Log of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>To</td>
</tr>
<tr>
<td>0</td>
<td>30</td>
</tr>
<tr>
<td>30</td>
<td>about 700</td>
</tr>
<tr>
<td>700</td>
<td>1100</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. Virginia L. Koss
   (Name of Appropriator) of 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: Livestock and garden irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1900—practically continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 10-12 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: Two acres, NE-35 Sec. 35 T24 R 32

   Virginia L. Koss

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

   NE Sec. 35 T24 R 32

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

8. The depth of water table: Approximately 15 ft.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: 10 ft. across and 20 ft. deep

10. The estimated amount of groundwater withdrawn each year: From 1 to 2 million gallons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

   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.
M isc/16045
237073.

Phillips Co.
Filed 12-31-63.
at 11:16 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)

Virginia L. Koss
(Name of Appropriator) of Montana
County of Phillips
(Town) 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 and livestock and irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: #1 1916 #2 Approx. 1920

4. The amount of groundwater claimed (in miner's inches or gallons per minute): #1 6 gal. #2 5 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:

Two acres Sec. 36 T 21 N R 32

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: #1 Windmill #2 Pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1916 and 1920

8. The depth of water table: #1 sixteen ft. #2 20 - 30 ft.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: #1 5x16 ft. #2 2 x 24 ft.

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

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/ Virginia L. Koss
Date: 12/31/63

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
Miss 16046
237014

Phillips Co.
Filed 12-31-63.
At 11:17 A.M.
Fee $2.00.

R. V. Maloney
Clark & Recorder.
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<td>Education Kranz</td>
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Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. Edwin Koss
   (Name of Appropiator)
   Address
   (Address)
   Regina
   (Town)
   County of
   (County)
   State of Montana
   (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
   Livestock

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
   1961 Continuous use

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

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

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

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

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
   750 ft deep open 15 x 15 ft grouted steel pipe

10. The estimated amount of groundwater withdrawn each year
    500,000 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: S/S Edwin Koss  
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 Montana Bureau of Mines and Geology, and Quadruplicate for the Appropiator.
Mar 16 109
257137

Phillip Co.

Filed 12-31-63
at 11:15 PM

Lee $2.00

R. J. Maloney
Clerk & Recorder
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. Edwin Koss, of Regina, (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: Livestock

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: April 1961, continuous use

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 6 gals. 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: See Map

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

8. The depth of water table: Not certain

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: 100 feet; live clay; 3-sided

10. The estimated amount of groundwater withdrawn each year: 600,000

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: S/S Edwin Koss
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 Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
Misc. 16108
16108
237136

Phelps Co.
Fees 12-31-63
at 11:14 P.M
See 2.00

R. J. Maloney
Clerk & Recorder.
### Groundwater Index

**County:** Phillips  
**Twp.:** 230  
**Rge.:** 24E

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STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1966
(Under Chapter 237, Montana Session Laws, 1961)

Owner: Farmers Union
Address: Laurel, Montana

Date of Notice of appropriation of ground water: May 4, 1969
Date completed: October 19, 1969

Type of well: Drilled
Equipment used: Rotary
(Dug, driven, bored or drilled) (Chambers, drill, rotary or other)

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

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

<table>
<thead>
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<th>Dec. No.</th>
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<tbody>
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<td>19 day of March</td>
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<td>A. D. 19</td>
<td>70</td>
</tr>
<tr>
<td>o'clock</td>
<td>8:10</td>
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</tbody>
</table>

Static Water Level for non-flowing well:

Shut-in Pressure for Flowing Well: 70 psi
Pumping Water Level: 30 feet
Discharge in gal. per min. of flowing well: 30 gpm

How Tested:

Length of Test:

Indicate: Location of well and place of test, if possible. Each small square represents 40 acres.

1853指示 exact depth of bottom.

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

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

/s/ Dante Solarz
District Manager

1/6/254
<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
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<td>31</td>
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<td>C-121</td>
<td>221151</td>
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</table>
Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: 1957

Owner: Lazy JD Cattle Co
Address: Zortman, Montana

Contractor (if any)
Address of Contractor

Date Started: 1957
Date Completed: 1963

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. "natural spring, curbed and pumped to tank"

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use: 10 gpm, continuous use

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

Signature of Owner: [Signature]
Date: December 26th, 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 Quadruplicate for the Appropriator.
Nets 15731
15731

226702

F. I. Dec. 30, 1963
At 2:00 P.M.
J. G. & L.

Rosalind Meloney
Claimed as lurer.
### Notice of Completion of Groundwater Appropriation by Means of Well

**State of Montana**

**Administrator of Groundwater Code**

**Office of State Engineer**

(Under Chapter 237, Montana Session Laws, 1961)

---

**Owner:**[Name]

**Driller:**[Name]

---

**Date of Notice of Appropriation of Groundwater:**

**Appropriation Date:**

**Type of Well:** Dredged

**Equipment Used:**

**Water Use:** Domestic, Municipal, Stock, Irrigation

**Water-bearing strata and height to which the water rises in the well:**

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

---

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

**Shut-in Pressure for Flowing Well:**

**Pumping Water Level:**

---

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

**Remarks:**

---

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 quaduplicate for the Appropriator.
State of Montana,
County of Phillips,
Filed for Record this 19th day of Sept. A. D. 1923 at 10 o'clock A.M., and duly Recorded in book of...
Notice of Appropriation of Groundwater
(Under Chapter 237, Montana Session Laws, 1961)

1. Name of Appropriator: 
   Address: 
   Town: 
   County of Phillips, State of Montana, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.

2. The beneficial use to which water is to be applied is stockwater.
   (describe lands to be benefited, if for irrigation)

3. The rate of use in gallons per minute or miner's inches of groundwater claimed: 20 gallons per minute

4. The annual period (inclusive dates) of intended use: April to December

5. The probable or intended date of first beneficial use: May 1962

6. The probable or intended date of commencement and completion of the well or wells: May 1962

7. The location, type, size and depth of well or wells contemplated: SW 1/4 Sec. 32, T. 23 N., R. 25 E.
   Depth: 850 feet

8. The probable or estimated depth of the water table or artesian aquifer: 850 feet

9. Name, address and license number of the driller engaged: Addition Water Well Drilling, Glendive, Montana

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

   Signature of Appropriator: /s/ Chester E. Conard
   Date: February 20, 1962

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

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the School of Mines and Quadruplicate for the Appropriator.
State of Montana,
County of Phillips,

Filed for Record this... day of March, A. D. 1967, at 12 o'clock P.M., and duly recorded in book
Page 231151 of

Kooskia, Montana

By: ........................................

Filed: 3/2/67

Return: .................................
<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>County File No.</th>
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<tr>
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<td>New B. Illinois</td>
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<td>23-0029</td>
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Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. Name of Appropriator: ____________
   (Address): _______________________
   County of: _______________________
   State of: _______________________

   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: ____________

   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, walls, 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.
15899
Mine #15 899
236927

Falk Nov. 31, 1963
at 8:58 A.M.
fee 2.00

P. V. Maloney
Warden & Recorder
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS

RECEIVED
DEC 13 1963

STATE ENGINEER

1. REX D. ULBRICH
   (Name of Appropriate)
   of REGINA
   (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: LIVESTOCK USE.

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been: Used continuously for livestock since 1917.

   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: 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: Electric pump is used to withdraw water.

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

   8. The depth of water table: Twentyeight 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: Cement curbing, 4" x 4", being 7 feet above ground and 28 feet into the ground. Curbing covered with platform on which is located electric pump used to withdraw water from well.

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

   11. The log of formations encountered in the drilling of each well if available: Dirt, clay, gravel, sand and water.

   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 11, 1963

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriate.
State of Montana,
County of Phillips,

Filed for Record this 17th day of Dec., A. D. 19__.

Office of J. M. and duly Recorded in book

[Signature]
Recorder

By:

Febr. 20, 19__

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. Name:
   (Name of Appropriator)

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:
   (Month, Year)

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:

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:
   (Depth)

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

10. The estimated amount of groundwater withdrawn each year:
    (Amount)

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 Appropriate.
at 8:59 P.M.
Fee + 2.00.
R. V. Maloney
Clerk & Recorder.
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. (Name of Appropriator) of (Address) in (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.

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: Dec 27, 1963

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
Case 15701
236929

At 1:20 T.M.
Fee $2.00
R.V. Maloney
Clk & Recorder.
## Groundwater Index

**County:** Phillips  
**Twp.:** 23  
**Rge.:** 39

<table>
<thead>
<tr>
<th>Sec.</th>
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<th>Type of Form</th>
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<td>152</td>
<td>Archie Carbonell</td>
<td>1957</td>
<td>214047</td>
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</table>
STATE OF MONTANA
ADMINISTER OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Archib Carberry
   (Name of Appropriator) of 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:

   Stock

   2. The beneficial use on which the claim is based

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

   1957 continuous

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

   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

   Electric pump

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

   August 31, 1957 - Sept. 15, 1957

   8. The depth of water table

   40 ft.

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

   A 6 in. Iron casing 730 ft. deep

   10. The estimated amount of groundwater withdrawn each year

   1,000,000 gallons

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

   0-17 Top soil, 17-19 Gravel
   19-40 Clay, 40-517 Shale, 517-518 Rock 8 in., 518-528 Sand & shale,
   528-599 Rock 10 in., 599-515 Sandstone & gravel, 515-536 Rock 6 in., 536-555
   Sandstone and shale, 555-57 Rock 28 in., 577-688 Shale and sand, 688-722
   gravel, 52-610 Shale, 610-611 Rock 12 in., 611-637 Shale, 637-688

   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

   Rock 6 in. 688-722 Sand and gravel 722-730 Sandy shale

   Signature of Owner

   Date Dec. 20, 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.
<table>
<thead>
<tr>
<th>State of</th>
<th>ss.</th>
</tr>
</thead>
<tbody>
<tr>
<td>County</td>
<td></td>
</tr>
<tr>
<td>File</td>
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<tr>
<td>Dec. 1870</td>
<td></td>
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<tr>
<td>R. E. day</td>
<td></td>
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<tr>
<td>clerk R. and proxy</td>
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<tr>
<td>Filed</td>
<td></td>
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<tr>
<td>County Recorder</td>
<td></td>
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<tr>
<td>By</td>
<td></td>
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<tr>
<td>Fee</td>
<td>$2.00</td>
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<tr>
<td>Return</td>
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</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. Archie Carberry
   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 and stock

3. Date or approximate date of earliest beneficial use and how continuous the use has been: 1958

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

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: ABOUT JULY 1958

8. The depth of water table: 140 ft.

9. So far as it may be available, the type, size and depth of each well or the general specifications of works for the withdrawal of groundwater:
   4½ in. CASING, 8½ ft. DEEP, STIFFENI

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

11. The log of formations encountered in the drilling of each well if available:
   0-7 top soil, 7-36 clay,

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

Signature of Owner: Archie Carberry
Date: December 20, 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 Montana, ss.

Filed in the office of
Recorder of District Court, No.

Recorded: Dec. 28, 1895

By:

Feb. 17, 1896

Return.
<table>
<thead>
<tr>
<th>Location: Sec. 23, T. 29 N., R. 29 W., 1/4 sec. NE</th>
<th>Date Started</th>
<th>Date Completed</th>
</tr>
</thead>
</table>

**Type of well:** Drilled  
**Equipment used:** Rotary  
**Type of screens or perforations:**  
**Static water level, for non-flowing well:** 140 feet  
**Shut-in pressure, for flowing well:** lb/sq. in.: (date)  
**Pumping water level:** 240 feet at: 6 gal. per min.  
**How tested:**  
**Length of test:**  
**Remarks:** (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>To</td>
</tr>
<tr>
<td>0</td>
<td>7</td>
</tr>
<tr>
<td>7</td>
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<tr>
<td>782</td>
<td>783</td>
</tr>
<tr>
<td>783</td>
<td>131</td>
</tr>
</tbody>
</table>
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. REX D. ULBRICH, of REGINA
   County of PHELPS, State of MONTANA
   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:
   
   2. The beneficial use on which the claim is based: livestock use.

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been: has been continuously used for watering livestock since 1913.

   4. The amount of groundwater claimed (in miner's inches or gallons per minute): Water flows from underground spring and keeps the basin full.

   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 purposes.

   6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: spring flows naturally into basin where it is held for use by livestock.

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: this spring has been flowing into basin since 1913, no works are used to withdraw water.

   8. The depth of water table: 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: Natural spring flow, size of basin is approximately 100 feet square.

   10. The estimated amount of groundwater withdrawn each year: cannot be estimated.

   11. The log of formations encountered in the drilling of each well if available: none 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: this spring flows into a large basin where is is held for use by livestock.

Signature of Owner: [Signature]
Date: December 11, 1963

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

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

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

**Owner:** Martin Sandwich  
**Address:** Regina, Mont.

**Driller:** Glenda Smith  
**Address:** Butte, Mont.

**Date Started:** August 15, 1957  
**Date Completed:** Aug 21, 1957

**Location:** Sec 3, T. 33, R. 27 1/4 sec.

---

### Type of Well
- Drilled

### Equipment Used
- Rotary

### Water Use
- Domestic [x]
- Municipal [ ]
- Stock [ ]
- Irrigation [ ]
- Industrial [ ]
- Drainage [ ]
- Other [ ]

### Casing
- 0 ft. to 140 ft.  
  - Type:  
  - Size: 4 inch

### Perforated or Screened
- From 54.5 ft. to 555 ft.  
  - Type:  
  - Size:  
- From 584 ft. to 585 ft.  
  - Type:  
  - Size:  

### Static Water Level
- 36 feet

### Shut-in Pressure
- 760 lb./sq. in.

### Pumping Water Level
- 250 feet at 5 gallons per min.

### How Tested
- Bailed

### Length of Test
- 3 hours

### Remarks
- Gravel packing, cementing, packers, type of shut-off, depth of shut-off

---

(over)
<table>
<thead>
<tr>
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<th>579</th>
<th>612</th>
<th>635</th>
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<tbody>
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<td>592</td>
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<td>658</td>
<td>701</td>
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<td>739</td>
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<td>590</td>
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<td>656</td>
<td>699</td>
<td>738</td>
</tr>
</tbody>
</table>

State of Montana, County of Phillips,Filed for Record this 13th day of A. D. 1957 at 3:55 o'clock C.M. and duly recorded in book Page 215780

Joseph Judge County Recorder
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 30</td>
<td>loess with occasional rock</td>
</tr>
<tr>
<td>30 - 65</td>
<td>clay with occasional rock</td>
</tr>
<tr>
<td>65 - 130</td>
<td>shale with occasional rock</td>
</tr>
<tr>
<td>130 - 545</td>
<td>shale</td>
</tr>
<tr>
<td>545 - 548</td>
<td>rock (32 inches thick)</td>
</tr>
<tr>
<td>548 - 554</td>
<td>gravel</td>
</tr>
<tr>
<td>554 - 579</td>
<td>shale</td>
</tr>
<tr>
<td>579 - 582</td>
<td>rock (37 inches; very hard)</td>
</tr>
<tr>
<td>582 - 611</td>
<td>sand and gravel</td>
</tr>
<tr>
<td>611 - 612</td>
<td>rock (8 inches thick)</td>
</tr>
<tr>
<td>612 - 625</td>
<td>shale</td>
</tr>
<tr>
<td>625 - 636</td>
<td>rock (10 inches thick)</td>
</tr>
<tr>
<td>636 - 685</td>
<td>shale</td>
</tr>
<tr>
<td>685 - 686</td>
<td>rock (12 inches thick)</td>
</tr>
<tr>
<td>686 - 710</td>
<td>sand and gravel</td>
</tr>
<tr>
<td>710 - 730</td>
<td>shale</td>
</tr>
<tr>
<td>730 - 748</td>
<td>shale with rock layers</td>
</tr>
</tbody>
</table>

State of Montana,  
County of Phillips,  
Filed for Record the  
1924 day  
Filed for Record the  
A. B. 1924  
Recorded in book  
of  
1st day  
of  

R. H. [Signature]

[Signature]  

215780  
0.145  

WATER WELL LOG

Owner: John Matovich
Address: Regina, Mont.

Driller: Claude Ray Preis
Address: Malta, Mont.

Date Started: Sept. 29, 1958
Date Completed: Oct. 4, 1958

Location: Sec. 35 T. 23 R. 29 W. 5

Type of well: Drilled
Equipment used: Rotary

Water use: Stock

Casing: 0 ft. to 740 ft. Type: 0D

Perforated or Screened: 540 ft. to 630 ft. 650 ft. to 730 ft.

Type of screen or perforations: 3/8 inch slots drilled

Static Water level, for non-flowing well: 25 feet.

Shut-in pressure, for flowing well: 25 lb./sq. in.

Pumping water level: 200 feet at 5 gal. per min.

Remarks: Gravel packing, cementing, packers, type of shut-off, depth of shut-off.
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
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<tbody>
<tr>
<td>0-20</td>
<td>Topsoil</td>
</tr>
<tr>
<td>20-190</td>
<td>Shale</td>
</tr>
<tr>
<td>190-200</td>
<td>Bentonite</td>
</tr>
<tr>
<td>200-510</td>
<td>Shale</td>
</tr>
<tr>
<td>510-511</td>
<td>Rock (1/2 inches)</td>
</tr>
<tr>
<td>511-599</td>
<td>Judith formation</td>
</tr>
<tr>
<td>599-639</td>
<td>Rock (1/2 inches)</td>
</tr>
<tr>
<td>637-639</td>
<td>Judith formation</td>
</tr>
<tr>
<td>639-674</td>
<td>Rock (1/4 inches)</td>
</tr>
<tr>
<td>674-675</td>
<td>Rock (1/2 inches)</td>
</tr>
<tr>
<td>675-740</td>
<td>Judith formation</td>
</tr>
</tbody>
</table>
# Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. **Appropriator:** John Matrinell  
   **Address:** Phillips  
   **Locality:** Melocollo  
   **County of:** Phillips  
   **State of:** Montana

These appear to be vested groundwater rights claims. The form requires the following information:

<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Name of Appropriate Groundwater Right</td>
<td>John Matrinell</td>
</tr>
<tr>
<td>2. Name of Town</td>
<td>Melocollo</td>
</tr>
<tr>
<td>4. Name of State</td>
<td>Montana</td>
</tr>
</tbody>
</table>

The form requires the following information for each claim:

- **Appropriator:** John Matrinell  
- **Address:** Phillips  
- **Locality:** Melocollo  
- **County of:** Phillips  
- **State of:** Montana

- **The beneficial use on which the claim is based:** Stock water
- **Date or approximate date of earliest beneficial use:** Oct 4, 1958
- **Amount of groundwater claimed:** 5 gallons per minute
- **If used for irrigation:** None
- **The means of withdrawing such water from the ground:** None

- **The depth of water table:** 25 feet
- **The estimated amount of groundwater withdrawn each year:** 2,500,000 gallons

- **Signature of Owner:** John Matrinell  
  **Date:** Dec 24, 1973

The form requires answering all questions. If not applicable, state otherwise. The form is to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.
<table>
<thead>
<tr>
<th>Type of well</th>
<th>Drilled</th>
<th>Equipment used</th>
<th>Rotary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water use</td>
<td>Domestic</td>
<td>Municipal</td>
<td>Stock</td>
</tr>
<tr>
<td>Casing</td>
<td>0 ft. to 730 ft.</td>
<td>Type</td>
<td>Size</td>
</tr>
<tr>
<td>Casing</td>
<td>730 ft. to</td>
<td>Type</td>
<td>Size</td>
</tr>
<tr>
<td>Casing</td>
<td>730 ft. to</td>
<td>Type</td>
<td>Size</td>
</tr>
<tr>
<td>Perforated or Screened</td>
<td>557 ft. to 572 ft.</td>
<td>610 ft. to 720 ft.</td>
<td></td>
</tr>
<tr>
<td>Static Water level, for non-flowing well</td>
<td>40 feet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shut-in pressure, for flowing well</td>
<td>40 lb./sq. in. on</td>
<td>(date)</td>
<td></td>
</tr>
<tr>
<td>Pumping water level</td>
<td>273 feet at 5 gal. per min</td>
<td></td>
<td></td>
</tr>
<tr>
<td>How tested</td>
<td>Pumped</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length of test</td>
<td>10 hrs</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

(over)
<table>
<thead>
<tr>
<th>Taxable Year</th>
<th>Property</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>Lot 12</td>
<td>123 Main St</td>
</tr>
<tr>
<td>2020</td>
<td>Lot 13</td>
<td>456 Oak Ave</td>
</tr>
<tr>
<td>2021</td>
<td>Lot 14</td>
<td>789 Pine Dr</td>
</tr>
<tr>
<td>2022</td>
<td>Lot 15</td>
<td>210 Elm St</td>
</tr>
<tr>
<td>2023</td>
<td>Lot 16</td>
<td>432 Cedar Ln</td>
</tr>
<tr>
<td>2024</td>
<td>Lot 17</td>
<td>654 Maple Ave</td>
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<tr>
<td>2025</td>
<td>Lot 18</td>
<td>876 Spruce St</td>
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<tr>
<td>2026</td>
<td>Lot 19</td>
<td>901 Willow Rd</td>
</tr>
<tr>
<td>2027</td>
<td>Lot 20</td>
<td>1234 Birch St</td>
</tr>
</tbody>
</table>

**State of Montana**

**County of Phillips**

Filed for Record the 3rd day of July, 1993, in and for the office of Clerk of District No. 2 and duly recorded in book 55, page 55, Records of the County Recorder of Phillips County, Montana.
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 17</td>
<td>Top soil</td>
</tr>
<tr>
<td>17 - 19</td>
<td>Gravel</td>
</tr>
<tr>
<td>19 - 40</td>
<td>Clay</td>
</tr>
<tr>
<td>40 - 517</td>
<td>Shale</td>
</tr>
<tr>
<td>517 - 518</td>
<td>Rock (6 inches)</td>
</tr>
<tr>
<td>518 - 528</td>
<td>Sand and shale</td>
</tr>
<tr>
<td>528 - 529</td>
<td>Rock (10 inches)</td>
</tr>
<tr>
<td>529 - 535</td>
<td>Sandstone and gravel</td>
</tr>
<tr>
<td>535 - 536</td>
<td>Rock (6 inches)</td>
</tr>
<tr>
<td>536 - 555</td>
<td>Sandstone and shale</td>
</tr>
<tr>
<td>555 - 557</td>
<td>Rock (28 inches)</td>
</tr>
<tr>
<td>557 - 567</td>
<td>Shale and sand</td>
</tr>
<tr>
<td>567 - 572</td>
<td>Gravel</td>
</tr>
<tr>
<td>572 - 610</td>
<td>Shale</td>
</tr>
<tr>
<td>610 - 611</td>
<td>Rock (12 inches)</td>
</tr>
<tr>
<td>611 - 655</td>
<td>Shale</td>
</tr>
<tr>
<td>655 - 688</td>
<td>Sandstone and gravel</td>
</tr>
<tr>
<td>688 - 689</td>
<td>Rock (6 inches)</td>
</tr>
<tr>
<td>689 - 732</td>
<td>Sand and gravel</td>
</tr>
<tr>
<td>732 - 730</td>
<td>Sandy shale</td>
</tr>
<tr>
<td>Sec.</td>
<td>Name of Appropriator</td>
</tr>
<tr>
<td>------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>5</td>
<td>Earl R. Stover</td>
</tr>
<tr>
<td>7</td>
<td>Widmark &amp; Smith</td>
</tr>
<tr>
<td>7</td>
<td>V. G. &amp; R. V. N. V.</td>
</tr>
<tr>
<td>11</td>
<td>Earl R. Stover</td>
</tr>
<tr>
<td>11</td>
<td>Earl C. Smith</td>
</tr>
<tr>
<td>16</td>
<td>Ray &amp; Jim Shov</td>
</tr>
<tr>
<td>19</td>
<td>H. J. &amp; R. W. V. V. V.</td>
</tr>
<tr>
<td>19</td>
<td>V. G. &amp; R. V. N. V.</td>
</tr>
<tr>
<td>20</td>
<td>V. G. &amp; R. V. N. V.</td>
</tr>
</tbody>
</table>
## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

### Earl R. Shores

<table>
<thead>
<tr>
<th>Name of Appropriator</th>
<th>Address</th>
<th>Town</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Regina</strong></td>
<td><strong>Montana</strong></td>
<td></td>
</tr>
</tbody>
</table>

**County of Phillips**  **State of Montana**

I, **Earl R. Shores**, have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

1. **Declaration of Vested Groundwater Rights**

2. The beneficial use on which the claim is based: **Stock Water + House Water**

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): 2 gpm - 12 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:

   - **Natural Flow**

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: 3,000,000 ft³

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

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**

Earl R. Shores

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.
<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>236470</td>
<td>Montana, County of. Filed to record this... day of... A. Co. p. 11... 11...</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)  

I. Wiederruck Brothers  
(Name of Appropriator)  

County of Phillips  
(County)  

State of Montana  
(State)  

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: Sept. 6, 1947 continuous

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: 

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: started August 27, 1947, completed Sept. 6, 1947

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: 240' welded, 4' casing, from 220' to 820' welded, 3' casing, 25 to 330' to 820' perforated 5/16 drilled holes

10. The estimated amount of groundwater withdrawn each year: 518,400 gallons per year

11. The log of formations encountered in the drilling of each well if available: 0 to 178' clay, 178' to 354' Bear Paw shale, 354 to 375' shale, 375 to 500' sandstone, 500 to 520' shale, 520 to 620' sandstone

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

Signature of Owner: [Signature]
Date: December 20, 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.
**MONTANA BUREAU OF MINES AND GEOLOGY**

**STATE ENGINEER**

**WATER WELL LOG**

<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>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>0</td>
<td>drilled</td>
<td>6 feet</td>
<td>lbs/sq. in.</td>
<td>feet at 200 feet</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Stock</td>
<td>200</td>
<td>drilled</td>
<td>5/16 holes</td>
<td></td>
<td></td>
<td></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>From</td>
<td>To</td>
</tr>
<tr>
<td>0</td>
<td>60</td>
</tr>
<tr>
<td>60</td>
<td>115</td>
</tr>
<tr>
<td>115</td>
<td>1160</td>
</tr>
<tr>
<td>1160</td>
<td>1780</td>
</tr>
<tr>
<td>1780</td>
<td>185</td>
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<td>185</td>
<td>395</td>
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<td>396</td>
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<td>5775</td>
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<td>338</td>
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<td>705</td>
<td>708</td>
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<td>708</td>
<td>709</td>
</tr>
<tr>
<td>709</td>
<td>810</td>
</tr>
<tr>
<td>810</td>
<td>820</td>
</tr>
</tbody>
</table>
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. **EARL R. SHORES**, of **REGINA**
   - **Address**: 
   - **Town**: 

   **County of PHILIPS, 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: **JULY 25, 1941**

4. The amount of groundwater claimed (in miner's inches or gallons per minute): **5 BAR. 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: **W.P.R.S.**

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: **JULY 15, 1961 - JULY 25, 1961**

8. The depth of water table: **88 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: **525-70FT. 3/4 IN. STEEL PIPE**

10. The estimated amount of groundwater withdrawn each year: **2,580,000**

11. The log of formations encountered in the drilling of each well if available: **CLAY 64-521 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: **EARL SHORES**
   - **Date**: **DEC. 25 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.
**MONTANA BUREAU OF MINES AND GEOLOGY**

**WATER WELL LOG**

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Owner</strong></td>
<td>East Horse</td>
</tr>
<tr>
<td><strong>Driller</strong></td>
<td>Ray Horse</td>
</tr>
<tr>
<td><strong>Date Started</strong></td>
<td>July 13, 1961</td>
</tr>
<tr>
<td><strong>Location</strong></td>
<td>Sec. 11 T. 23 N. R. 31 E.</td>
</tr>
<tr>
<td><strong>Type of Well</strong></td>
<td>Drilled</td>
</tr>
<tr>
<td><strong>Water Use</strong></td>
<td>Stock</td>
</tr>
<tr>
<td><strong>Industrial</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Casing</strong></td>
<td>0 ft. to 225 ft.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>225 ft. to 906 ft.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Perforated or Screened</strong></td>
<td>520 to 900 ft.</td>
</tr>
<tr>
<td><strong>Static Water level, for non-flowing well</strong></td>
<td>88 feet</td>
</tr>
<tr>
<td><strong>Shut-in pressure, for flowing well</strong></td>
<td><strong>lb./sq. in.</strong></td>
</tr>
<tr>
<td><strong>Pumping water level</strong></td>
<td>30 feet at</td>
</tr>
<tr>
<td><strong>How tested</strong></td>
<td>Pumped</td>
</tr>
<tr>
<td><strong>Length of test</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Remarks</strong></td>
<td>(Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</td>
</tr>
<tr>
<td>Depth, feet</td>
<td>Description of Material Drilled</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>0 - 2</td>
<td>Top soil</td>
</tr>
<tr>
<td>2 - 15</td>
<td>Sandy clay</td>
</tr>
<tr>
<td>15 - 20</td>
<td>Sand</td>
</tr>
<tr>
<td>20 - 44</td>
<td>Brown shale</td>
</tr>
<tr>
<td>44 - 221</td>
<td>Pink sandstone</td>
</tr>
<tr>
<td>221 - 616</td>
<td>Judith River formation</td>
</tr>
<tr>
<td>616 - 618</td>
<td>Rock 30&quot;</td>
</tr>
<tr>
<td>618 - 620</td>
<td>Judith River formation</td>
</tr>
<tr>
<td>620 - 621</td>
<td>Rock 11&quot;</td>
</tr>
<tr>
<td>621 - 644</td>
<td>Judith River formation</td>
</tr>
<tr>
<td>644 - 646</td>
<td>Rock 27&quot;</td>
</tr>
<tr>
<td>646 - 681</td>
<td>Judith River formation</td>
</tr>
<tr>
<td>681 - 682</td>
<td>Rock 6&quot;</td>
</tr>
<tr>
<td>682 - 712</td>
<td>Judith River formation</td>
</tr>
<tr>
<td>712 - 740</td>
<td>Rock 77&quot;</td>
</tr>
<tr>
<td>740 - 807</td>
<td>Judith River formation</td>
</tr>
<tr>
<td>807 - 808</td>
<td>Rock 14&quot;</td>
</tr>
<tr>
<td>808 - 906</td>
<td>Judith River formation</td>
</tr>
</tbody>
</table>
Notice of Completion of Groundwater Appropriation by Means of Well
(under Chapter 237, Montana Session Laws, 1961)

Owner: Ray and Dan Shores
Address: Regina, Mont.

Driller: Ray and Dan Shores
Address: Regina, Mont.

Date of Notice of Appropriation of Groundwater: August 16, 1964
Date well started: September 5, 1964
Date well completed: September 5, 1964

Type of Well: Drilled
Equipment Used: Rotary

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

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

<table>
<thead>
<tr>
<th>Stratum</th>
<th>Weight of Strata</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>Depth of Water Encounter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rock 1&quot;</td>
<td></td>
<td>5'</td>
<td>6'</td>
<td>5'9&quot;</td>
</tr>
<tr>
<td>Shale</td>
<td></td>
<td>6'</td>
<td>7'</td>
<td>4'10 1/2&quot;</td>
</tr>
<tr>
<td>Rock</td>
<td></td>
<td>7'</td>
<td>8'</td>
<td>4'10 1/2&quot;</td>
</tr>
<tr>
<td>Shale</td>
<td></td>
<td>8'</td>
<td>9'</td>
<td>4'10 1/2&quot;</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 0.7 feet.
Shut-in Pressure for Flowing Well: 916 psi.
Pumping Water Level: 0.7 feet at 2.18 gal. per minute.
Discharge in gal. per min. of flowing well: 2.18 gal.
How Tested: Length of Test: 2.18 gal.

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)

Shutoff - Mason valves all joints welded together

Driller's License Number

Driller's Signature

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

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

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