## WATER WELL LOG

<table>
<thead>
<tr>
<th>Field</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner</td>
<td>Clifford E. Etz</td>
</tr>
<tr>
<td>Address</td>
<td>Butte, Montana</td>
</tr>
<tr>
<td>Driller</td>
<td>Address</td>
</tr>
<tr>
<td>Date Started</td>
<td>Date Complete</td>
</tr>
<tr>
<td>Location</td>
<td>Sec 15, T 25, R 27, 4 sec SW1/4 of the NE4</td>
</tr>
<tr>
<td>Type of well</td>
<td>Shallow</td>
</tr>
<tr>
<td>Equipment used</td>
<td>Shank drill</td>
</tr>
<tr>
<td>Water use</td>
<td>Domestic</td>
</tr>
<tr>
<td>Casing: ft. to ft.</td>
<td>Type:</td>
</tr>
<tr>
<td>Casing: ft. to ft.</td>
<td>Size:</td>
</tr>
<tr>
<td>Perforated or Screened: Ft.</td>
<td>to ft.</td>
</tr>
<tr>
<td>Type of screen or perforations</td>
<td></td>
</tr>
<tr>
<td>Static Water level,</td>
<td>feet.</td>
</tr>
<tr>
<td>Shut-in pressure, for flowing well:</td>
<td>lb/sq. in. on: (date)</td>
</tr>
<tr>
<td>Pumping water level</td>
<td>feet at gal. per min.</td>
</tr>
<tr>
<td>How tested</td>
<td>In 32' hole, shaped and with a spoil - 5 ft deep</td>
</tr>
<tr>
<td>Remarks</td>
<td>(Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</td>
</tr>
</tbody>
</table>

(over)
<table>
<thead>
<tr>
<th>Page</th>
<th>Rate of Interest</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

State of Montana,  
County of Phillips,  

Filed for record this 19 day of March A.D. 1977 at 2:45 o'clock P.M. and duly recorded in book  
Page  
of  

By Recorder  
Fee  
Return  

222093
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

Name of Appropriate: Hane Strand
Address: Malta, MT
County of: Phillips
State of: Montana

I, Hane Strand, of Malta, MT, declare that I 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 & Stock

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 1 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: Bailing

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

8. The depth of water table: 6 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: hand dug, 1' x 2' x 2', 7 feet deep

10. The estimated amount of groundwater withdrawn each year: 55,000 gal

11. The log of formations encountered in the drilling of each well if available: 0-7 dark 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: None

Signature of Owner: Hane Strand
Date: Dec 3, 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 Apprropriator.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. NATHAN V. FRENCH, of WACKER
   (Name of Appropriator) (Address) (Town)
   County of PHILLIPS 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: watering, livestock.

   3. Date or approximate date of earliest beneficial use, and how continuous the use has been: First used in October, 1953, and in continuous use since that time.

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

   6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: This is an artisan-flowing well and has no means of withdrawing water.

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Well was commenced and completed in October, 1953. Casing was installed and water has been flowing since that time.

   8. The depth of water table: 120 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: 2" steel casing, 120 feet deep. Water flows from an artisan spring underground. Water runs into a tank and surplus runs off into coulee.

10. The estimated amount of groundwater withdrawn each year: 1,576,800 gallons per year.

11. The log of formations encountered in the drilling of each well if available: Top soil, clay, sandstones, 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: Nathan V. French
Date: December 22, 1963

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
State of Montana,
County of Phillips, filed
Filed for Record this...22 day
of A. D. 1926
Filed at 9 M. and duly entered in book
of
Rosalie W. County Recorder

Return

230548
Notice of Completion of Groundwater Appropria-Without Well
(Under Chapter 287 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: 1933
Owner: Hans Strand Address: Malta, Montana
Contractor (if any) Address of Contractor

Date Started: Date Completed: 1935
Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Natural-flow spring:

Surface


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.

5 gal. per min.

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

Signature of Owner: Hans Strand
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.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. **Isaac M. Frye**
   - Name of Appropriator
   - Address
   - Town

   County of **Phillips**
   - 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 & stock**

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: **1952 continuous**

4. The amount of groundwater claimed (in inches or gallons per minute): **SIX G.P.M.**

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: **1922**

8. The depth of water table: **75 ft.**

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater:
   - Drilled & in casing... **90 ft., deep**

10. The estimated amount of groundwater withdrawn each year: **900,000 gallons**

11. The log of formations encountered in the drilling of each well if available:
   - **0-65. clay, 65-85. gravel, 85-90. shale**

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 /s/ Isaac M. Frye

   Date Dec 30, 1963

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriate.
Min 16 099
23 7/27

Phillips Co.
Filed 12-31-63
At 1:06 PM
See #2,529.

R. V. Maloney
Clerk & Recorder.
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Date of Notice of appropriation of ground water

Date well started

Type of well

Equipment used

Water use

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock, sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Static Water Level for non-flowing well

Shut-In Pressure for Flowing Well

Pumping Water Level at __ feet per minute

Discharge in gal per min. of flowing well

How Tested

Length of Test

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

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 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 Appropriator.
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Date well started: July 18, 1972
Date completed: July 22, 1972

Top of Ground:
(Elev. above sea level) 2770

Driller: Simpkins Drilling Co
Address: Kalta, Montana

Date of Notice of appropriation of ground water: July 18, 1972

Indicate on diagram the character and thickness of the different strata met in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Static Water Level for non-flowing well: 9 feet
Shut-in Pressure for Flowing Well: 3 feet
Pumping Water Level: 5 feet
Discharge in gal. per min. of flowing well: 70 gallons

How Tested: hallir
Length of Test: 2 hours
Remarks: (Gravel packing, cementing packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation)

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the School of Mines and Quadruplicate for Appropriator.
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. Isaac M. Frye
   (Name of Appropriator)
   Malta
   (Address)
   (Town)
   County of Phillips
   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: 1952 continuous

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

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

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

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

8. The depth of water table: unknown

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: 120 ft., deep 2 in. casing

10. The estimated amount of groundwater withdrawn each year: 10 gals per min., 5,256,000 gals.

11. The log of formations encountered in the drilling of each well if available: Clay to 120 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

Signature of Owner: /s/ Isaac M. Frye
Date: Dec. 30, 1962

Three copies to be filled 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.
Mio 1616
237/29

Phillips C.
Filed 12-31-63
at 1:08 PM
Dec 2, 63

P.O. Maloney
Chief Clerk
<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>12</td>
<td>Yantis Ranch Co.</td>
<td>C 4.4</td>
<td>236820</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Yantis Ranch Co.</td>
<td>C 4.4</td>
<td>236829</td>
<td></td>
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<tr>
<td>19</td>
<td>Clark M. Yates</td>
<td>C 4.4</td>
<td>237238</td>
<td></td>
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<tr>
<td>29</td>
<td>Robert Cummings</td>
<td>C 4.4</td>
<td>236617</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>Berry X. Miller</td>
<td>C 4.4</td>
<td>236922</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>Rod Leibert</td>
<td>C 4.4</td>
<td>239920</td>
<td></td>
</tr>
</tbody>
</table>
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. Upshee Ranch Co. of. Malto
   (Name of Appropriator) (Address) (Town)

2. The beneficial use on which the claim is based: 1acre crop water

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 100 ft. per min. Natural flow

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1/5/51

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:
   Drilled 1,000 ft. (35 ft. Casem)
   X 50 ft.

10. The estimated amount of groundwater withdrawn each year: 1/150,000

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: [Signature]
   Date: 12/30/63

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 Appportioner.
Filed Dec 31, 1943
at 8:51 A.M.
Fee 2.00

R. V. Maloney
Clerk & Recorder
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Vessath Ranch Co., a
   (Address) Malta
   (Town)
   County of
   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: 1949 Annually Water & Stock

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 109.11 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:

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1949

8. The depth of water table: 40 feet

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: Drilled 42" Steel casing 100 feet

10. The estimated amount of groundwater withdrawn each year: 550,000

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

Signature of Owner: [Signature]
Date: 12/30/63

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.
Filed Dec. 31, 1913.
at 8:30 A.M.

P. W. Maloney
( Clerk x Recorder)
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Isaac M. Frye
   (Name of Appropriator)
   of
   (Address)
   Malta
   (Town)

County of: Phillips
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: 1948 half the times

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

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: 1948

8. The depth of water table: 60 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 in. steel casing, 270 feet deep

10. The estimated amount of groundwater withdrawn each year: 500,000 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: /s/ Isaac M. Frye
Date: Dec 30 1963

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
Miss 1/6/60
23 7/128.
Phillips Co.
Fkld 12-31-63.
at 1:07 P.M.
Fee $2.00
R.D. Maloney
Clerk & Recorder.
<table>
<thead>
<tr>
<th>Form No. 18</th>
</tr>
</thead>
<tbody>
<tr>
<td>8-60</td>
</tr>
</tbody>
</table>

**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>Robert Cunningham</td>
<td>Malta, Montana</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Driller</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simpson Drilling Co</td>
<td>Malta, Montana</td>
</tr>
</tbody>
</table>

**Date Started**: August 29, 1963  
**Date Completed**: Sept. 7, 1963

**Location**: Sec. 29 T. 25 R. 28 W. 4

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Equipment used</th>
<th>Water use</th>
<th>Casing</th>
<th>Perforated or Screened</th>
<th>Type of screen or perforations</th>
<th>Static water level</th>
<th>Shut-in pressure</th>
<th>Pumping water level</th>
<th>How tested</th>
<th>Length of test</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drilled</td>
<td>Rotary</td>
<td>Domestic</td>
<td>9 ft. to 179 ft.</td>
<td>Type</td>
<td>Size 5 in.</td>
<td>drilled &amp; inch holes</td>
<td>44 feet</td>
<td>---</td>
<td>90 feet at 10 gal. per min.</td>
<td>6 hours</td>
<td>3 hours</td>
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(over)
<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>10</td>
<td></td>
<td>brown clay</td>
</tr>
<tr>
<td>10</td>
<td>20</td>
<td></td>
<td>blue clay, some rocks</td>
</tr>
<tr>
<td>20</td>
<td>90</td>
<td></td>
<td>dark shale (boney mud shale)</td>
</tr>
<tr>
<td>90</td>
<td>91</td>
<td></td>
<td>rock</td>
</tr>
<tr>
<td>91</td>
<td>92</td>
<td></td>
<td>sandstone</td>
</tr>
<tr>
<td>92</td>
<td>100</td>
<td></td>
<td>rock layer</td>
</tr>
<tr>
<td>100</td>
<td>101</td>
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<td>sandstone</td>
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<td>sandstone</td>
</tr>
<tr>
<td>150</td>
<td>170</td>
<td></td>
<td>gray shale</td>
</tr>
</tbody>
</table>

Log of Well
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) ____________________________ of Meth
   (Address) ____________________________ (Town) ____________________________
   County of __________ State of __________

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

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

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

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

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

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

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

8. The depth of water table ____________________________
   ____________________________

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

10. The estimated amount of groundwater withdrawn each year ____________________________
    ____________________________

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

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

Signature of Owner ____________________________
   ____________________________
   Date ____________________________

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
Phillips Co.
Filed 12-31-63
at 10:10 A.M.
Dec. #2,00
R. V. Maloney
Cl & Rec.
Form No. 18  
8-60

<table>
<thead>
<tr>
<th>County</th>
<th>Phillips</th>
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</thead>
<tbody>
<tr>
<td>T.</td>
<td>25</td>
</tr>
<tr>
<td>R.</td>
<td>28</td>
</tr>
</tbody>
</table>

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana  
10-15-61

Water Well Log

Owner: Ted Schertz  
Address: Malta, Montana

Driller: Simpson Drilling Co.  
Address: Malta, Montana

Date Started: September 10, 1961  
Date Completed: Sept. 22, 1961

Location: Sec. 32, T. 25 R. 28, 4 sec. 35 E 4 T. 14

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Drilled</th>
<th>Equipment used</th>
<th>Rotary</th>
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</table>

Water use:  
- Domestic  
- Municipal  
- Stock  
- Irrigation  
- Industrial  
- Drainage  
- Other

Casing:  
- 0 ft. to 882 ft.  
- Type: welded  
- Size: 8 inch

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

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

Perforated or Screened:  
- Ft. to Ft.  
- Drilled % inch holes

Type of screen or perforations  
- drilled % inch holes

Static water level, for non-flowing well: 120 feet.

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

Pumping water level: 280 feet at: 5 and gal. per min. 7.5

How tested: boiler

Length of test: 3 hours

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)  
rubber packers placed on casing above the perforations

(over)
## Log of Well

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<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
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<td>brown clay</td>
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<td>18 - 20</td>
<td>brown clay last circulation at 18 feet</td>
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<td>brown clay some rocks</td>
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<td>40 - 585</td>
<td>dark shale (near Paw shale)</td>
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<td>603 - 604</td>
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<td>642 - 720</td>
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<td>725 - 742</td>
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<td>742 - 749</td>
<td>grey shale some layers of sandstone</td>
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<td>40</td>
<td>Arnie Bagot</td>
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Montana Bureau of Mines and Geology
Butte, Montana

Water Well Log

Owner: Ray Cummings
Address: Butte, Montana

Driller: R. C. Simpson
Address: Butte, Montana

Date Started: August 20, 1937
Date Completed: Sept. 4, 1937

Location: Sec. 4, T. 26 N., R. 49 W., 1/4 sec. N6S4

Type of Well: Drilled

Equipment used: Rotary

Water Use: Domestic [x] Municipal [ ] Stock [x] Irrigation [ ]

Industrial [ ] Drainage [ ] Other: [ ]

Casing: 0 ft. to 50 ft. Type: Screw Joint

Casing: 50 ft. to 100 ft. Type: Size: 4 inch

Casing: 100 ft. to 150 ft. Type: Size:

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

Type of screen or perforations: 390 - 409, 415 - 465, 515 - 550

Static Water level, for non-flowing well: 72 feet.

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

Pumping water level: 230 feet at 5 gal. per min.

How tested: Balancer

Length of test: 2 hours

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

Gravel packed 390 to 570

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</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)

Sanford Bennett
(Name of Appropriator)

County of ___________________ State of Montana
(Address)
(Town)

have appropriated groundwater according to the Montana laws in effect prior to January 1, 1912, as follows:

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

3. Date or approximate date of earliest beneficial use; and how continuous this use has been: Oct. 1, 1951, continuous since.

4. The amount of groundwater claimed, (in miner’s inches or gallons per minute): 60 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: one acre, Sanford Bennett.

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Sept. 10, 1951, completed Oct. 1, 1951.

8. The depth of water table: 16.5 ft. with pump.

10. The estimated amount of groundwater withdrawn each year: 2,460,640 gal.

11. The log of formations encountered in the drilling of each well if available: 100 ft. to sandy till, 500 ft. to rock, 500 ft. to sandstone, 500 ft. to flow.

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: Sanford Bennett
Date: Dec. 26, 1963

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Chime Eggers
(Name of Appropriator)

Resina
(Adress)

County of
(Town)

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: HOUSE AND STOCK WATER

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: NOV. 1, 1957. CONTINUOUS USE.

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 12 G.A. 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: NO. F.

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: OCT. 15, 1957 - NOV. 1, 1957.

8. The depth of water table: 120 FEET FROM SURFACE.

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: 4 X 1, PIPE - 7/10 DEEP.

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

11. The log of formations encountered in the drilling of each well if available: APP. 75,000 gal.

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: Chime Eggers
Date: Dec. 23, 1963

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
Miss 15-603

236537

State of Montana, County of Phillips.
Filed and Recorded this 7-3... day of... A.D. 1963 at 1:50 a.m. and duly Recorded in book

Recorded
By: M. J. M. order

Deputy

--------------


Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner: Sanford Barrett  
Address: Malta, Montana

Driller: Simpson Drilling Co.  
Address: Malta, Montana

Date of Notice of appropriation of ground water: Oct 14, 1966
Date well started: Oct 14, 1966  
Date Completed: Oct 24, 1966

Type of well: Drilled  
Equipment used: Rotary

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>Top of Ground</th>
<th>(Rev. above sea level)</th>
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</thead>
<tbody>
<tr>
<td>0</td>
<td>14 brown clay &amp; gravel</td>
</tr>
<tr>
<td>14</td>
<td>rocks</td>
</tr>
<tr>
<td>18</td>
<td>brown clay &amp; gravel</td>
</tr>
<tr>
<td>29</td>
<td>brown clay &amp; gravel</td>
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<tr>
<td>33</td>
<td>brown clay &amp; gravel</td>
</tr>
<tr>
<td>35</td>
<td>brown clay &amp; gravel</td>
</tr>
<tr>
<td>53</td>
<td>brown clay &amp; gravel</td>
</tr>
<tr>
<td>57</td>
<td>brown clay &amp; gravel</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Size Drilled Hole</th>
<th>Size and Weight of Drilling</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>Kind of Strata</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>4&quot; 11' 0&quot;</td>
<td>0</td>
<td>580</td>
<td>clay</td>
<td>3/16</td>
<td>465</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well: 380 feet
Shut-in Pressure for Flowing Well: 330 psi
Pumping Water Level: 380 feet at 8 gal. per minute.
Discharge in gal. per min. of flowing well:

How Tested: bailer
Length of Test: 2 hours
Remarks: (Gravel packing, cementing, Packers, type of shut off, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation) gravel
packed well 420 to 580 bentonite on top of gravel pack

Driller’s License Number: 6
Driller’s Signature: [Signature]

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

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

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

County of Phillips.

Filed for record this ______ day of ______, A.D., ______.

[Signature]
Recorder.

By: ____________________

By: ____________________

Return: ____________________
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Joseph R. Peignieux
   (Name of Appropriator)
   Regina
   (Address)
   Phillips
   (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 and livestock

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: Sept 1956 steady

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

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:
   middle of Aug 1956 Finished at the end of Aug 1956

8. The depth of water table:
   210 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 4 in (size) 645 ft (deep)

10. The estimated amount of groundwater withdrawn each year:
    360,000 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:

Signature of Owner /s/ Joseph Peignieux
Date Regis. 31, 1963

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
Mar. 16024
237052.

Phillips Co.
Feb 12-31-63
At 10:15 A.M.
Fee $2.00.

R. V. Meloney
Clk & Receiver.
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. Name of Appropriate: ALFRED BLUNT
   (Name of Appropriate)
   Address: REGINA
   (Address)
   Town: PHILLIPS
   (Town)

   County of PHILLIPS
   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: WATERING LIVESTOCK.

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been: June, 1946 and in continuous use since that time.

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

   6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: Oil field type pump driven by gasoline motor.

   7. The date of commencement and completion of the construction of the well, well or other works for withdrawal of groundwater: commenced June 13, 1946 and completed June 22, 1946.

      Including pump for withdrawing water.

   8. The depth of water table: 340 feet.

   9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: Well is 670 feet deep, 3" casing pipe to 670 feet.

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

   11. The log of formations encountered in the drilling of each well if available: 0-10, sandy clay; 10-12, sand; 12-40, clay; 40-45, sand; 45-510, bear paw shale; 510-522, light grey shale; 522-570, rock layer; 570-580, sandy shale & sandstone; 580-570, rock; 570-579, sandy blue shale; 579-580, rock layer; 580-590, sandy grey shale; 590-615, sandy brown shale; 615-640, sandstone; 640-660, sandstone.

   12. Such other information or 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: ALFRED BLUNT
      Date: December 30, 1963

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriate.
Man. No. 15918

236946

Phillipic Co.

Filed 12-31-63.

at 9:16 A.M.

See # 2.05.

P.W. Maloney

Cl. & Sec.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER
OFFICE OF STATE ENGINEER

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

Owner:...
Address: Montana

Date of Notice of appropriation of groundwater... Date well started... Date completed...

Type of well... Equipment used...

(i.e. Drilled, cased or non-cased) (Chisel, rotary or other)

Water use: Domestic... Municipal... Stock... Irrigation...

Industrial... Drainage... Other...

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

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; three copies to be retained by driller.

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

[Signatures]

Driller's License Number

Driller's Signature

[Date]

61
**WATER WELL LOG**

Owner: Alme Paigneaux  
Address: Regina, Mont.

Driller: Claude Shores  
Address: Malta, Mont.

Date Started: September 25, 1957  
Date Completed: Oct 3, 1957

Location: Sec. _______ T. _______ R. _______

<table>
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<tr>
<th>Type of well</th>
<th>Drilled</th>
<th>Equipment used</th>
<th>Rotary</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

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

Casing:  
- 0 ft to 710 ft.  
- Type: ________________________  
- Size: 4 inch

Perforated or Screened:  
- 524 ft. to 671 ft.  
- Type: ________________________  
- Size: ________________________

Type of screen or perforations:  
- Inch holes drilled

Static Water level, for non-flowing well: 80 feet.

Shut-in pressure, for flowing well: 0 lb/sq. in. on: _______ (date)

Pumping water level: 315 feet at 12 gal per min.

How tested: _______ pumped

Length of test 6 hours

Remarks:  
- Gravel packing, cementing, packers, type of shut-off, depth of shut-off
  
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<table>
<thead>
<tr>
<th>Depth, feet</th>
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<td>To</td>
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State of North Carolina, County of [Redacted], Register of Deeds, A. P. 1976, #20.
<table>
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<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>G &amp; Y</td>
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<td>William J. Cotton</td>
<td>57</td>
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<td>215455</td>
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<td>William J. Cotton</td>
<td>G &amp; Y</td>
<td>237234</td>
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<tr>
<td>32</td>
<td>Alfred Hunt</td>
<td>G &amp; Y</td>
<td>251945</td>
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</tbody>
</table>
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana General Laws, 1961)

1. WILLIAM J. COTTER, of Malta
   (Name of Appropriator)  
   (Address)  
   (Town)  
   County of Phillips  
   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

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

4. The amount of groundwater claimed (in inches or gallons per minute) 8 gpm

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1956

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 710 feet deep 4 3/8 feet 4 casing 5 5/8 feet 3 inch casing

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

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

Log information contained in document #219446, records of Phillips County, Montana

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: William J. Cotter
Date: Jan. 21, 1963

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
Filed 12-31-63
at 10:41 A.M.
Fee $2.00
R. W. Meloney
Clk & Recorder
# WATER WELL LOG

**Owner:** William Cotter  
**Address:** Malte, Montana

**Driller:** R. C. Siegmen  
**Address:** Malte, Montana

**Date Started:** Nov 26  
**Date Completed:** Dec 6, 1956

**Location:** Sec. 26, T 25 N, R 30 E W1/2 sec. 62 S.

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<thead>
<tr>
<th>Type of Well</th>
<th>Equipment Used</th>
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<tbody>
<tr>
<td>rotary</td>
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</tbody>
</table>

- **Type of Well:** Drilled  
- **Equipment used:** Rotary

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

- **Casing:**  
  - 0 ft. to 434 ft. Type: screw joint , Size: 4 1/2 inch casing
  - 434 ft. to 765 ft. Type: screw joint , Size: 3 inch
  - 765 ft. to 1000 ft. Size: 6 inch

- **Perforated or Screened:** Drilled 6 inch holes

- **Type of screen or perforations:** Water level, 20 feet

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

- **Shut-in pressure, for flowing well:** 80 lb./sq. in. on: (date)

- **Pumping water level:** 40 feet at: 8 gal. per min.

- **How tested:** bailer 3 hours

- **Length of test:** 3 hours

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

- Packers added above perforations

---

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
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</thead>
<tbody>
<tr>
<td>0 - 2</td>
<td>top soil</td>
</tr>
<tr>
<td>2 - 16</td>
<td>sandy brown clay</td>
</tr>
<tr>
<td>16 - 20</td>
<td>gravel boulders</td>
</tr>
<tr>
<td>20 - 83</td>
<td>brown clay</td>
</tr>
<tr>
<td>83 - 96</td>
<td>grey shale</td>
</tr>
<tr>
<td>96 - 215</td>
<td>dark shale</td>
</tr>
<tr>
<td>215 - 460</td>
<td>bear paw</td>
</tr>
<tr>
<td>460 - 540</td>
<td>blue shale</td>
</tr>
<tr>
<td>540 - 573</td>
<td>Judith river</td>
</tr>
<tr>
<td>573 - 578</td>
<td>rock layer</td>
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<tr>
<td>578 - 600</td>
<td>blue shale</td>
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<tr>
<td>600 - 622</td>
<td>sandstone</td>
</tr>
<tr>
<td>622 - 642</td>
<td>blue shale</td>
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<tr>
<td>642 - 656</td>
<td>sandstone</td>
</tr>
<tr>
<td>656 - 680</td>
<td>blue shale</td>
</tr>
<tr>
<td>680 - 710</td>
<td>shale and sandstone layers</td>
</tr>
<tr>
<td>710 - 765</td>
<td>blue shale</td>
</tr>
</tbody>
</table>

Log of Well
WATER WELL LOG

Owner: William Cotter  Address: Malta, Montana

Driller: R. C. Simpson  Address: Malta, Montana

Date Started:  Date Completed: January 10, 1949

Location: Sec. 27  T.25 N.  R.30 E.  1/4 sec. NW1/4

Type of well: Drilled  Equipment used: Pump

Water use: Domestic  Municipal  Stock  Irrigation

Industrial  Drainage  Other:

Casing: 0 ft. to 95 ft.  Type: Screw Joint  Size: 4 inch

Casing: 95 ft. to 130 ft.  Type: Screw Joint  Size: 3 inch

Casing: 130 ft. to 170 ft.  Type:  Size: 2 inch

Perforated or Screened: 5/16 holes

Static Water level, for non-flowing well: 15 feet

Shut-in pressure, for flowing well: (date)

Pumping water level: 70 feet at 5 gal. per min

How tested: Sailing

Length of test:

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 - 565</td>
<td>not known</td>
</tr>
<tr>
<td>565 - 585</td>
<td>blue shale</td>
</tr>
<tr>
<td>585 - 600</td>
<td>sandstone</td>
</tr>
<tr>
<td>600 - 606</td>
<td>rock layer</td>
</tr>
<tr>
<td>606 - 620</td>
<td>sandstone</td>
</tr>
<tr>
<td>620 - 624</td>
<td>rock layer</td>
</tr>
<tr>
<td>624 - 720</td>
<td>sandstone</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. WILLIAM J. COTTER, of Malta
   (Name of Appropriator)

   County of Phillips
   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: 1949

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

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

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

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1947 - 1949

   8. The depth of water table: 30 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:
      710 feet deep, casing 4, 3, & 2 inch

   10. The estimated amount of groundwater withdrawn each year: 3,000,000

   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: William J. Cotter
   Date: December 31, 1963

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
### Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. **ALFRED HUNT** (Name of Appropriator) of **REGINA** (Address) (Town)

   County of **PHILLIPS** State of **MONTANA**

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

   1. **DOMESTIC USE** & FOR WATERING LIVESTOCK.

   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. **June 3, 1946 and in continuous use since that date.**

   4. The amount of groundwater claimed (in miner's inches or gallons per minute) **five 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 used for irrigation.**

   6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. **Cylinder pump driven by electricity.**

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. **Well was commence in June, 1946 and completed in that month. Works for withdrawal of groundwater also installed at that time.**

   8. The depth of water table. **610 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. **3" casing pipe perforated 5/16" holes 480 to 610 feet.**

   10. The estimated amount of groundwater withdrawn each year. **1,100,000 gallons per year.**

   11. The log of formations encountered in the drilling of each well if available: 0-43, sand & clay; 43-288, 322, dark shale (bear paw); 392-395, rock layer; 395-420, shale Judith River; 420-432, sandstone; 432-436, rock layer; 436-440, shale & sandstone; 440-490, blue shale; 490-512, sandstones; 512-515, rock layer; 515-540, shale & sandstone layers; 540-610, ditto.

   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: **ALFRED HUNT**

Date: **December 30, 1963**

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriateor.
Mue. #15917

236965
Phillips Co.
Filed 12-31-63.
at 9:15 A.M.
Fee $2.00
R. W. Meloney
Cl & Sec.
<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>25</td>
<td>Edwin Johnson</td>
<td>1958</td>
<td>20426</td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>Anna Holzhey</td>
<td>624</td>
<td>234129</td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>heroine Haimsky</td>
<td>624</td>
<td>2 36434</td>
<td></td>
</tr>
</tbody>
</table>
# WATER WELL LOG

**Owner:** Edin Johnston  
**Address:** Malta, Montana

**Driller:** R. E. granite  
**Address:** Malta, Montana

**Date Started:** November 21, 1945  
**Date Completed:** December 20, 1945

**Location:** Sec. 25, T. 25 N., R. 31 W., 1/4 sec. SE. of SE.

<table>
<thead>
<tr>
<th>Type of Well</th>
<th>Drilled</th>
<th>Equipment Used</th>
<th>Churn</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Use:</td>
<td>Domestic</td>
<td>Municipal</td>
<td>Stock</td>
</tr>
<tr>
<td></td>
<td>Industrial</td>
<td>Drainage</td>
<td>Other</td>
</tr>
<tr>
<td>Casing:</td>
<td>0 ft. to 15 ft.</td>
<td>15 ft. to 30 ft.</td>
<td>30 ft. to 45 ft.</td>
</tr>
<tr>
<td>Casing:</td>
<td>55 ft. to 75 ft.</td>
<td>75 ft. to 95 ft.</td>
<td>95 ft. to 105 ft.</td>
</tr>
<tr>
<td>Casing:</td>
<td>110 ft. to 120 ft.</td>
<td>120 ft. to 130 ft.</td>
<td>130 ft. to 140 ft.</td>
</tr>
<tr>
<td>Perforated or Screened:</td>
<td>610-640 ft.</td>
<td>640-650 ft.</td>
<td>650-750 ft.</td>
</tr>
<tr>
<td>Type of Screen or Perforation:</td>
<td>drilled holes</td>
<td>drilled holes</td>
<td>drilled holes</td>
</tr>
<tr>
<td>Static Water Level, for non-flowing well:</td>
<td>25 feet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shut-in Pressure, for flowing well:</td>
<td>lb./sq. in.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pumping Water Level:</td>
<td>30 feet at 21 gal. per min.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>How tested:</td>
<td>bailer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length of Test:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remarks:</td>
<td>(Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 3</td>
<td>brown clay</td>
</tr>
<tr>
<td>3 - 5</td>
<td>sand</td>
</tr>
<tr>
<td>5 - 172</td>
<td>sand gravel, clay and rocks, some water (strong)</td>
</tr>
<tr>
<td>172 - 222</td>
<td>bear gray shale</td>
</tr>
<tr>
<td>222 - 272</td>
<td>white rock layer</td>
</tr>
<tr>
<td>272 - 322</td>
<td>bear gray shale</td>
</tr>
<tr>
<td>322 - 372</td>
<td>rock layer</td>
</tr>
<tr>
<td>372 - 422</td>
<td>bear gray shale</td>
</tr>
<tr>
<td>422 - 472</td>
<td>tan sandy shale</td>
</tr>
<tr>
<td>472 - 485</td>
<td>rock layer</td>
</tr>
<tr>
<td>485 - 498</td>
<td>tan shale</td>
</tr>
<tr>
<td>498 - 506</td>
<td>hard layer</td>
</tr>
<tr>
<td>506 - 522</td>
<td>tan shale</td>
</tr>
<tr>
<td>522 - 537</td>
<td>grey shale</td>
</tr>
<tr>
<td>537 - 555</td>
<td>brown shale</td>
</tr>
<tr>
<td>555 - 572</td>
<td>sandy gray shale</td>
</tr>
<tr>
<td>572 - 585</td>
<td>brown tan shale</td>
</tr>
<tr>
<td>585 - 592</td>
<td>rock</td>
</tr>
<tr>
<td>592 - 600</td>
<td>blue shale</td>
</tr>
<tr>
<td>600 - 644</td>
<td>brown shale</td>
</tr>
<tr>
<td>644 - 661</td>
<td>sandstone</td>
</tr>
<tr>
<td>661 - 688</td>
<td>sandy blue shale</td>
</tr>
<tr>
<td>688 - 722</td>
<td>sandy brown shale</td>
</tr>
<tr>
<td>722 - 730</td>
<td>brown shale</td>
</tr>
<tr>
<td>730 - 790</td>
<td>sandstone with thin shale layers</td>
</tr>
<tr>
<td>790 -</td>
<td>brown sandstone with tan and brown shale layers</td>
</tr>
</tbody>
</table>

read type pump installed with 90 ft. 4 pipe and red abobe cylinder and 9 feet pipe below, dia of cylinder 2 3/4".

 Mime. 1917