STE. OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE OF MONTANA
OFFICE OF STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1962)

1. Matt C. Broche, of [Address], (Name of Appropriator),
   County of Missoula, State of Montana,
   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

<table>
<thead>
<tr>
<th>N</th>
<th>W</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

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: Livestock.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1962.

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

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

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

8. The depth of water table: 4 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: [Details]

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 The estimated amount of groundwater withdrawn each year: 200,000 gal.

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

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: [Details]

Signature of Owner: [Signature]
Date: 12-31-1963

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

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

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

26377
DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

1. [Name of Appropriator], of [Address], [Town], [State of Montana]
   County of [County], 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:
   - [Beneficial Use]

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

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

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:
   - [Acreage]

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

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

8. The depth of water table:
   - [Depth]

9. So far as 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:
    - [Amount]

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: [Name], [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 School of Mines and quadruplicate for the Appropriator.
**WATER WELL LOG**

Owner: Fred Wirth  
Address: Geraldine, Montana

Driller: C. G. Thatcher  
Address: Stanford, Montana

Date Started: May 23, 1959  
Date Completed: June 6, 1959

Location: Sec. 37, T. 22 N., R. 11 E.

### Type of Well

- Drilled

### Equipment Used

- Rotary

### Water Use

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

### Casing

- 150 ft. to 190 ft.  
  Type: Galvanized  
  Size: 2"

### Perforated Screen

- From 100 ft. to 150 ft.  
  Size: Other [ ]

### Static Water Level

- For non-flowing well: [ ]

### Shut-in Pressure

- For flowing well: 150 lb./sq. in. on: June 6, 1959

### Pumping Water Level

- Gal. per min.: 50

### Remarks

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

  - Casing is cemented and shut-off is six (6) feet under the ground.

(over)
## Log of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>From</th>
<th>To</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>12</td>
<td></td>
<td>Overburden-yellow clay and fine gravel.</td>
</tr>
<tr>
<td>2.5</td>
<td>235</td>
<td></td>
<td>Blue shale.</td>
</tr>
<tr>
<td>766</td>
<td>1075</td>
<td></td>
<td>Blue shale with layers of medium hard sandstone.</td>
</tr>
<tr>
<td>1075</td>
<td>1143</td>
<td></td>
<td>Sandy blue shale.</td>
</tr>
<tr>
<td>1243</td>
<td>1305</td>
<td></td>
<td>Alternate layers of blue shale and hard sandstone.</td>
</tr>
<tr>
<td>1305</td>
<td>1363</td>
<td></td>
<td>Soft blue shale.</td>
</tr>
<tr>
<td>1363</td>
<td>1610</td>
<td></td>
<td>Layers of blue shale and hard sandstone alt.</td>
</tr>
<tr>
<td>1610</td>
<td>1675</td>
<td></td>
<td>Red shale.</td>
</tr>
<tr>
<td>1675</td>
<td>1790</td>
<td></td>
<td>Layers of red shale and hard sandstone alt.</td>
</tr>
<tr>
<td>1790</td>
<td>1845</td>
<td></td>
<td>Very hard sandstone.</td>
</tr>
<tr>
<td>1845</td>
<td>1938</td>
<td></td>
<td>Soft sandstone (water).</td>
</tr>
</tbody>
</table>
**DECLARATION OF VESTED GROUNDWATER RIGHTS**

(Under Chapter 237, Montana Session Laws, 1961)

<table>
<thead>
<tr>
<th>1. Proponent</th>
<th>Geraldine</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Name of Appropriator)</td>
<td>(Address)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>County of</th>
<th>State of</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chouteau</td>
<td>Montana</td>
</tr>
</tbody>
</table>

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
   - **Stock water**

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
   - **July 1956**
   - **continuous**

4. The amount of groundwater claimed (in miner's inches or gallons per minute)
   - **8 gal. 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
   - **pump & windmill**

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
   - **July 2 to July 6, 1956**

8. The depth of water table
   - **16 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
   - **Casing is 16 feet by 16 feet**

10. The estimated amount of groundwater withdrawn each year
    - **200,000 gal.**

11. The log of formations encountered in the drilling of each well if available
    - **Clay & gravel & ft.**

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 School of Mines and Quadruplicate for the Appropriator.
## GROUNDWATER INDEX

### County: Chouteau  
#### Twp. 22N  
##### Rge. 12E

<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>3</td>
<td>Frank R. Zeiranko</td>
<td>GW4</td>
<td>3/1/688</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Charles W. Hennel</td>
<td>GW4</td>
<td>1/7/14</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Charles W. Harvey</td>
<td>GW4</td>
<td>7/4/6207</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Arnold W. Englebert</td>
<td>GW3</td>
<td>3/4/688</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Arnold W. Englebert</td>
<td>GW4</td>
<td>7/6/68</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Mill C. Burge</td>
<td>GW4</td>
<td>2/3/6275</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Charlie S. Hoge</td>
<td>GW4</td>
<td>3/10/30</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Arnold W. Englebert</td>
<td>GW4</td>
<td>2/4/657</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>Warren Stockton</td>
<td>GW4</td>
<td>1/17/601</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>Henry Holtsham</td>
<td>GW2</td>
<td>3/2/563</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>Henry Holtsham</td>
<td>GW4</td>
<td>2/4/792</td>
<td></td>
</tr>
<tr>
<td>38</td>
<td>Henry Holtsham</td>
<td>GW4</td>
<td>7/4/657</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>Frank W. Shaw</td>
<td>GW4</td>
<td>7/1/525</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>Frank W. Shaw</td>
<td>GW4</td>
<td>7/1/525</td>
<td></td>
</tr>
<tr>
<td>76</td>
<td>John S. Englebert</td>
<td>1958</td>
<td>NA</td>
<td></td>
</tr>
</tbody>
</table>
DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

1. Frank P. Fairbanks
   (Name of Appropriator)
   
   County of
   (Name 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
   
   Domestic and livestock

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
   
   January 1, 1931, intermittent
   to January 1, 1962, with this date

4. The amount of groundwater claimed (in miner's inches or gallons per minute)
   
   10 gal. 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
   
   Acreage: 100
   Description: 100 acres
   Owner: John Smith

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
   
   Commenced: June 1, 1955
   Completed: June 1, 1955

8. The depth of water table
   
   200 feet

9. So far as may be available, the type, size and depth of each well of the general specifications of any other works for the withdrawal of groundwater
   
   Type: Submersible
   Size: 4 inches
   Depth: 200 feet

10. The estimated amount of groundwater withdrawn each year
    
    300,000 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
    
    Not available

Signature of Owner: [Signature]
Date: Dec 22, 1962

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the School of Mines and quadruplicate for the Appropriator.
DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

1. Elmer G. Dammel, of Geraldine
   (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: Since 1933

   4. The amount of groundwater claimed (in miner's inches or gallons per minute): 12

   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: Horse and Pump

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: June 1923

   8. The depth of water table: 35 ft

   9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: Well 15 ft - 10 ft - deep

   10. The estimated amount of groundwater withdrawn each year: 500,000 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:

   Signature of Owner: 

   Date: 3-1-63

   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 School of Mines 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)

1. ____________________ of ____________________
   (Name of Appropriator) (Address) (Town)

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

   2. The beneficial use on which the claim is based: ____________________
      Household
      Stockwater
      Irrigation

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been: ____________________
      Dug in 19____ and has been in continuous use in the household, watering stock
      and irrigation for garden

   4. The amount of groundwater claimed (in miner's inches or gallons per minute): _____ Ten 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: ____________________
      Small garden

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

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: ____________________
      Aug 19____

   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: ____________________
      6½" Casing 86' deep

   10. The estimated amount of groundwater withdrawn each year: ____________________
      500,000 gallons

   11. The log of formations encountered in the drilling of each well if available: ____________________
      Sand and 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: ________________

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 School of Mines and quadruplicate for the Appropriator.
STATE OF MONTANA
COUNTY OF CHOtteAU

Filed December 6, 1963
at 9:40 O'clock
By Carl M. O'Neill

# 3462-47
COUNTY Ct R

By Carl M. O'Neill

Fee $1.00 Paid
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: NOT APPLICABLE
Owner: ARNOLD H. ENGELLIN
Address: GAVELLIE, MONT
Contractor (if any): N/A
Address of Contractor: N/A
Date Started: N/A Date Completed: N/A

Describe means of obtaining groundwater without a well “as by sub-irrigation and other natural processes”. Include depth to water when applicable. NATURAL FLOWING SPRING

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

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use.

Signature of Owner: [Signature]
Date: NOV. 27, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quatruplicate for the Appropriator.
DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

1. Arnold Hentschel of Geraldine
   (Name of Appropriator) (Address) (Town)

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

   The beneficial use on which the claim is based:

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

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

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

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

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

   The depth of water table:

   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:

   The estimated amount of groundwater withdrawn each year:

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

   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 School of Mines 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)

1. Matt C. Buck, of Holfordine, MT.
   (Name of Appropriator) (Address) (Town)
   County of Chouteau, 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: Cattle

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1926
      Has been used continuously

   4. The amount of groundwater claimed (in miner’s inches or gallons per minute): 2 gal 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: 1926

   8. The depth of water table: 12 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:
      Hand Auger: 3 ft. under 12 ft. deep

   10. The estimated amount of groundwater withdrawn each year: 365,000

   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: None

   Signature of Owner: Matt Buck
   Date: 12. 31. 1963

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines 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)

1. Charles F. Stone, of Geraldine
   (Name of Appropriator) (Address) (Town)

County of Chouteau, 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
   Stock water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1920 - constant

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 5 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
   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 1920

8. The depth of water table 18 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater dug well, pipe 60 inches, 18 feet deep

10. The estimated amount of groundwater withdrawn each year unknown

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

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

Signature of Owner Charles F. Stone
Date 24-1-1963

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 School of Mines and Quadruplicate for the Appropriator.
Groundwater Rights
Charles F. Stooe

The Public

State of Montana,
County of Chouteau

Filed for record the 29
day of
Nov. 1963 at 2:45
p.m. and recorded in book
of
records Chouteau County, Montana.

Jasper Hove
County 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)

1. **ARNOLD H. ENGELHARDT** of **GERALDINE**
   (Name of Appropriator)
   (Address) (Town)

   County of **CHIANTU** 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 **STOCK WATER**

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) **1/2 C.A.M. 1/2 A.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 **N.O.T. A.P.**

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 **1/4 3**

8. The depth of water table **20 F.E.**

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 **3 F.O.T. CASING**

10. The estimated amount of groundwater withdrawn each year **1 1 1/2 3 2 2**

11. The log of formations encountered in the drilling of each well if available **N.O.T. 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 **N.O.T.**

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 School of Mines and Quadruplicate for the Appropriator.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER
STATE ENGINEER
DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

1. Name of Appropriator
   (Address) (Town)

County of Choteau, 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

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 School of Mines and quadruplicate for the Appropriator.
DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

1. Warren Woodburn, of Geraldine, State of Montana
   (Name of Appropriator) (Address) (Town)

   County of Chouteau, 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: Taxicab Water

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been: It was dug in 1926 at a homestead residence, and was used continuously for the farm use until 1960 when the residence was abandoned and has since been used for summer livestock water only.

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

   6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: Operated 3 inch shallow well cylinder and pump.

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: The well was hand dug in 1926 and capped with wood and the water was drawn out by hand by a bucket and rope until 1942 when it was galvanized casing 3 feet in diameter and the cylinder operated 3 inch shallow well cylinder and pump was in.

   8. The depth of water table: 20 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: This is a hand dug well which is 3 feet in diameter capped with a corrugated galvanized iron casing and is 20 feet deep.

   10. The estimated amount of groundwater withdrawn each year: 75,000 gallons

   11. The log of formations encountered in the drilling of each well if available: no

   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: December 30, 1962

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the School of Mines and quadruplicate for the Appropriator.
## 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

Henry Goldsman

### Address

Geraldine, Montana

### Date well started

June 9, 1970

### Date well completed

June 20, 1970

### Type of well

Drilled

### Equipment used

Rotary

### Water Use

Domestic

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

---

#### ESTIMATED ANNUAL WITHDRAWAL

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Number of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>Kind of Water</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
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</thead>
<tbody>
<tr>
<td>1 2/4&quot;</td>
<td>2 2 1/2&quot;</td>
<td>100</td>
<td>0</td>
<td>Sand</td>
<td>125</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>2 3/4&quot;</td>
<td>3/4&quot;</td>
<td>120</td>
<td>0</td>
<td>Shale</td>
<td>150</td>
<td>120</td>
<td></td>
</tr>
</tbody>
</table>

---

#### Top of Ground (Eve above sea level)

- 0. 100: gravel, clay to shale
- 100: clay to shale
- 111: bentonite
- 111: hard sand to shale
- 137: gravel to hard sand
- 137: sand to shale
- 137: shale and calcite
- 137: clay to shale

### Remarks

Gravel packing, cementing, packers, type of shutoff

### Power

Pump: HP

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

(Under Chapter 237, Montana Session Laws, 1961)

1. Henry G. Goldhahn, of Box 266, Geraldine
   (Name of Appropriator) (Address) (Town)

   County of Chouteau, 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: **Well**
      For **house and stock water**

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been: **September 1954**, with **continuous use every since**.

   4. The amount of groundwater claimed (in miner’s inches or gallons per minute): **2 gallons per minute**

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

   6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: **Electrical pump with pressure tank**

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

   8. The depth of water table: **60 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: **20 feet deep with 6 inch Galvanized well casing**

   10. The estimated amount of groundwater withdrawn each year: **37,000 gal. a year**

   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 copy and page of any county record: **none**

   Signature of Owner: **Henry G. Goldhahn**

   Date: **Dec 16, 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 School of Mines 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)

1. Henry E. Goldhahn
(Name of Appropriator)

County of Chouteau
(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: Well

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1915. It has been in continuous use ever since.

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: I have piped this well out to the top of the ground and made a flowing well.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: In 1956 the well was recessed and piped out.

8. The depth of water table: 16 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: The well is 25 feet deep. It is cased with 3 foot diameter cement culverts. It is piped out with 1 inch plastic piping.

10. The estimated amount of groundwater withdrawn each year: 220,000 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: None.

Signature of Owner: Henry E. Goldhahn
Date: December 16, 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 School of Mines and quadruplicate for the Appropriator.
DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

George W. Van Vleut of Geraldine
(Name of Appropriator) (Address) (Town)
County of Chouteau, 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
   Family and Livestock

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1952
   from in use continually

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 31/2 pints

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
   small plot for garden
   George Van Vleut

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
   Aug. 13, 1952, completed Sept. 1952

8. The depth of water table 1250 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 2 inch galvanized pipe, 1250 ft.

10. The estimated amount of groundwater withdrawn each year 219 thousand gallons per year

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

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
   name to my knowledge

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 School of Mines 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)

1. George Yost of Geraldine

County of Chouteau 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...

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 School of Mines and Quadruplicate for the Appropriator.
in 2001, a special study by the Montana Board of Water Resources indicated that the water levels in the area had significantly increased compared to previous years. The study revealed that the increased water levels were due to the removal of the dam on the nearby river. The board recommended that additional measures be taken to manage the water levels and prevent future flooding.

The diagram below shows the water levels (in feet) over the past five years. The data indicates a clear trend of increasing water levels, particularly in the last two years. The board urged the community to take necessary actions to adapt to the new water conditions and to ensure the safety of the local residents.
# WATER WELL LOG

**Owner:** John D. Kingdon  
**Address:** Geraldine

**Driller:** Henry C. Dierdolf  
**Address:** Ewing

**Date Started:** June 16, 1950  
**Date Completed:** July 2, 1950

**Location:** Sec. 36, T. 22 N., R. 12 W., 1/4 NW 1/4 SW 1/4

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Equipment used</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drilled</td>
<td>Rotary Drill</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Water use</th>
<th>Domestic</th>
<th>Municipal</th>
<th>Stock</th>
<th>Irrigation</th>
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<tbody>
<tr>
<td>Water</td>
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<td></td>
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<table>
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<tr>
<th>Casing:</th>
<th>135' ft. to ft.</th>
<th>Type: (P-ty.)</th>
<th>Size:</th>
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<td>ft. to ft.</td>
<td>Type:</td>
<td>Size:</td>
</tr>
<tr>
<td>Casing:</td>
<td>ft. to ft.</td>
<td>Type:</td>
<td>Size:</td>
</tr>
</tbody>
</table>

| Perforated or Screened: | 70' to 1420' | Type: | Size: |

| Type of screen or perforations: | |

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

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

| Pumping water level: | feet at | gal. per min. |

| How tested: | |

| Length of test: | |

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

| Remarks: | |

<p>| Remarks: | (over) |</p>
<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
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<td>Arthur A. Henderson</td>
<td>GWY</td>
<td>346765</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>James Clark                Jr</td>
<td>GWY</td>
<td>347125</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Arthur A. Henderson</td>
<td>GWY</td>
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<td>13</td>
<td>Leon &amp; Viola L. McCardle</td>
<td>GWY</td>
<td>346855</td>
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<tr>
<td>17</td>
<td>Hilda P. Adamson</td>
<td>GWY</td>
<td>347054</td>
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<tr>
<td>18</td>
<td>Harley S. With</td>
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<td></td>
<td></td>
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<td>19</td>
<td>Nancy J. Whitt</td>
<td>1961</td>
<td>Rg. 2</td>
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<td>21</td>
<td>John A. Rowland</td>
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<td>Ralph Rowland</td>
<td>GWY</td>
<td>347042</td>
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<td>22</td>
<td>John A. Rowland</td>
<td>GWY</td>
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<tr>
<td>26</td>
<td>Leon &amp; Viola L. McCardle</td>
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<tr>
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<td>Leon &amp; Viola L. McCardle</td>
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<tr>
<td>27</td>
<td>Bob Rowland</td>
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<td>346827</td>
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<td>Robert Rowland</td>
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<tr>
<td>28</td>
<td>Ruby V. Newsome</td>
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<td>30</td>
<td>Samuel Clark, Jr</td>
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<td>31</td>
<td>Royce A. Feagles</td>
<td>GW4</td>
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<td>Owen King</td>
<td>1959</td>
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<td>34</td>
<td>Ruby V. Newsome</td>
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<tr>
<td>34</td>
<td>Ruby V. Newsome</td>
<td>GW3</td>
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<td></td>
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</tbody>
</table>
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater

Owner

Address

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 in year

Assumed Well water

Head of Cattle

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 School of Mines 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)

1. James Clark, Sr. of Geraldine, Montana
   (Name of Appropriator) (Address) (Town)

   County of Chouteau, 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
      Stock Water

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been...[1943]

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

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

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

   7. The date of commencement and completion of the construction of the well, wells, or other works...
      1918

   8. The depth of water table...
      717 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...
      Six-inch casing

   10. The estimated amount of groundwater withdrawn each year...
        2000 feet, each day, for a period of 30 months...

   11. The log of formations encountered in the drilling of each well...
        Not Known

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

   Signature of Owner: James Clark
   Date: Dec. 31, 1963

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the School of Mines and quadruplicate for the Appropriator.
DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

1. Arthur A. Henderson, of Belt, By 37, Mont.
   (Name of Appropriator) (Address) (Town)
   County of Chouteau, 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 and stock

   3. The date or approximate date of earliest beneficial use; and how long 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 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 School of Mines 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)

1. L. A. Viola N. McCandie, of Geraldine, 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 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 and the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.
DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

1. Hilda Wishman, of Box 371, Geraldine
   (Name of Appropriator) (Address) (Town)

   County of Chouteau 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

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1947

   4. The amount of groundwater claimed (in miner’s inches or gallons per minute) 3.0 gal

   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 lawns and gardens

   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 1947

   8. The depth of water table 160

   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 spring wells 175

   10. The estimated amount of groundwater withdrawn each year 2,000,000

   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 Hilda Wishman
   Date 1/31/63

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 School of Mines and Quadruplicate for the Appropriator.
<table>
<thead>
<tr>
<th>Owner</th>
<th>Harry J. Witt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>Geraldine, Mont.</td>
</tr>
<tr>
<td>Driller</td>
<td>Wm. G. Fuller</td>
</tr>
<tr>
<td>Address</td>
<td>Geraldine, Mont.</td>
</tr>
</tbody>
</table>

Type of well: Drilled

Equipment used: churn drill

Water use: Stock [ ]

Casing:
- 116 ft to 116 ft, Type: iron, Size: 5 1/2"
- Other: 

Type of screen or perforations: slits cut in pipe

Static water level, for non-flowing well: 50 feet

Shut-in pressure, for flowing well: 

Pumping water level: 65 feet at 20 gal. per min.

How tested: bailer

Length of test: 30 Min

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

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From 0</td>
<td>To 115</td>
</tr>
<tr>
<td></td>
<td>Glacial drift</td>
</tr>
</tbody>
</table>
# WATER WELL LOG

**Owner:** Harry J. Witt  
**Address:** Geraldine, Montana

**Driller:** C. Fuller  
**Address:** Geraldine, Montana  
**O. C. Thatcher**  
**Stanford, Montana**

**Date Started:** Aug. 26, 1958  
**Date Completed:** Sept. 18, 1958

**Location:** Sec. 18, T. 22N, R. 13E, 1/4 sec. NE1/4, SE 1/4.

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Dug, driven, bored, or drilled)</td>
<td>Rotary</td>
</tr>
<tr>
<td>(Churn drill, rotary, other)</td>
<td></td>
</tr>
</tbody>
</table>

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

**Industrial [ ]**  
**Drainage [ ]**  
**Other: [ ]**

**Casing:**  
- 1887 ft. to 2257 ft.  
- Type:  
  - Oil field tubing 2 3/8"
  - Galvanized 2" pipe

**Perforated or Screened:**  
- Ft. 2227 to Ft. 2257 Ft.

**Type of screen or perforations:**  
- Slit cut lengthwise in 2" pipe

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

**Shut-in pressure, for flowing well:**  
- 240 lb./sq. in. on April 3, 1961

**Pumping water level:**  
- Flowing feet at # 32 gal. per min.

**How tested:**  
- Filled 800 gal. tank in 22 min.

**Length of test:**

**Remarks:**  
- Gravel packing, cementing, packers, type of shut-off, depth of shut-off
- Depth of shut-off was as deep as cement could be pumped in, 7 sacks of cement was used.

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 140</td>
<td>Glacial drift</td>
</tr>
<tr>
<td>140 - 1363</td>
<td>Colorado shale</td>
</tr>
<tr>
<td>1363 - 1378</td>
<td>Sandstone flowing water 1/2 G.P.M.</td>
</tr>
<tr>
<td>1378 - 1620</td>
<td>Shale</td>
</tr>
<tr>
<td>1620 - 1639</td>
<td>Sandstone water producer</td>
</tr>
<tr>
<td>1639 - 1800</td>
<td>Shale</td>
</tr>
<tr>
<td>1800 - 1840</td>
<td>Sandstone water 1 G.P.M.</td>
</tr>
<tr>
<td>1840 - 1960</td>
<td>Shale</td>
</tr>
<tr>
<td>1960 - 2072</td>
<td>Greygreen shale &amp; sandstone</td>
</tr>
<tr>
<td>2072 - 2158</td>
<td>Red shale with layers of sandstone.</td>
</tr>
<tr>
<td>2158 - 2216</td>
<td>Layers of hard to medium hard sandstone.</td>
</tr>
<tr>
<td>2216 - 2252</td>
<td>Soft sandstone. (water).</td>
</tr>
<tr>
<td>2252 - 2257</td>
<td>HARD sandstone.</td>
</tr>
</tbody>
</table>
DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

1. John A. Rawland, of Geraldine
   (Name of Appropriator) (Address) (Town)

   County of Chouteau, 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: drinking water

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1917

   4. The amount of groundwater claimed (in miner's inches or gallons per minute): 5 gals

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

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

   7. The date of completion of the construction of the well, wells, or other works for withdrawal: 1917

   8. The depth of water table: 28

   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: 3 ft. diam. rock well

   10. The estimated amount of groundwater withdrawn each year: approx. gals

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

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

   Signature of Owner: John A. Rawland
   Date: 31 Dec. 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 School of Mines and Quadruplicate for the Appropriator.
<p>| | | | | |</p>
<table>
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</tbody>
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\[ \begin{array}{c|c|c|c|c}
\hline
x & y & z & w & v \\
\hline
1 & 2 & 3 & 4 & 5 \\
6 & 7 & 8 & 9 & 10 \\
\hline
\end{array} \]

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**STATE OF MINNESOTA**

**COUNTY OF HENNEPIN**

**DEC 31 1959**

\[ \text{Made} \quad 4:00 \quad \text{Page} \quad 6 \]

\[ \text{By} \quad 2:42 \quad \text{Page} \quad 1 \]
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. John A. Rowland, of Geraldine,
   (Name of Appropriator) (Address) (Town)
   County of Chouteau, 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 + Stack.

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been: March 1948.

   4. The amount of groundwater claimed (in miner's inches or gallons per minute): 25 gals.

   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 + Garden Use.

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

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

   8. The depth of water table: 85.

   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, 5 ft. casing.

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

   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: John A. Rowland
   Date: 31 Dec 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 School of Mines and Quadruplicate for the Appropriator.
**STATE OF MONTANA**

**SECRETARY OF STATE**

**MONTANA WATER RESOURCES BOARD**

**NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL**

Developed after January 1, 1962

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:** Ralph Rowland

**Address:** Geraldine, Montana

**Date well started:** May 29, 1973

**Type of well:** Drilled

---

**Use:** Municipal

**Type of water:** Surface water

**Capacity:** 70 gallons per minute

**Power:** Electric

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

---

**Top of Ground (Rev. above sea level)**

<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-1</td>
<td>2Soil</td>
</tr>
<tr>
<td>2</td>
<td>Sandy Brown Clay</td>
</tr>
<tr>
<td>4</td>
<td>Sandy Brown Clay</td>
</tr>
<tr>
<td>6</td>
<td>Sandy Brown Clay</td>
</tr>
<tr>
<td>8</td>
<td>Sandy Brown Clay</td>
</tr>
<tr>
<td>10</td>
<td>Sandy Brown Clay</td>
</tr>
<tr>
<td>12</td>
<td>Sandy Brown Clay</td>
</tr>
<tr>
<td>14</td>
<td>Sandy Brown Clay</td>
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<tr>
<td>16</td>
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<td>18</td>
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<td>20</td>
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<td>26</td>
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<td>28</td>
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<td>30</td>
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<td>32</td>
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<td>44</td>
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<td>46</td>
<td>Sandy Brown Clay</td>
</tr>
<tr>
<td>48</td>
<td>Sandy Brown Clay</td>
</tr>
<tr>
<td>50</td>
<td>Sandy Brown Clay</td>
</tr>
</tbody>
</table>

---

**Estimated Annual Withdrawal:**

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Rate of Withdrawal</th>
<th>Top of Ground</th>
</tr>
</thead>
<tbody>
<tr>
<td>8&quot;</td>
<td>70 gpm</td>
<td>0-1 Soil</td>
</tr>
</tbody>
</table>

---

**Driller's Signature:**

---

**Driller's Address:**

---

**County:** Chouteau

---

**Top of Ground Diagram:**

---

**Map of Location:**

---

**Description of Well:**

---

**Modern Drilling Service**

---

**Driller's Name:**

---

**Date:** June 13, 1973

---

**Revised:** GW 3 Revised 1980

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**State Publishing Company**
STATE OF MONTANA
COUNTY OF CHOTMAN

FRED. J. J. 1869
JUNE 1 1869
19

10:30
P.M.

By

Fee $2

Deputy