for intake, to a one inch plastic pipe to run 2,000 ft to cabin and placer pit

Use Hilda - Pat. No. 2764

2) Means of withdrawing water (gravity, pump, canal, etc.)--Gravity

Sec. 5

3) Depth of water table: 2 to 4 ft.

Section of W T 12 R 13

4) Water of the water--domestic and washing gold-bearing gravel

5) Amount of groundwater claimed (in miner's inches, or gallons per minute) -- 8 gal. per minute

6) If used for irrigation, give number of acres and description of land

7) Estimate amount of water used each year: 3,000,000 Gal.s.

Signature of Owner: James D. Hollowell
Date: 11 August 1970

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.
RECEIVED
POWELL COUNTY, MONTANA

August 13th. 1970
at__minutes past, 10:05 o'clock
A.M.

Elfa McDonough
Clerk and Recorder

By.__________________________________
Deputy

Fee $_________