STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Owner

Driller

Date of Notice of Appropriation of Groundwater

Date well started

Date Completed

Type of well

Equipment Used

Water Use: Domestic (X) Municipal ( ) Stock ( ) Irrigation ( )

Industrial ( ) Drainage ( ) Other ( )

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

<table>
<thead>
<tr>
<th>Size of Pumping Rate</th>
<th>Max and Weight of Pumping</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</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

How Tested

Length of Test

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

Show exact depth of bottom

Doc. No.

Filed for record

19th day of December

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 School of Mines and Quadruplicate for the Appropriator.

58645
Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: Dec. 30, 1963
Owner: J.M. Spurlock
Address: R1 Hamilton, Mont.
Contractor (if any): None
Address of Contractor: None
Date Started: Dec. 20, 1963
Date Completed: Dec. 30, 1963

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

Springs - seepage - runoff
8 to 10 in. in drain ditch

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.

80 to 100 in., estimate of flow
Water rises in warm seasons
Flows 5 to 6 months

Signature of Owner: J.M. Spurlock
Date: Dec. 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 Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Date of Appropriation of Groundwater... Dec 30, 1963
Owner... J. M. Spurlock Address... 811 Hamilton St
Contractor (if any)... None
Address of Contractor... None
Date Started... Dec 30, 1963 Date Completed... Dec 30, 1963

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

Springs, seepage, runoff
8-10 in. in drain ditch

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.

80 to 100 in. estimated of flow
Water rises in warm season
Flow 5 to 6 months

Signature of Owner... J. M. Spurlock
Date... Dec 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 Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.
I certify that I received and filed this instrument on the 30th day of October, 1937, at 4:11 P.M. 

7 H. Moore
County Recorder

By... Shirley Keith
Deputy
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)

Contractor (if any): None
Address of Contractor: None
Date Started: Dec. 30, 1963 Date Completed: Dec. 30, 1963

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

Springs - seepage - runoff
8 to 10 in. in drain ditch

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.

85 to 100 in. estimate of flow
Water rises in warm season
Flow 5 to 6 months

Signature of Owner: J. M. Spurlock
Date: Dec. 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 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: Dec. 30, 1963
Owner: J. A. Spurlock  Address: 47 Hamilton, Mont.
Contractor (if any)  Name
Address of Contractor:  Home
Date Started: Dec. 20, 1963  Date Completed: Dec. 30, 1963

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

- Spring  Seepage
- Constant flow  9-14 in. low flow
- 8 to 14 in. High level

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:

- Flow varies from 30 in. to 100 in.  Estimate: Used for agricultural and domestic purposes.

Signature of Owner: J. A. Spurlock
Date: Dec. 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 Montana Bureau of Mines and Geology and quadruplicate for the Appropriator.
I hereby certify that I received and filed this
Assignment on the 30th day of December, 1943.

[Signature]

[Signature]
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Earnest S. Simmons, of Rt. 1, Box 264, Hamilton, have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

2. The beneficial use on which the claim is based: domestic, stock irrigation and other beneficial uses.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: well, 1930, continuous; spring, before 1900, continuous.

4. The amount of groundwater claimed (in miner's inches or gallons per minute): well, 10 gallons per minute; spring, 10 inches 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 acres, West 20 rods S 1/2 rods of Lot 2, Sec. 28, T. 21 N., Range 21 W.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: well, electric pump; spring, surface flow.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: well, 1930.

8. The depth of water table: about 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: 15 feet deep, driven point 13 inches in pipe.

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

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

Signature of Owner: Earnest Simmons
Date: Dec. 31, 1961

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located. Please answer all questions. If not applicable, so state; otherwise the form will be returned. Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
I certify that I received and filed this
This day of ___________ 19__.

F. W. Moore

[Signature]

Shelby Keith

[Signature]
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Scriptie Schallenger
   (Name of Appropriator)
   of Sec-1-Bo-27-3
   (Address)
   (Town)

   County of
   (County)
   State of
   (State)

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

   2. The beneficial use on which the claim is based. 
      [Description]

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

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

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

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

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

   8. The depth of water table. 
      [Depth]

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

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

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

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

   Signature of Owner: 
   [Signature]

   Date: 
   [Date]

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
I certify that I received and filed this instrument on the 23rd day of December, at 3:15 o'clock P.M.

[Signature]

County Recorder

[Signature]

Deputy
Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: Sept 16, 1963
Owner: Francis Stelter, Address: Hamilton
Contractor (if any): Kenneth Gardner, Address: Hamilton
Date Started: Sept 15, Date Completed: Sept 16, 1963

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.

One Thousand Gallons
per minute from May 1st to Oct 1st

Signature of Owner: Francis Stelter
Date: Dec 16, 1963

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

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology and quadruplicate for the Appropriator.
I certify that I received and filed this instrument on this 16th day of 1963, at 2:13 P.M.

F. A. Moore
COUNTY RECORDER

By: __________________________
DEPUTY
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

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

1. Name of Appropriator: George Albert
   Address: (Address)
   Town: (Town)

2. The beneficial use on which the claim is based:
   (Beneficial Use Details)

3. Date or approximate date of earliest beneficial use; and how continuous the use has been:
   (Date and Continuity Details)

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

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:
   (Irrigation Details)

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

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

8. The depth of water table:
   (Depth Details)

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

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

11. The log of formations encountered in the drilling of each well if available:
    (Formation Log)

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

Signature of Owner: [Signature]
Date: [Date]

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the School of Mines and quadruplicate for the Appropriator.
I certify that I received and filed this instrument on this 17th day of June, 1963, at 3:00 o'clock P. M.

F. J. Moore
COUNTY RECORDS

Repl.
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

Owner: George Yule
Address: Box 186, Darby

Contractor (if any): None
Address of Contractor: 

Date Started: Oct 1960  Date Completed: Oct 1960

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

Pipes to tank, for stock water

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.

The year around

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

Signature of Owner: Roy Yule
Date: Dec 17, 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 Montana Bureau of Mines and Geology and quadruplicate for the Appropriator.
I certify that I received and filed this instrument on this 17th day of Dec., 1963, at 1:40 P.M.

F. L. Moore
COUNTY RECORDER

By DEPUTY
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montan Session Laws, 1961)

Vera Brown or Richard D. Brown, of Route 1 Box 203, Havilton,
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

2. The beneficial use on which the claim is based: Household, garden, lawn & cattle

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 20 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: Ward's Cove, Lots 10 & 11 Block 1.

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: 45 feet

9. So far as it may be available, the type, size, and depth of each well or the general specifications of any other works for the withdrawal of groundwater: Drilled well with 4-inch casing.

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

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

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

Signature of Owner: Vera Brown
Date: Dec 29, 1965
I certify that I received and filed this instrument on the 29th day of Dec., 19__ at 10:00 o'clock A.M.

F. L. Moore
COUNTY RECORDER

Fee $2.00
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Tony C and Bessie C, of Hamilton

County of

State of

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

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

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

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: Tony C Barth

Date: Dec 30 - 63

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
I certify that I examined and copied this
will on the 20th

Alfred J. H. 63 2 16

7. H. Moore

Shirley Keith

#2630
**Notice of Completion of Groundwater Appropriation by Means of Well**

**DEVELOPED AFTER JANUARY 1, 1962**

(Over Chapter 237, Montana Session Laws, 1961)

---

**Owner:** HELEN CARRIthers

**Address:** HAMILTON, MONTANA

**Driller:** W. W. WILLIAMS

**Well Drilled:** 470, 50th St., Missoula, Montana

---

**Top of Ground**

(Elev. above sea level)

- 6' tan clay, sand & gravel
- 6' water, sand & gravel
- 8' water, sand & gravel
- 6' tan clay, sand, & gravel
- 6' water & gravel

---

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

- July 29, 68

**Date Well Started:**

- July 29, 68

**Date Completed:**

- July 30, 68

---

**Type of Well:**

- Drilled

**Equipment Used:**

- Churn

---

**Water Use:**

- Domestic
- Municipal
- Stock
- Irrigation
- Industrial
- Drainage
- Other

---

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

---

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot; I.D.</td>
<td>6-5/8&quot; ground</td>
<td>O.D. level 33'6&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>17 lbs.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1&quot; side wall</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Static Water Level for non-flowing well**

- 3 feet

**Shut-in Pressure for Flowing Well**

- Pumping Water Level: 15 feet
- at: 60 gal. per minute
- Discharge in gal. per min. of flowing well

---

**In Lot 12 of**

**Block 1, Ward's Core**

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

---

**Use:** If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e., Lot, Block and Addition).

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

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**Length of Test:** 4 hours

---

**Driller's License Number:** 151

---

Driller's Signature:

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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.

---

**AUG 2 1968**

State of Montana

Administrator of Groundwater Code

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

County of . . . . . . . . . State of . . . . . . . . .

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

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

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

4. The amount of groundwater claimed (in miner’s inches or gallons per minute): 500 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 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 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:

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.

Signature of Owner: __________________________
Date: __________________________
I certify that I received and filed the
affidavits on file
day 1
Nov. 63 a 9121

F.L. Moore
Deputy Recorder

Shirley Keith
Deputy
**MONTANA BUREAU OF MINES AND GEOLOGY**

**WATER WELL LOG**

<table>
<thead>
<tr>
<th>Field</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner</td>
<td>Thomas A. or Waryl Lorentzen</td>
</tr>
<tr>
<td>Address</td>
<td>Hamilton, Montana</td>
</tr>
<tr>
<td>Driller</td>
<td>Vernon Roy</td>
</tr>
<tr>
<td>Address</td>
<td>Hamilton, Montana</td>
</tr>
<tr>
<td>Date Started</td>
<td>October 1946</td>
</tr>
<tr>
<td>Date Completed</td>
<td>November 1946</td>
</tr>
<tr>
<td>Lot 9 Block 6 Charles Heights Orchards</td>
<td></td>
</tr>
<tr>
<td>Location</td>
<td>Sec 10 T 11 R 4 S 11</td>
</tr>
<tr>
<td>Type of well</td>
<td>Drilled</td>
</tr>
<tr>
<td>Equipment used</td>
<td>Drill</td>
</tr>
<tr>
<td>Water use</td>
<td>Domestic X, Stock X, Irrigation X</td>
</tr>
<tr>
<td>Casing</td>
<td>52 ft. to 152 ft.</td>
</tr>
<tr>
<td>Type</td>
<td>Steel</td>
</tr>
<tr>
<td>Size</td>
<td>4 1/2 inch</td>
</tr>
<tr>
<td>Perforated or Screened</td>
<td>2 ft. to 20 ft.</td>
</tr>
<tr>
<td>Type of screen or perforations</td>
<td></td>
</tr>
<tr>
<td>Static Water level, for non-flowing well:</td>
<td>7 ft. from surface</td>
</tr>
<tr>
<td>Shut-in pressure, for flowing well:</td>
<td>lb./sq. in. (date)</td>
</tr>
<tr>
<td>Pumping water level:</td>
<td>feet at gal. per min. (date)</td>
</tr>
<tr>
<td>How tested</td>
<td>Compressor - 1 1/4 in. pipe, for 1 hour at 100 lbs. pressure, no change in level</td>
</tr>
<tr>
<td>Length of test</td>
<td></td>
</tr>
<tr>
<td>Remarks:</td>
<td>(Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</td>
</tr>
</tbody>
</table>

(over)
### Montana Bureau of Mines and Geology

#### Water Well Log

**Owner:** Thomas A. or Veryl Lorentzen  
**Address:** Hamilton, Montana

**Driller:** Norman Ray  
**Address:** Hamilton, Montana

**Date Started:** October, 1946  
**Date Completed:** November, 1946

**Location:** Lot 9 Block 6 Charles Heights Orchards, Sec. 7, T.47N, R.21W

<table>
<thead>
<tr>
<th>Type of well drilled</th>
<th>Equipment used</th>
<th>Casing:</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stock</td>
<td>drill</td>
<td>ft. to 52 ft.</td>
<td>steel</td>
<td>4 1/2 inch</td>
</tr>
</tbody>
</table>

- **Water use:** Domestic [X]  
- **Casing:** ft. to 52 ft.  
- **Shut-in pressure:** lb./sq. in. on:  
- **Pumping water level:** feet at gal. per min.

- **Type of screen or perforations:**  
- **Static Water level, for non-flowing well:** 7 feet from surface.

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

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

1. Floyd L. Pearse
   (Name of Appropriator) of
   Pitch 49, 30-161-30
   (Address) Hamilton
   (Town)
   County of
   Broadwater
   State of
   Montana

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

   2. The beneficial use on which the claim is based—
      Home, farm, and irrigation

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been
      Jan. 15, 1956
      12 months per year

   4. The amount of groundwater claimed (in miner's inches or gallons per minute)
      85 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
      Wards Cove 8.375 of W 13 1/4
      Floyd L. Pearse

   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
      Jan. 15, 1956

   8. The depth of water table
      48 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
      Drill: Maxx casing 63 feet

   10. The estimated amount of groundwater withdrawn each year
      2,682,000 gal

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

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

   Signature of Owner
   Floyd L. Pearse
   Date: Jan. 30, 1963

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology; and Quadruplicate for the Appropriator.
### Water Well Log

**Owner:** Jos. H. and Leona Shivel  
**Address:** Hamilton, Mont.

**Driller:** Norman Bay  
**Address:** Hamilton, Mont.

**Date Started:** October 1946  
**Date Completed:** 1946

**Location:** Sec. 5 T.  \( \frac{1}{2} \) R.  \( \frac{1}{4} \) sec., County: Ravalli

**Type of well:** Drilled  
**Equipment used:** Power Churn Drill

**Water use:** Domestic

**Casing:**
- **Type:** Black  
- **Size:** 5-in.

**Perforated or Screened:** None

**Static Water level, for non-flowing well:** 15 to 20 ft.

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

**Pumping water level:** 20 ft.

**How tested:** By use

**Length of test:** Continual

**Remarks:**
- Water is produced from flowing underground spring in small gravel beneath hard pan seal.
- (over)
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: December 28, 1963

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.

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

Signature of Owner __________ Date __________

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

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.
# 2587

I certify that I received and filed this

burial permit on the 30th

day of Dec., 1939, at 2:37

p.m.

J. T. Moore

Deputy Recorder

Thos. McVay

Deputy
I certify that I received and filed this instrument on the 5th day of September, 1863 at 2 o'clock P.M.

[Signature]
COUNTY RECORDER

[Signature]
DEPUTY RECORDER
**Declaration of Vested Groundwater Rights**

(Under Chapter 237, Montana Session Laws, 1961)

1. Robert Wilbur Spanner, of Belgrade, Montana

   (Name of Appropriator)  
   (Address)  
   (Town)

   County of ______ State of Montana

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

<table>
<thead>
<tr>
<th>N</th>
<th>S</th>
<th>W</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

   Household

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

   1946  
   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:

   Not applicable

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

   Drilled with capacitor

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

   1946

8. The depth of water table:

   7.0 ft

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

   Drilled with capacitor

10. The estimated amount of groundwater withdrawn each year:

    1,000 gallons

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

    Favorable

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 applicable

Signature of Owner: Robert Wilbur Spanner

Date: Dec. 2, 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.
I certify that I received and filed this instrument on this 30th day of November, 1836, at 3 o'clock P.M.

L. F. M'Kee
DEPUTY COUNTY RECORDER

J. H. A. Haggard
DEPUTY
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL
Developed after January 1, 1962

(Under Chapter 237 Montana Session Laws, 1961, as amended)

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, last copy to be retained by driller. Please answer all questions. If not applicable, so state, otherwise the form may be returned.

Owner: [Name]
Address: [Address]

Date well started: [Date]
Completed: [Date]

Type of well: [Type]
Equipment used: [Type]

Water Use: Domestic [ ] Municipal [ ] Stock [ ] Irrigation [ ]
Industrial [ ] Drainage [ ] Other [ ] Garden/Lawn [ ]

*Describe ____________________________

USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition).

ESTIMATED ANNUAL WITHDRAWAL

<table>
<thead>
<tr>
<th>Size of Deeded Hole</th>
<th>Size and Weight of Pipe</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
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</thead>
<tbody>
<tr>
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<th>W</th>
<th>R</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Static water level: __________ ft.
Pumping water level: __________ ft.
at __________ gallons per minute,
measured __________ minutes after pumping began.
*Measured from ground level,
Well developed by __________ for __________ hours.
Power: __________ HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

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

Driller's Signature: ____________________________
Driller's Address: ____________________________
LICENSE NO: ____________________________

Show exact depth of bottom ______ ft. 1/2

T. 4 S, R. 21 W
County: ____________________________

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.
I certify that I received and filed this instrument on the 9d day of September 10, 1931.

[Signature]

[Printed Name: E. H. Moore]

[Seal]

[Date: 9-10-31]
<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
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<td>1853</td>
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<td>&quot;</td>
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<td>1855</td>
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<td>&quot;</td>
<td>GW-3</td>
<td>1857</td>
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<td>31</td>
<td>Mirrison, John A.</td>
<td>GW-2</td>
<td>185329</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

Owner: A. J. Patterson
Address: Hamilton

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.

Box for Stock Water

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: A. J. Patterson
Date: 11/1/63

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

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana
Bureau of Mines and Geology and Quaduplicate for the Appropriator.
I certify that I received and filed this instrument on this 4th day of Nov., 1963, at 5 o'clock A.M.

F. D. M.
COUNTY RECORDER
By
Fee $2.00 Deputy
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
Owner
Address
Contractor (if any)
Address of Contractor
Date Started
Date Completed
Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable.

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

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

Signature of Owner

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 Montana Bureau of Mines and Geology and Quadruplicate for the Appropriaor.
I certify that I received and filed this instrument on this 8th day of _______ 19 69 at _______ a.m. or p.m.

[Signature]

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

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

STATE ENGINEER

1. AD Patterson
   (Name of Appropriator)
   of P.O. Box 130, Hamilton
   (Address) (Town)

   County of Ravalli, 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, Yard & Garden

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1750
   All Time

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 150 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. Yard & Garden
   A.D. Patterson

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 OCT. 1950 - OCT. 1950

8. The depth of water table 40 Dept. of Well 9.5'

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 6 in. Casing Deep Well

10. The estimated amount of groundwater withdrawn each year 25000

11. The log of formations encountered in the drilling of each well if available Tap Soil - large rock for soft. Muck, soft - s. sand, v.s. gravel

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

Signature of Owner AD Patterson
Date 10/4/62

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.
I certify that I received and filed this instrument on the 4th day of Nov., 19-- at 8:50 o'clock A. M.

[Signature]

COUNTY RECORDER

By [Signature]

Fee $2.00
Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: 1959

Owner: Max F. Henault
Address: Darby, 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. Open ditch from springs.

One spring developed by water trough.

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.

Water flow:

approx. 15 miner. inches is used for watering stock on range land. Approx. use of 6 months.

on range.

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

Signature of Owner: 
Date: 12/27/63

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 this form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.
I declare that I received and file this instrument on this...27...
day of...Dec., 19__...a.m.

P.M.

UILT MOORE
Liberty McDaid

Revett
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 237, Montana Session Laws, 1951)

Owner: John & Jane Doolin
Address: Hamilton, MT

Driller: Bill Johnson
Address: Hamilton, MT

Date of Notice of Appropriation of Groundwater: March 27, 1965
Date well started: March 14, 1965
Date well completed: March 27, 1965

Type of well: Churn drill (dug, driven, bored or other)
Equipment used: Churn drill

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, its depth and character of water-bearing strata and height to which the water rises in the well.

<table>
<thead>
<tr>
<th>Depth of Drilled</th>
<th>Size and Weight of (Churn)</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 in</td>
<td>10.79 ft</td>
<td>0</td>
<td>32</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 15 feet.
Shut-in Pressure for Flowing Well.
Pumping Water Level: 17 feet at 10 gal. per minute.
Discharge in gal., per min. of flowing well: 20 gal.
How Tested: Below
Length of Test: 30

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)

33
Driller's License Number: 33
Driller's Signature: Bill Johnson

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.
<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
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<td>7</td>
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</table>
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Date of Appropriation of Groundwater: Oct. 30, 1962
Owner: William I. Saunders
Address: Hamilton, Mont.
Contractor (if any): 
Address of Contractor: 
Date Started: Date Completed: 

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

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

Signature of Owner: William I. Saunders
Date: Dec. 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 Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.
I certify that I received and filed this instrument on this 23rd day of Dec., 1963, at 9:00 o'clock A.M.

A. M. Moore
County Recorder

By: Deputy
<table>
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<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
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Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

Name of Appropriator: William H. Mitchell
Address: Hardy, Montana
County: Ravalli
State of Montana

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

1. Name of Appropriator
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: 1963
4. The amount of groundwater claimed (in miner's inches or gallons per minute): 25 gal per minute
5. If used for irrigation, the acreage and description of the lands to which water has been applied and name of the owner thereof: 10 acres located in Sec. 2, T. 2 N., R. 21
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: Using pumps on two wells
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Jan 16 - 1963 to March 26 - 1963
8. The depth of water table: 15 ft deep
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: 1/2 inch casing 12 ft deep
10. The estimated amount of groundwater withdrawn each year: I don't know
11. The log of formations encountered in the drilling of each well if available: Not available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record: Not available

Signature of Owner: William H. Mitchell
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.