STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Woodcock Land & Cattle Comp., of Chouteau, Montana (Name of Appropriator)
   (Address) (Town)

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: about 1900, continuous use since.

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 500 gal. per hour, or 8.1/3 gal. per minute.

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: pumping system, piped into house from well.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: old well was drying up and a new well was dug a few feet away in 1960 or thereabout. This well is about 80 ft. deep, water at about 16 feet.

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: There was an old well dug within a few feet of the new well in about 1900, it would not produce enough water therefore a new well was drilled. It has a drawdown about 10 feet and the rest of the well is cased and was drilled.

10. The estimated amount of groundwater withdrawn each year: approximately 20,000 gallons.

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

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

Signature of Owner: Woodcock Land & Cattle Comp.

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.
STATE OF MONTANA
COUNTY OF CHOTAUC

Filed at 11:00 a.m. by

County Clerk

By Deputy

Received paid
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: 1933

Owner: William R. A. Rudolph Lehman

Address: Shonkinia, Montana

Contractor (if any): none

Address of Contractor: 

Date Started: 1933 Date Completed: 1933

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Spring piped to tank for cattle.

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: 50 gal. tank for stockwater 1 gal. gallons per minute claimed

Signature of Owner: William R. Lehman

Date: December 31, 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 Appropirator.
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater...1933
Owner......William R. & Rudolph Lehman
Address......Shonkin, Montana
Contractor (if any)......none
Address of Contractor

Date Started......1933......Date Completed......1933

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes." Include depth to water or spring, cleaned out spring and piped.

An...........

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.

stockwater = 75 gallons tank

3/4 gallons per minute claimed

Signature of Owner......William R. Lehman
Date......21st day of March, 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.
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Law, 1961)

Date of Appropriation of Groundwater: 1936

Owner: XXXX Miles Swan, XXXX

Address: Highwood, Montana

Contractor (if any): None

Address of Contractor:

Date Started: Date Completed:

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

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 gallons per minute

Signature of Owner:

Date: 12-30-63

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

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the School of Mines and quadruplicate for the Appropriator.
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: 1962
Owner: Jack R. Bateman
Address: Goshen, Montana
Contractor (if any): Home
Address of Contractor:
Date Started: 1962 Date Completed: 1962
Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Catch basin, rock lined.

[Diagram of catch basin with dimensions]

3' deep, 3' square, 1" plastic pipe to 420 gallon 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 3 quarts per minute, continuous flow used, one all year round basis generally, supplemental stockwater.

Signature of Owner: Jack R. Bateman
Date: 30 December 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.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER
STATE ENGINEER

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

1. Jack E. Bateman, of Fort Benton
   (Name of Appropriator) (Address) (Town)

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been...1933, continuously used...thereafter...

4. The amount of groundwater claimed (in miner’s inches or gallons per minute) ...200 miner’s inches...

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...

   KRESNA, et al., vs., BEGNA,...Sec. 31, T.21N., R.9E...
   Claimant.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal...This is a subirrigated meadow area...

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater...1893...

8. The depth of water table...3 to 4 feet...

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater...This is a subirrigated meadow utilizing underground water combined with oolot flow...

10. The estimated amount of groundwater withdrawn each year...5,000,000 gallons...
11. The log of formations encountered in the drilling of each well if available...not available...

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

Signature of Owner: Jack E. Bateman
Date: 30 December 1963

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

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

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

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

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

1. Jack E. Batemans, of Fort Benton
   (Name of Appropriator)
   (Address)
   (Town)
   (County)
   (State)
   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: Continuously used since 1920.

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

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

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

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

8. The depth of water table: 4 ft. below bottom of course

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: 3 ft. galvanized metal well, 1½ inch pipe

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

11. The log of formations encountered in the drilling of each well if available: not available

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record: This is a developed spring. Flow was collected and utilized.

Signature of Owner: Jack E. Batemans
Date: 30 December 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)

1. Jack Bateman
   (Name of Appropriator)
   (Address)
   (Town)
   County of Chouteau
   State of Montana
   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

   2. The beneficial use on which the claim is based: Domestic, Household, Irrigation, stockwater

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

   4. The amount of groundwater claimed (in miner’s inches or gallons per minute): 7 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: 1/4 acre adjoining well, claimant is owner.

   6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: Electric jet pump with 1½ inch inlet and 1 inch outlet

   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: Ten feet. (NOTE: 7 feet is basement in house.)

   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:
      1½ inch inlet, 1 inch outlet, electric jet pump

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

   11. The log of formations encountered in the drilling of each well if available: not available

   12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record: Well is 6 ft. deep below basement, floor of residence.

   Signature of Owner: Jack Bateman
   Date: 30 December 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.
## Groundwater Index

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NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Since 1894, used by Kingsbury & Leply

Date of Appropriation of Groundwater...

Owner: M.J. Murphy and Jean C. Murphy, his wife.

Address: Geraldine, Montana

Contractor (if any): None

Address of Contractor:

Date Started... Date Completed...

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

Subirrigation and other natural process; water from 1 to 3 feet below surface, running diagonally across the described sections in varying widths...

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...

500 miners' inches estimated used from April 1 through October 1 of each year...

Signature of Owner...

Date...

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

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater
Owner:
Address:
Contractor (if any):
Address of Contractor:
Date Started: 1938
Date Completed: 1938

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

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

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

Signature of Owner:
Date: Dec 13, 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.
I certify that the above is a true and correct copy of the original record submitted.

[Signature]

[Date]
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater

Owner

Address

Contractor (if any)

Address of Contractor

Date Started

Date Completed

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

by hand 5 ft deep

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.

Timed 2 1/2 full min.

Signature of Owner

Date

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

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the School of Mines and quadruplicate for the Appropriator.
STATE WATER CONSERVATION BOARD

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Date of Appropriation of Groundwater: 1894

Kingsbury & Murphy

Owner: Jean C. Murphy
Address: Geraldine, Montana

Contractor: None

Address of Contractor:

Date Started: 1894
Date Completed: 1894

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Springs surfacing by natural process in Sec. 19 & 30, T 21 N, R 10 E, flowing easterly from the spring area.

Known as Lepley Creek; water is from 1 to 3 feet underground, surfacing at lower elevations.

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.

500 miners' inches from April 1 through October 1 of any given year.

Signature of Owner:

Date: November 20, 1965

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

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology and quadruplicate for the Appropriator.
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: 1894
Owner: M. J. Murphy and Jean C. Murphy, his wife
Address: Geraldine, Montana
Contractor (if any): None
Address of Contractor:
Date Started: 1894
Date Completed: 1894

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Springs surface on ground by natural process, forming creek known as "Willow Creek". Water is lift. to 3ft. below surface in area, surfacing at various points.

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 — 500 miners inches from April 1 to October 1 of each and every year, with 250 miners inches from Oct. 1 through April 1 of each and every year.

Signature of Owner:
Date: November 20, 1965

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 Appraiser.
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: Dec 27, 1963
Owner: Woodcock Land and Cattle Comp.
Address: Showell, Montana
Contractor (if any): Did own work
Address of Contractor: Not Applicable
Date Started: About 1940
Date Completed: About 1940

Describe means of obtaining groundwater without a well “as by sub-irrigation and other natural processes”. Include depth to water when applicable. The spring was dug out,
cased and piped with a 1/2 inch pipe to
a cement trough about 8'x6'x5' deep.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate length of periods of use...used 12 months of year; This water is used
for livestock. Quantity is approximately 4 gal a Min.


Signature of (Owner) Woodcock Land and Cattle Comp.
Date: Dec 27, 1963

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

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: Dec. 27, 1962

Owner: Woodcock Land and Cattle Co.

Address: Show Low, Montana

Contractor (if any): Did own work

Address of Contractor: Not applicable

Date Started: About

Date Completed: About

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. This spring was dug out to some extent to increase the flow for stock to water by. This is also the head of a small flow of water that flows down the "dolleh"

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. Used the entire year for the use of livestock.

Quantity is estimated at four gal a min.

Signature of Owner: Woodcock Land and Cattle Co.

Date: June 27, 1963

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

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Tripliicate to the School of Mines and Quadruplicate for the Appropriator.
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<td>Clyde E. Conley</td>
<td>Geo4</td>
<td>346240</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>Clyde E. Conley</td>
<td>Geo4</td>
<td>1958</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>Clyde E. Conley</td>
<td>Geo4</td>
<td>1958</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>Clyde E. Conley</td>
<td>Geo4</td>
<td>1958</td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>George M. Smith</td>
<td>Geo4</td>
<td>346946</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>State of Montana</td>
<td>Geo3</td>
<td>208823</td>
<td></td>
</tr>
</tbody>
</table>
#1

**MONTANA BUREAU OF MINES AND GEOLOGY**

**WATER WELL LOG**

**County:** Chouteau

**Location:** Sec 1 T. 21 N. R. 11E. NW 1/4 of the SE 1/4

**Type of well:** Drilled

**Equipment used:** Rotary

**Date Started:** March 13, 1959

**Date Completed:** March 24, 1959

**Owner:** Geraldine, City

**Address:** Geraldine, Mont

**Well Driller:** O.C. Thatcher

**Address:** Stanford, Mont

**Type of screen or perforations:** 16 ft. of pipe with perforations and welded joints as liner

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

**Shut-in pressure, for flowing well:** 120 lb./sq. in. on: March 28, 1959 (date)

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

**How tested:**

**Length of test:**

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

**Pipe cemented in and a flow of 27 1/2 gal. per min.**
<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>55</td>
<td>Yellow clay overburden</td>
</tr>
<tr>
<td>55</td>
<td>115</td>
<td>Blue Shale</td>
</tr>
<tr>
<td>115</td>
<td>117</td>
<td>Bentonite</td>
</tr>
<tr>
<td>117</td>
<td>170</td>
<td>Blue Shale</td>
</tr>
<tr>
<td>170</td>
<td>216</td>
<td>Blue Sandy Shale</td>
</tr>
<tr>
<td>216</td>
<td>218</td>
<td>Sandstone</td>
</tr>
<tr>
<td>218</td>
<td>219</td>
<td>Blue shale with layers of sandstone</td>
</tr>
<tr>
<td>219</td>
<td>513</td>
<td>Blue Shale</td>
</tr>
<tr>
<td>513</td>
<td>567</td>
<td>Blue sandy shale</td>
</tr>
<tr>
<td>567</td>
<td>765</td>
<td>Soft blue shale</td>
</tr>
<tr>
<td>765</td>
<td>842</td>
<td>Very hard limy blue shale with sandstone layers</td>
</tr>
<tr>
<td>842</td>
<td>904</td>
<td>Black shale with layers of hard sandstone and bentonite</td>
</tr>
<tr>
<td>904</td>
<td>911</td>
<td>Sandstone</td>
</tr>
<tr>
<td>911</td>
<td>950</td>
<td>Black shale with layers of sandstone</td>
</tr>
<tr>
<td>950</td>
<td>985</td>
<td>Blue Shale</td>
</tr>
<tr>
<td>985</td>
<td>992</td>
<td>Hard sandstone</td>
</tr>
<tr>
<td>992</td>
<td>1019</td>
<td>Layers of hard and medium soft sandstone</td>
</tr>
<tr>
<td>1019</td>
<td>1070</td>
<td>Blue shale</td>
</tr>
<tr>
<td>1070</td>
<td>1073</td>
<td>Sandstone</td>
</tr>
<tr>
<td>1073</td>
<td>1145</td>
<td>Blue Shale</td>
</tr>
<tr>
<td>1145</td>
<td>1255</td>
<td>Blue sandy shale with layers of sandstone</td>
</tr>
<tr>
<td>1255</td>
<td>1307</td>
<td>Blue Shale</td>
</tr>
<tr>
<td>1307</td>
<td>1397</td>
<td>Sandy blue shale</td>
</tr>
<tr>
<td>1397</td>
<td>1478</td>
<td>Grey Shale</td>
</tr>
<tr>
<td>1478</td>
<td>1485</td>
<td>Grey Shale</td>
</tr>
<tr>
<td>1485</td>
<td>1501</td>
<td>Green sandstone</td>
</tr>
<tr>
<td>1501</td>
<td>1545</td>
<td>Grey Shale</td>
</tr>
<tr>
<td>1545</td>
<td>1624</td>
<td>Red Shale</td>
</tr>
<tr>
<td>1624</td>
<td>1675</td>
<td>Medium hard sandstone with a few layers of hard sandy shales,</td>
</tr>
<tr>
<td></td>
<td>1675</td>
<td>Red sandy shale</td>
</tr>
<tr>
<td>1705</td>
<td>1707</td>
<td>Hard sandy shale</td>
</tr>
<tr>
<td>1707</td>
<td>1776</td>
<td>Medium hard sandstone</td>
</tr>
<tr>
<td>1776</td>
<td>1790</td>
<td>Hard sandstone</td>
</tr>
<tr>
<td>1790</td>
<td>1840</td>
<td>Soft to medium soft sandstone</td>
</tr>
<tr>
<td>1840</td>
<td>1855</td>
<td>Very soft coarse sandstone</td>
</tr>
<tr>
<td>1855</td>
<td>1857</td>
<td>Hard limy shale</td>
</tr>
</tbody>
</table>
# WATER WELL LOG

| Location: Sec. 1 T. 21 N R. 11 E Sec. 1 |
| Owner: Geraldine, City | Address: Geraldine, Mont. |
| Driller: O.C. Thatcher | Address: Standford, Mont. |
| Date Started: Nov. 19, 1959 | Date Completed: Jan. 1, 1960 |

**Type of well Drilled**  
(Deep, screened, bored, or drilled)

**Equipment used**  
(Churn drill, rotary, other)

**Water use**  
Domestic [ ]  Municipal [X]  Stock [ ]  Irrigation [ ]  Industrial [ ]  Drainage [ ]  Other [ ]

**Casing:**  
- 0 ft. to 1756 ft. Type: Galvanized  Size: 4 1/2 " O.D.
- 1746 ft. to 1872 ft. Type: Black  Size: 3"

**Perforated or Screened:**  
- 1746 ft. to 1872 ft. Type:  Size: 

**Type of screen or perforations:** Black Pipe Slot Perforations

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

**Shut-in pressure, for flowing well:** 140 lb./sq. in. on: Jan. 10, 1960 (date)

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

**How tested:**

**Length of test:**

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

Well Drilled to 2217 1/2 ft. Sulphur water at this Depth. Packer set at 1965 ft. cemented in with 90 sacks cement. Sulphur water shut off leaving a flow of approx. 65 to 70 gal. a min. of good water.

(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>1051/2</td>
</tr>
<tr>
<td>105 12</td>
<td>110</td>
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<tr>
<td>110</td>
<td>120</td>
</tr>
<tr>
<td>120</td>
<td>220</td>
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<tr>
<td>220</td>
<td>450</td>
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<tr>
<td>450</td>
<td>513</td>
</tr>
<tr>
<td>513</td>
<td>565</td>
</tr>
<tr>
<td>565</td>
<td>632</td>
</tr>
<tr>
<td>632</td>
<td>697</td>
</tr>
<tr>
<td>697</td>
<td>737</td>
</tr>
<tr>
<td>737</td>
<td>750</td>
</tr>
<tr>
<td>750</td>
<td>820</td>
</tr>
<tr>
<td>820</td>
<td>922</td>
</tr>
<tr>
<td>922</td>
<td>940</td>
</tr>
<tr>
<td>940</td>
<td>1070</td>
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<tr>
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<td>1515</td>
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<td>1560</td>
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<td>1600</td>
</tr>
<tr>
<td>1600</td>
<td>1610</td>
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<td>1613</td>
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<td>2181</td>
</tr>
<tr>
<td>2181</td>
<td>217</td>
</tr>
<tr>
<td>217</td>
<td>217 1/2</td>
</tr>
</tbody>
</table>

Shale with gravel first 5 ft., then Yellow clay overburden
Grayish shale
Layers of barite and sandy shale
Blue sandy shale
Hard sandy shale
Hard sandstone
Blue shale
Hard sandstone and shale
Layers of taranite and sandy shale
Hard sandstone
Sandstone and layers of sandy shale
Sandy shale with layers of sandy shale
Layers of sandy shale and sandstone
Alternate hard sandstone and sandy shale
Sandy blue shale
Sandy shale with layers of sandstone
Soft sandy shale and sandstone
Hard sandstone
Red sandstone
Gray sandstone
Hard sandstone and sandy shale
Hard sandstone
Sandy blue shale
Gray and red shale
Sandy shale and sandstone
Red sandstone and sandstone
Black red shale with 66 gal. per ton
Soft sandstone
Soft sandstone
Hard sandstone
Hard sandstone
Hard sandstone
Sandy sandstone and small amount of sand
Hard sandstone
Hard sandstone
Sandy sandstone
Approx. 26 gal. per ton. Sulfur water
Owner: Geraldine, City: Geraldine, Mont.
Driller: O.C. Thatcher, Address: Stanford, Mont.

Date Started: March 26, 1959, Date Completed: April 10, 1959

Location: Sec. 1, T. 21 N. R. 11 E, by sec. NW 1/4 of the SW 1/4

Type of Well: Drilled
Equipment used: Rotary

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

Casing: 0 ft. to 1908 ft. Type: Galvanized, Size: 2"
Casing: __________ ft. to __________ ft. Type: __________ Size: __________
Casing: __________ ft. to __________ ft. Type: __________ Size: __________

Perforated or Screened: Ft. __________ to Ft. __________, Ft. __________ to Ft. __________

Type of screen or perforations: Galvanized Pipe Slot Perforations

Static Water level, for non-flowing well: __________ feet.
Shut-in pressure, for flowing well: 120 lb./sq. in. on: May 1, 1959 (date)
Pumping water level: __________ feet at __________ gal. per min.
How tested: __________
Length of test: __________

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

Hole Cased with 1908' of 2' Gal. pipe, Cemented in Producing approx. 60 gal. per min. Free Flow.
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 36</td>
<td>Overburden and surface clay</td>
</tr>
<tr>
<td>36 - 44</td>
<td>Blue shale</td>
</tr>
<tr>
<td>44 - 142</td>
<td>Grey shale with some thin sand streaks</td>
</tr>
<tr>
<td>145 - 255</td>
<td>Grey to blue shale with some layers of hard black sixty sandstone and bentonite or talc</td>
</tr>
<tr>
<td>295 - 568</td>
<td>Grey shale</td>
</tr>
<tr>
<td>568 - 775</td>
<td>Layers of sandstone and shale</td>
</tr>
<tr>
<td>775 - 850</td>
<td>Hard sandy shale</td>
</tr>
<tr>
<td>850 - 885</td>
<td>Sandstone</td>
</tr>
<tr>
<td>885 - 910</td>
<td>Layers of soft shale and hard sandy shale</td>
</tr>
<tr>
<td>910 - 1040</td>
<td>Layers of hard shale and sandstone</td>
</tr>
<tr>
<td>1040 - 1130</td>
<td>Blue shale</td>
</tr>
<tr>
<td>1130 - 1210</td>
<td>Hard sandy shale with layers of sandstone</td>
</tr>
<tr>
<td>1210 - 1270</td>
<td>Sandstone</td>
</tr>
<tr>
<td>1270 - 1405</td>
<td>Sandy shale</td>
</tr>
<tr>
<td>1405 - 1460</td>
<td>Hard sandy shale</td>
</tr>
<tr>
<td>1460 - 1565</td>
<td>Sandy grey shale with layers of sandstone</td>
</tr>
<tr>
<td>1565 - 1600</td>
<td>Red shale</td>
</tr>
<tr>
<td>1600 - 1650</td>
<td>Sandstone</td>
</tr>
<tr>
<td>1650 - 1685</td>
<td>Red shale</td>
</tr>
<tr>
<td>1685 - 1705</td>
<td>Hard sandstone</td>
</tr>
<tr>
<td>1705 - 1720</td>
<td>Shale</td>
</tr>
<tr>
<td>1720 - 1734</td>
<td>Layers of hard sandstone and shale</td>
</tr>
<tr>
<td>1734 - 1815</td>
<td>Hard sandstone</td>
</tr>
<tr>
<td>1815 - 1860</td>
<td>Shale</td>
</tr>
<tr>
<td>1860 - 1878</td>
<td>Very hard sandstone</td>
</tr>
<tr>
<td>1878 - 1901</td>
<td>Soft coarse sandstone (water)</td>
</tr>
<tr>
<td>1901 - 1905</td>
<td>Hard sandstone</td>
</tr>
</tbody>
</table>
DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

1. John M. Stoes
   (Name of Appropriator)
   of
   Geraldine
   (Address)
   (Town)

County of Chouteau
   State of Montana

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

2. The beneficial use on which the claim is based
   Stock and residence water

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

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

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
   1948

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
   68 inch, galvanized steel, 30 feet deep
   $24 horse power electric pump

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

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

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

Signature of Owner

Date

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

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

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

John M. Stone

to

The Public

STATE OF MINNESOTA, T'ax.
COUNTY OF COWLEICHD.

Filed Nov. 29, 1963

at 2:45 P.M.

George W. Moore

County C.C.

By

Fee $2.00 Paid
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater...September 6, 1918
Owner............ Town of Geraldine
Address............ Geraldine, Chouteau County, Montana
Contractor (if any)......None
Address of Contractor......None
Date Started...........None Date Completed......None

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Groundwater from flowing springs

Impounded in reservoir for distribution into a

Municipal Water System.

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. Full flow of the springs used by gravity from 1918 until

1938. Full flow not used continuously since
1938 - now pumped into standpipe, intermittantly.


Signature of Owner............ Clerk

Date............ December 30, 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.
**STATE OF MONTANA**  
**ADMINISTRATOR OF GROUNDWATER CODE**  
**OFFICE OF STATE ENGINEER**

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

1. **Name of Appropriator**  
   **Address**  
   **Town**

2. **County of**  
   **State of**

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

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

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

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

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

8. The depth of water table

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

10. The estimated amount of groundwater withdrawn each year

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

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

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

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

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

---

### Diagram

```
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
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+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
```

### Notes

- **County of Geraldine**
- **State of Montana**
- **Month/Year: January 7**
- **Signature of Owner**
- **Date: December 30, 1963**
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

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

2. The beneficial use on which the claim is based is Municipal water well to supplement present municipal water system.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been May, 1963 — used continuously through summer, otherwise intermittently.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 80 gallons per minute while being pumped.

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 Used extensively for summer irrigation within city limits of Geraldine.

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

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

8. The depth of water table 300 feet.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Drilled to 300 feet. Cased to 300 feet with 7 inch and 8 inch casing.

10. The estimated amount of groundwater withdrawn each year 2,000,000 gallons for 1963.

11. The log of formations encountered in the drilling of each well if available Complete log available, but present elsewhere unknown.

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 known.

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

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

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

2618
STATE OF MONTANA
ADMINISTRATION OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER
DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

1. Noah G. Davis
   of Geraldine, Mont.
   (Name of Appropriator)
   (Address) (Town)
   County of Chouteau, State of Montana

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1919 - CONTINUES SINCE THAT TIME

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 100' OF WATER - IN ft. Casing

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:
   2 Acres of land: Sec 3, T21 N
   Noah G. Davis

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

7. The date of commencement and completion of the 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:
   1/4 Horse Tape Electric Deep Well Pump: 150 ft. in the well

10. The estimated amount of groundwater withdrawn each year:

11. The log of formations encountered in the drilling of each well if available:
   80' - Poor soil
   67' - Granite
   3' - Sand and gravel

12. Such other information of a similar nature as may be useful in carrying on 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; Tripllicate to the School of Mines and Quadruplicate for the Appropriator.
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: September 1, 1933
Owner: Noah C. Davis
Address: Geraldine, Montana
Contractor (if any): none
Address of Contractor: n/a

Date Started: Sept. 1, 1933; Date Completed: September 1, 1933

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

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

10 gallons per minute, estimated flow, continuous use

Signature of Owner: [signature]
Date: 12/31/43

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

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

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

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

COUNTY OF CHOUTEAU

I, in the presence of the subscriber, do solemnly swear or affirm that I am the person described in and who executed the within instrument, and that I executed it under the penalty prescribed by law.

STATE OF INDIANA
COUNTY OF CHOUTEAU

This 30th day of July, 1979

[Signature]

(Seal)

[Signature]

[Date]
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: 1960
Owner: Charles F. Stoops
Address: Geraldine, Montana
Contractor (if any): LeRoy Olson
Address of Contractor: Geraldine, Montana
Date Started: 1960
Date Completed: 1960

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable: Gravity flow; 6 feet

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:

2 gallons per minute, continuous use measured with a gallon container.

Signature of Owner: Charles F. Stoops
Date: Nov. 24, 1960

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.
Groundwater Rights

Charles P. Stooa

To

The Public

STATE OF MONTANA

COUNTY OF CHOUTEAU

Filed: Nov 29, 1965
at 2:45 o'clock P.M.

George W. Mass
County Clerk

By: Deputy.

Fee 1.200 Paid
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: N/A
Owner: Charles Hobart Bell
Address: Geraldine, Montana
Contractor (if any): Roy Olson
Address of Contractor: Geraldine, Montana
Date Started: May 20, 1961
Date Completed: May 30, 1961

Describe means of obtaining groundwater without a well “as by sub-irrigation and other natural processes”. Indicate depth to water when applicable. "Cleaned out spring and then piped it to stock water tanks lower elevation."

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. "I water up to 100 head cattle daily and many times that amount of water flows on to irrigate a small area."

Signature of Owner: Charles Hobart Bell
Date: November 20, 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.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER COMMISSION
OFFICE OF STATE ENGINEER

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: NOVEMBER 1960
Owner: R. F. JUERGENS
Address: GERALDINA, MONTANA
Contractor (if any): Homer Payne
Address of Contractor: GERALDINA, MONTANA
Date Started: OCTOBER 1960
Date Completed: NOV 1960

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. WATER OBTAINED BY:

SUB-IRRIGATION AND OTHER NATURAL PROCESSES

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.

ESTIMATED PIPELINE FLOW, SPRING IS IN CONSTANT USE

Signature of Owner:

Date: DEC 30, 1960

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.
NOTICE OF COMPLETION OF GEOLOGICAL EXPLORATION WORK

(Notice of Completion of Geological Exploration Work)

Date: [Blank]

Location: [Blank]

Geological Explorations:

- [Blank]
- [Blank]
- [Blank]

Total Costs:

- [Blank]

Signed by: [Blank]

State of Montana, County of [Blank]

File No. [Blank]

[Stamp or Signature]

[Date: DEC 30 1968]

[Name]

[Position]

[Stamp or Signature]

[Date: [Blank] 1968]
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. From Mary L. Kelly, of 470 Headman
(Name of Appropriator)           (Address)
(Town)
County of Montana 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 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: Mary L. Kelly
Date: Jan 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 School of Mines and quadruplicate for the Appropriator.
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater

Owner

Address

Contractor (if any)

Address of Contractor

Date Started

Date Completed

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Specify maximum flow.

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

Signature of Owner

Date