STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater
Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962
(Under Chapter 237, Montana Session Laws, 1961)

Owner: Dean E. Stacy  
Address: Box 670, Missoula, Montana

Type of well Drilled: C.O.D. Drilling
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, character and thickness 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 Drilling</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>Static Water Level for non-flowing well</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>6&quot; 1/2&quot;</td>
<td>1 1/2&quot;</td>
<td>96 1/2&quot;</td>
<td>6&quot; feet</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well 6" feet
Shut-in Pressure for Flowing Well: ----- feet
Pumping Water Level: 12" feet
Discharge in gal. per min. of flowing well: 40 gal. per minute.

How Tested: Boiler
Length of Test: 4 hr.
Remarks: (Gravel packing, cementing, packers, type of shut-off)  

Show exact depth of bottom.

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

Please answer all questions. If not applicable, so state, otherwise the form will be returned.
**Declaration of Vested Groundwater Rights**
(Under Chapter 237, Montana Session Laws, 1961)

1. **George Messenbr**
   (Name of Appropriator)

2. The beneficial use on which the claim is based: **Domestic and Irrigation**

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1924 — Continuous

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

5. If used for irrigation, give the area and description of the lands to which water has been applied and name of the owner thereof:
   - Lawn, yard and garden
   - Bessie House and dairy plant

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal:
   - 2 H.P. Electric motor and pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1926 commenced and completed

8. The depth of water table: 12 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: 6-in. casing — 10 feet deep

10. The estimated amount of groundwater withdrawn each year: 750,000 gallons annually

11. The log of formations encountered in the drilling of each well if available:
   - Gravel for 15 feet — 10 feet hard rock, then gravel remainder

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: December 31, 1963*

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

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

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

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

1. Marguerite L. Miller, of P.O. #2, Grass Valley, Missoula
   (Name of Appropriator)
   (Address) (Town)
   County of Missoula, State of Montana
   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1882, as follows:

   2. The beneficial use on which the claim is based
      Livestock water, irrigation and household

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been drilled 1954. Used daily since
      [Diagram: Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.]

   4. The amount of groundwater claimed (in miner's inches or gallons per minute) 1000 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
      25 acres Sec. 9, T13, R20
      [Diagram: Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.]

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

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
      [Diagram: Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.]

   8. The depth of water table

   9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
      Drilled well, 8-inch diameter, 125 feet deep. Pump is a jet type, pump electrically driven

   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 Appropriator

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.

1960
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

<table>
<thead>
<tr>
<th>Name of Appropriator</th>
<th>Address</th>
<th>Town</th>
</tr>
</thead>
<tbody>
<tr>
<td>Larry Styger</td>
<td>Montana</td>
<td></td>
</tr>
</tbody>
</table>

County of Montana State of Montana

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

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

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. 3-4-59

4. The amount of groundwater claimed (in miner's inches or gallons per minute). 75 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.

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. 3-6-57

8. The depth of water table. 50 ft.

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

10. The estimated amount of groundwater withdrawn each year.

11. The log of formations encountered in the drilling of each well if available. Clay 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: Larry Styger
Date: 1/30/63

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.
STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

NAME OF APPLICANT: Mercedes Steiger

ADDRESS: 103 Main St.

TOWN: Missoula

COUNTY: Missoula

STATE: Montana

I, Mercedes Steiger, do hereby declare that I have appropriated groundwater according to the Montana law in effect prior to January 1, 1962, as follows:

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

3. Date or approximate date of earliest beneficial use: 4-5-63

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 78 GALLONS

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: 180 ACRES

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 4-5-63

8. The depth of water table: 40 FEET

9. So far as may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: DRILL IN 30' PIPE 40 FEET

10. The estimated amount of groundwater withdrawn each year: UNKNOWN

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

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

Signature of Owner: Mercedes Steiger

Dated: December 30, 1963

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriate.
Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater

Owner/Agent/Registrar Address

Date Started

Date Completed

Contractor (if any)

Address of Contractor

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

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

Continuous Used

Cattle Water

Fish Pond

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 Montana Bureau of Mines and Geology and quadruplicate for the Appropriator.
I received and filed this instrument in record on the 11th day of July, 1909, in the office of the Clerk of the Circuit Court of the County of Alameda, State of California.

[Signature]

[Stamp]

[Notary's seal]
STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

NAME OF APPROPRIATOR

COUNTY OF MISSOULA

STATE OF MONTANA

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

1. The beneficial use on which the claim is based: CATTLE HOUSEHOLD IRRIGATION

2. Date or approximate date of earliest beneficial use; and how continuous the use has been: ABOUT 1909

3. The amount of groundwater claimed (in inches or gallons per minute): 75 GALLONS PER MIN.

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

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

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

7. The depth of water table: 50 FEET

8. 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: DRIVEN 5" PIPE 50 FEET

9. The estimated amount of groundwater withdrawn each year: UNKNOWN

10. The log of formations encountered in the drilling of each well if available: BLACK SOIL CLAY, SAND

11. 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: Mercedes Stieger

Date: December 23, 1962

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropipator.
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. Arthur Druskavich
   County of: Missoula
   State of Montana
   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1923, as follows:

2. The beneficial use on which the claim is based: General Agricultural Use for and around dwelling.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: June 1, 1923, constant since December 1950.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 100 gal. per minute.

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof: Owner: Same as 1st line. Date: Not available.

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

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

8. The depth of water table: 60 ft.

9. So far as it may be available, the type, size and depth, of each well or the general specifications, of any other works for the withdrawal of groundwater: Capacity 1,000 gallons per day.

10. The estimated amount of groundwater withdrawn each year: 300,000 gal.

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

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record: No additional information.

Signature of Owner: Arthur Druskavich
Date: March 8, 1963

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

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

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

STATE Engineer

1. C. Elmer Flynn, of Route # 2, Missoula;
   (Name of Appropriator) (Address) (Town)

County of Missoula 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: Household and Stockwater

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1865

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 40 Gallons per Minute

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1965

8. The depth of water table: 50 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: 1 ½' Drilled well-1 Horse motor-2 ½ outlet

10. The estimated amount of groundwater withdrawn each year: Unknown

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: Unknown

Signature of Owner: C. Elmer Flynn

Date: Dec 26, 1965

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
<table>
<thead>
<tr>
<th>Field</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form No. 18</td>
<td></td>
</tr>
<tr>
<td>T. 13 R. 20</td>
<td></td>
</tr>
<tr>
<td>County</td>
<td>Montana</td>
</tr>
<tr>
<td>Owner</td>
<td>Cole, W.</td>
</tr>
<tr>
<td>Address</td>
<td></td>
</tr>
<tr>
<td>Driller</td>
<td>T. Hartley</td>
</tr>
<tr>
<td>Date Started</td>
<td>1876 June</td>
</tr>
<tr>
<td>Date Completed</td>
<td>1876 June</td>
</tr>
<tr>
<td>Location</td>
<td>Sec. 23 T. 13 R. 20 1/4 sec.</td>
</tr>
<tr>
<td>Type of well</td>
<td>Day</td>
</tr>
<tr>
<td>Equipment used</td>
<td>Pump, Hand, Bucket</td>
</tr>
<tr>
<td>Water use</td>
<td>Domestic ☑  Municipal ☐  Stock ☑  Irrigation ☑  Industrial ☐  Drainage ☐  Other ☐</td>
</tr>
<tr>
<td>Casing</td>
<td>ft. to ft.  Type Size</td>
</tr>
<tr>
<td>Casing</td>
<td>ft. to ft.  Type Size</td>
</tr>
<tr>
<td>Casing</td>
<td>ft. to ft.  Type Size</td>
</tr>
<tr>
<td>Perforated or Screened</td>
<td>Ft. to Ft.  Ft. to 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>Feet</td>
</tr>
<tr>
<td>Shut-in pressure, for flowing well</td>
<td>lb./sq. in. on: (gas)</td>
</tr>
<tr>
<td>Pumping water level</td>
<td>15 ft. feet at gal. per min.</td>
</tr>
<tr>
<td>How tested</td>
<td></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>
<tr>
<td>Well was dug</td>
<td>1876 June</td>
</tr>
<tr>
<td>(over)</td>
<td></td>
</tr>
<tr>
<td>Depth, feet</td>
<td>Description of Material Drilled</td>
</tr>
<tr>
<td>------------</td>
<td>---------------------------------</td>
</tr>
<tr>
<td>From 800 ft</td>
<td>To 820 ft</td>
</tr>
<tr>
<td></td>
<td>Sand and clay.</td>
</tr>
</tbody>
</table>

Log of Well
**WATER WELL LOG**

**STATE ENGINEER**

**MONTANA BUREAU OF MINES AND GEOLOGY**

**Butte, Montana**

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<table>
<thead>
<tr>
<th>Owner</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>R. W.</td>
<td>R. F. B.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Driller</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>R. W.</td>
<td>R. F. B.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date Started</th>
<th>Date Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 1952</td>
<td>July 1952</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Location: Sec.</th>
<th>T.</th>
<th>R.</th>
<th>Sec.</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>20</td>
<td>4</td>
<td>sec.</td>
</tr>
</tbody>
</table>

**Type of well**

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

**Equipment used**

- (Drill, motor, pump, etc.)

**Water use**

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

**Casing**

- Unlined ft. to ft.
- Type
- Size

**Perforated or Screened**

- Ft. to ft.
- Ft. to ft.

**Type of screen or perforations**

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

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

<table>
<thead>
<tr>
<th>Pumping water level</th>
<th>feet</th>
<th>gal. per min.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>How tested:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Length of test:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<tr>
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</tr>
</tbody>
</table>

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>From</th>
<th>To</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>107' Depth</td>
<td>5/8&quot; of clay</td>
<td>7' of gravel 945' fr.</td>
<td>sand and dark silt</td>
</tr>
<tr>
<td>Form No. 18</td>
<td>8-60</td>
<td></td>
<td></td>
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<tr>
<td>-------------</td>
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<td></td>
</tr>
<tr>
<td>T.</td>
<td>13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>R.</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>County</td>
<td>Missoula</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

STATE ENGINEER

Owner: [Name]
Address: [Address]

Driller: [Name]
Address: [Address]

Date Started: [Date]
Date Completed: [Date]


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

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

Casing: [Height] ft. to [Height] ft. Type [Type] Size [Size]

Casing: [Height] ft. to [Height] ft. Type [Type] Size [Size]

Casing: [Height] ft. to [Height] ft. Type [Type] Size [Size]

Perforated or Screened: Ft. [Start] to Ft. [End]. Ft. [Start] to Ft. [End].

Type of screen or perforations:

Static Water level, for non-flowing well: [Height] feet.

Shut-in pressure, for flowing well: [Pressure] lb./sq. in. on: [Date]

Pumping water level [Height] feet at [Rate] gal. per min.

How tested:

Length of test:

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

(over)
## Log of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 ft. Depth</td>
<td>5 ft. of clay, 7 ft. of gravel, 13 ft. of sand and silt soil</td>
</tr>
</tbody>
</table>
Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: Dec. 31, 1963

Owner: Calvin Violetta Address: R.F.D. #2

Contractor (if any): Frances Violetta Grandfather

Address of Contractor: R.F.D. #2 Missoula, Mont.

Date Started: 1963-07-01 Date Completed: 1963-08-31

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: Calvin Violetta

Date: Dec. 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 Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.
**Notice of Completion of Groundwater Appropriation by Means of Well**

**DEVELOPED AFTER JANUARY 1, 1902**
(Under Chapter 237, Montana Session Laws, 1961)

**Owner:** Carl Hubertson  
**Address:** Mullan Rd, Missoula

**Driller:** Harold E. Peterson  
**Address:** 3024 20th Ave, Missoula

**Date of Notice of appropriation of groundwater:** 5/1/35  
**Date completed:** 5/9/35

**Type of well:** Drilled  
**Equipment used:** Cable tool

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

**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>Strata</th>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Cable</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>Pumps</th>
<th>Kind</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>35 = 47 red clay</td>
<td>5 inch</td>
<td>5½ od</td>
<td>0</td>
<td>70</td>
<td>NONE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>47 = 65 sand &amp; water</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>65 = 70 gravel &amp; water</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Static Water Level for non-flowing well:** 80 ft. below top soil.
- **Shut-in Pressure for flowing well:** 45 gal. per minute.
- **Pumping Water Level:** 88 ft. above top soil.
- **Discharge in gal. per min. of flowing well:**

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

**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).**

---

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.

**Driller's License Number:** 44,752

**Driller's Signature:**

---

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

**DEVELOPED AFTER JANUARY 1, 1902**
(Under Chapter 237, Montana Session Laws, 1961)

**County Clerk and Recorder in the county in which the well is located.**

**File No.:**

**State of Montana**

**Administrator of Groundwater Code Office of State Engineer**

**Top of Ground**

**Elev. above sea level:**

**County:**

**9NOV 1898**

**State of Montana**

**Administrator of Groundwater Code Office of State Engineer**

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

**DEVELOPED AFTER JANUARY 1, 1902**
(Under Chapter 237, Montana Session Laws, 1961)

**Owner:** Carl Hubertson  
**Address:** Mullan Rd, Missoula

**Driller:** Harold E. Peterson  
**Address:** 3024 20th Ave, Missoula

**Date of Notice of appropriation of groundwater:** 5/1/35  
**Date completed:** 5/9/35

**Type of well:** Drilled  
**Equipment used:** Cable tool

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

**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>Strata</th>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Cable</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>Pumps</th>
<th>Kind</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>35 = 47 red clay</td>
<td>5 inch</td>
<td>5½ od</td>
<td>0</td>
<td>70</td>
<td>NONE</td>
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<td></td>
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<td>47 = 65 sand &amp; water</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
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<td></td>
<td></td>
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<td></td>
<td></td>
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- **Static Water Level for non-flowing well:** 80 ft. below top soil.
- **Shut-in Pressure for flowing well:** 45 gal. per minute.
- **Pumping Water Level:** 88 ft. above top soil.
- **Discharge in gal. per min. of flowing well:**

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

**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).**

---

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.

**Driller's License Number:** 44,752

**Driller's Signature:**

---

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

**DEVELOPED AFTER JANUARY 1, 1902**
(Under Chapter 237, Montana Session Laws, 1961)

**Owner:** Carl Hubertson  
**Address:** Mullan Rd, Missoula

**Driller:** Harold E. Peterson  
**Address:** 3024 20th Ave, Missoula

**Date of Notice of appropriation of groundwater:** 5/1/35  
**Date completed:** 5/9/35

**Type of well:** Drilled  
**Equipment used:** Cable tool

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

**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.**

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<th>To (Feet)</th>
<th>Pumps</th>
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<td></td>
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- **Static Water Level for non-flowing well:** 80 ft. below top soil.
- **Shut-in Pressure for flowing well:** 45 gal. per minute.
- **Pumping Water Level:** 88 ft. above top soil.
- **Discharge in gal. per min. of flowing well:**

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

**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).**

---

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.

**Driller's License Number:** 44,752

**Driller's Signature:**

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

Emmett Flynn, Rt#2, Missoula

County of Missoula, 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:
   Household, Stock Water

3. Date or approximate date of earliest beneficial use, and how continuously the use has been used:
   1942
   Continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute):
   Each 4 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:
   Irrigate: Lawn and Garden
   
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:
   1942

8. The depth of water table:
   35 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:
   1-1/2 inch well 50 feet
   1-1/2 inch well 65 feet

10. The estimated amount of groundwater withdrawn each year:
    Do not know

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

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:
    Do not know

Signature of Owner: Emmett Flynn
Date: Dec 30, 1965

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 received and filed this instrument for record on the __ day of __ , at __ o'clock, __ A.M., permanent time of Missoula County, State of Montana.

Witness my hand:

[Signature]

MARTIN S. BRINNER, County Recorder

[Stamp]

[Stamp]

[Stamp]
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner: Montana Power Company
Address: Missoula, Montana
Driller: W. Russell Minnich
Address: Missoula, Montana
Date Started: Oct. 20, 1949
Date Completed: Nov. 1, 1949

Location: Sec. 13, T. 13 N., R. 20 E., X sec.

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Drilled</th>
</tr>
</thead>
</table>

Equipment used: Drill

Water use: Domestic ☑ Municipal ☐ Stock ☑ Irrigation ☐ Industrial ☐ Drainage ☐ Other: ☐

Casing: Top from Surface to ft. Type: Well Drilled Size: 4" 1/2" Schedule 40 Pipe

Perforated or Screened: From ft. to ft. Type: Schedule 40 Pipe Size: 4" 1/2" Schedule 40 Pipe

Static Water level, for non-flowing well: 11 ft. from Surface

Shut-in pressure, for flowing well: 75 lb./sq. in. on: (date)

Pumping water level: 32 feet at 25 gal. per min.

How tested: Time Lift

Length of test: 8 hours

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

(continues on next page)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 7½</td>
<td>Top soil, sand, gravel, little clay</td>
</tr>
<tr>
<td>15 to 34</td>
<td>Clay, sand, large gravel</td>
</tr>
<tr>
<td>34 to 46</td>
<td>Fine sand, large gravel, trace of clay, good water intake, pumped clean in a short time</td>
</tr>
</tbody>
</table>
Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1983
(Under Chapter 237, Montana Session Laws, 1961)

Date of Notice of Appropriation of groundwater:

Date well started: 6/29/65 Date completed: 6/31/65

Type of well: Drilled Equipment used: Cable tool

(Tang, Driven, bored or drilled) (Churn drill, rotary or other)

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

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

Static Water Level for non-flowing well

Shut-in Pressure for flowing well

Pumping Water Level: feet at gal. per minute.

Discharge in gal. per min. of flowing well

How Tested: Compressor

Length of Test 24 hrs.

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

(Continue on reverse side)

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).

Show exact depth of bottom.

684 ft.

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, unless copy to be retained by driller.

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

Driller's License Number

Driller's Signature
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

William M. Hughes

(Name of Appropriator)

Address: R 2 of Millson Rd. Middlesboro Mont

(Town)

County of Montana State of Montana

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

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

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

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

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

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

6. The estimated amount of groundwater withdrawn each year:

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

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

Signature of Owner:

Date:

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriate.
I received and filed this instrument for record on the ______ day of ______, ______, in the permanent files of Missoula County, State of Montana.

Witness my hand:

MARTIN E. BENNETT, County Recorder

By ____________________________

P.O. Box ___________ Paid
Notice of Completion of Groundwater Appropriation by Means of Well Developed After January 1, 1962

Owner: Armard H. Johnson
Address: 112 Mullen Rd

Driller: Armard H. Johnson
Address: 112 Mullen Rd

Date of Notice of appropriation of groundwater: August 25, 1967
Date well started: August 26, 1967
Date completed: August 28, 1967

Type of well: Driven
Equipment: Other
(Drill, driven, bored or drilled)

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, sand, 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>Strata</th>
<th>Depth (Feet)</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand and Gravel</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Hard Pan</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Sand and Gravel</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Hard Pan</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>Sand and Gravel</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Bottom of well</td>
<td>60</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>6&quot; Schedule</th>
<th>5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size and Weight of Casing</td>
<td>6&quot; Schedule</td>
<td>40</td>
</tr>
<tr>
<td>From (Feet)</td>
<td>To (Feet)</td>
<td>From (Feet)</td>
</tr>
<tr>
<td>Burned</td>
<td>8 1/2</td>
<td>52</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well from surface 9 feet.

Shut-in Pressure for Flowing Well:

Pumping Water Level: 9 feet at 100 gallon per minute.

Discharge in gal. per min. of flowing well:

How Tested: __________________________
Length of Test: _______________________
Remarks: (Gravel packing, cementing, packers, type of shutoff):

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

(Churn drill, rotary or other)

(Continue on reverse side)

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).

Irrigation 5 Acres, Lot 4

Riggs Addition #2

Driller's License Number

Armard H. Johnson

Driller's Signature

Date: 7/5/195

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, these copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.
I received and filed this instrument for record on the 30th day of January, 1924, at 11:45 a.m. at the office of Record of Missouri County, State of Missouri.

Witness my hand:

[Vacuum B. Green, County Recorder]

Fee $1.00.
### WATER WELL LOG

**Location:** Sec. 13, T. 18 N, R. 20 W, 1/4 sec.

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

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

**Casing:**
- 58 ft. from surface to ...
- Type: T.C. Black... Size: 1 1/2" - 12 ft. perfect
- Casing: ft. to ft.
- Type:...
- Size:...
- Casing: ft. to ft.
- Type:...
- Size:...
- Casing: ft. to ft.
- Type:...
- Size:...

**Perforated or Screened:**
- Ft. to Ft.
- Type:...
- Size:...

**Type of screen or perforations:**

**Static Water level, for non-flowing well:** 4 ft. from surface...

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

**Pumping water level:** 2.5 feet at 30 gal. per min.

**How tested:** Air lift

**Length of test:**...

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

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 10</td>
<td>Top soil sand, mixed, clay</td>
</tr>
<tr>
<td>10 - 25</td>
<td>Clay, sand, some imbedded</td>
</tr>
<tr>
<td>25 - 45</td>
<td>Clay, some sand, light gravel</td>
</tr>
<tr>
<td>45 - 52-6</td>
<td>Loose sand, small gravel, mixed</td>
</tr>
<tr>
<td></td>
<td>Ramped clay since shot time</td>
</tr>
<tr>
<td></td>
<td>Sand water strata</td>
</tr>
</tbody>
</table>
Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962
(Under Chapter 237, Montana Session Laws, 1961)

Owner: Pat Morgan
Address: 1014 Main St., Missoula

Driller: Harold E. Platem
Address: 3342 5th Ave., Missoula

Date of Notice of appropriation of groundwater:

Date well started: 7/20/62
Date completed: 7/20/62

Type of well: DUG
Equipment used: DUG

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.

Static Water Level for non-flowing well
Shut-In Pressure for flowing well
Pumping Water Level
How Tested
Length of Test
Remarks: (Gravel packing, cementing, packers, type of shutoff)

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).

Driller’s License Number
Driller’s Signature
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: Dean Pearson
Address: 902 Mullan Rd., Missoula, Mont. 59801
Date well started: May 12, 1973
Date well completed: May 11, 1973

Type of well: Drilled
Equipment used: Churn Drill
Water Use: Domestic [ ] Municipal [ ] Stock [ ] Irrigation [ ]
Industrial [ ] Drainage [ ] Other [ ] Garden/Lawn [ ]

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

*Describe

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

Driller’s Signature: CAMPFIELD DRILLING & PUMP SUPPLY
Driller’s Address: 1922 S. 14th St., Missoula, Montana 59801

LICENSE NO. 7
I received and filed this instrument for record on the 12th day of August, 1972 at 10 o'clock A.M. in the Court of Common Pleas of Mercer County, State of Ohio. Witness my hand.

[Signature]

Deputy J. H. County Rec. J. C.}

[Signature]
Notice of Appropriation of Groundwater
(Under Chapter 237, Montana Session Laws, 1961)

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

2. Irrigation
(describe lands to be benefited, if for irrigation)

3. The rate of use in gallons per minute or miner's inches of groundwater claimed: 300

4. The annual period (inclusive dates) of intended use: Continuous

5. The probable or intended date of first beneficial use: September 12, 1973

6. The probable or intended date of commencement and completion of the well* or wells*: September 12, 1973

7. The location, type, size and depth of well or wells contemplated:

8. The probable or estimated depth of the water table or artesian aquifer: 52 feet

9. Name, address and license number of the driller engaged: Official bids to be let to

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

Well information will be filed as soon as available

1/4 Sec. 11, T. 13 N., R. 28
Locate well or other means of development as accurately as possible on the plat.

Signature of Appropriator: June 29, 1973

Date: June 29, 1973

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

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology and quadruplicate for the Appropriator.
I received and filed this instrument for record on the 1st day of July 1972 at 2:26 O'clock P.M., permanent files of Missoula County, State of Montana.

Witness my hand:
Dorothy L. Head, County Recorder
By: [Signature]

Fee $5.00 Paid
Declaration of Vested Groundwater Rights
(under Chapter 237, Montana Session Laws, 1961)

Charles or Hampton Spearle, Routes 5, Box 14, Missoula
(Address)
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: Trailer Court and Rental Property

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: March 15, 1961

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 95 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: Sprinkling lawns, gardens on same property

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: March 15, 1961

8. The depth of water table: 91'

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, 400 feet, 91' depth

10. The estimated amount of groundwater withdrawn each year the well operates at full capacity year round

11. The log of formations encountered in the drilling of each well if available: Sand, gravel, sand, water, gravel, sand, water, clay, 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: A well drillers report is on file at Missoula County Courthouse

Signature of Owner: Charles H. Spearle
Date: Dec 31, 1962

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
I received and filed this instrument for record on the Day of the Month 12 20 20
at the office of the permanent files of the County of Montana
Witness my hand

By County Recorder
Deputy

[Stamp: Filed]
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner: Charles H. Spurlock
Address: 1337 W. Broadway

Driller: John Farrell
Address: Arlee

Date Started: March 12
Date Completed: March 15, 1961

Location: Sec. 13, T. 13 N., R. 20 W., 1/4 sec. S.E. 1/4 NW. 1/4

Type of well: (Dug, driven, bored, or drilled)

Equipment used: (Churn drill, rotary, other)

Water use: Domestic: X, Municipal: , Stock: , Irrigation: 
Industrial: , Drainage: , Other: 

Casing: 0 ft. to 91 ft. Type: 1910 steel, Size: 6" 
Casing: ft. to ft. Type: Size: 
Casing: ft. to ft. Type: Size: 
Perforated or Screened: Ft. to Ft. to Ft. 

Type of screen or perforations: 

Static Water level, for non-flowing well: 30 feet. 
Shut-in pressure, for flowing well: lb./sq. in. on: March 15, 1961 (date)
Pumping water level: 60 feet at 50 gal. per min. 

How tested: Air Compressor 
Length of test: 1 hr.

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

(over)
<table>
<thead>
<tr>
<th>Depth, Feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 5</td>
<td>Silt</td>
</tr>
<tr>
<td>5 - 45</td>
<td>Clay gravel, sand</td>
</tr>
<tr>
<td>45 - 85</td>
<td>Sand water</td>
</tr>
<tr>
<td>85 - 88</td>
<td>Clay course</td>
</tr>
<tr>
<td>88 - 91</td>
<td>Water gravel</td>
</tr>
</tbody>
</table>
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner: Ralph C. Loewenbach
Address: Box 962

Driller: Harold Parbee
Address: Box 100

Date Started: July 8th, 1957
Date Completed: July 8th, 1957

Location: Sec. 13, T. 13 N., R. 44 W., NW 1/4

Type of well: Diamond Drilling
Equipment used: Diamond Drilling

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

Industrial [ ] Drainage [ ] Other: [ ]

Casing: 52 ft. to 95 ft. Type: ½ inch
Casing: [ ] ft. to [ ] ft. Type: [ ] Size: [ ]
Casing: [ ] ft. to [ ] ft. Type: [ ] Size: [ ]
Perforated or Screened: [ ] ft. to [ ] ft. Type: [ ] Size: [ ]

Type of screen or perforations: [ ]

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

Shut-in pressure, for flowing well: lb./sq. in. on: [ ]

Pumping water level: [ ] gal./per min.

How tested: [ ]

Length of test: [ ]

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

[ ]

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>To</td>
</tr>
</tbody>
</table>

Log of Well
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

<table>
<thead>
<tr>
<th>Owner</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ralph Esmerling</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Driller</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Farrell</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date Started</th>
<th>Date Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 23, 1961</td>
<td>March 30, 1961</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Location: Sec. 13</th>
<th>T. 13 N.</th>
<th>R. 6 W. 3-4 sec.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Equipment used</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Dug, driven, bored, or mined)</td>
<td>(Chains, drills, etc., other)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Casing:</th>
<th>ft. to ft.</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 ft.</td>
<td>105 ft.</td>
<td>1 9/16&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Perforated or Screened:</th>
<th>Ft. to Ft.</th>
<th>Ft. to Ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of screen or perforations:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Static Water level, for non-flowing well:</th>
<th>26 1/2 feet</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Shut-in pressure, for flowing well:</th>
<th>lb/sq. in. on:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>March 30, 1961</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pumping water level:</th>
<th>Feet at: 50 feet</th>
<th>Gal. per min. 60</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>How tested:</th>
<th>Water</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Length of test:</th>
<th>2 hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

(over)
<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>3</td>
<td>Top soil</td>
</tr>
<tr>
<td>3</td>
<td>39</td>
<td>granul. clay</td>
</tr>
<tr>
<td>39</td>
<td>86</td>
<td>fine sand, water</td>
</tr>
<tr>
<td>86</td>
<td>89</td>
<td>brown clay</td>
</tr>
<tr>
<td>89</td>
<td>104</td>
<td>sandy, clay, sand water</td>
</tr>
<tr>
<td>104</td>
<td>105</td>
<td>fine sand, water</td>
</tr>
</tbody>
</table>
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. CHAS. STEINH.,
(Name of Appropriator) of Route 2, Missoula
(Address) (T. 1)  
County of Missoula 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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been:
   Well No. 1-1883;
   Well No. 2-1940;
   Well No. 3-1940;
   Well No. 4-1940.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 100 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:
   Domestic - lawn, garden, houses, watering - livestock

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
   Well No. 1 - 1883;
   Well No. 2-1940;
   Well No. 3-1940;
   Well No. 4-1940.

8. The depth of water table 10 feet.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater:
   Well No. 1-10 feet deep, 2 ft. rock and casing;
   Well No. 2-60 feet deep, 4 inch casing;
   Well No. 3-35 feet deep, 4 inch casing;
   Well No. 4-60 feet deep, 6 inch casing.

10. The estimated amount of groundwater withdrawn each year: 650,000 gallons.

11. The log of formations encountered in the drilling of each well if available:
   gravel - hardpan at 10 ft. level for about 8 feet, then gravel again.

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: December 26, 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 Water and Geology, and Quadruplicate to the Appropriator.
**Notice of Completion of Groundwater Appropriation by Means of Well**

*DEVELOPED AFTER JANUARY 1, 1966*

(Under Chapter 207, Montana Session Laws 1961)

Chas T. Stahl and Minnie F. Stahl and

**Owner:** W. Edwin Stahl  
**Address:** 212, Missoula

**Driller:** Glenn Camp  
**Address:** 705 Alder, Missoula, Mont.

**Date of Notice of appropriation of groundwater:** Sept. 21, 1966

**Date well started:** 4/11/66  
**Date completed:** 4/12/66

**Type of well:** Drilled  
**Equipment used:** Churn drill

**Water use:** Domestic [ ] Municipal [X]  
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>Strata</th>
<th>Rise and</th>
<th>Flowing</th>
<th>Non-Flowing</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 15'</td>
<td>6' I.D.</td>
<td>2' above G.L.</td>
<td>69'-10'</td>
<td>No well</td>
</tr>
<tr>
<td>15' to 19'</td>
<td>17' to 42'</td>
<td>90 gal per min.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19' to 25'</td>
<td>115 gal per min.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25' to 35'</td>
<td>28' to 75'</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>35' to 40'</td>
<td>67' to 210'</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>40' to 45'</td>
<td>76' to 250'</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>45' to 50'</td>
<td>85' to 950'</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Static Water Level for non-flowing well:** 20 feet.

**Shut-In Pressure for Flowing Well:** [ ]

**Pumping Water Level:** 22 feet  
at 90 gal per min.

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

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

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

**Show exact depth of bottom.**

---

**License # 7**

Driller's License Number  
Driller's Signature

<table>
<thead>
<tr>
<th>Date of Notice of Appropriation</th>
<th>Area Used for</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sept. 21, 1966</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**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).**

---

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

*STATE OF MONTANA*

**ADMINISTRATOR OF GROUNDWATER CODE**

**OFFICE OF STATE ENGINEER**

---

Driller's License Number

Driller's Signature

416, 32
Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962
(Under Chapter 237, Montana Session Laws, 1961)

| Top of Ground (Elev. above sea level 371.30') |
|-----------------|------------------|------------------|------------------|
| 0 to 2½ top soil | Owner: Paul R. Suesett | Address: Julian, MT | |
| 2½ to 16 Gravel, Cobble & Sand | Name: Harold K. Pickens | Address: 3524 Ave. A | |
| 16 to 45 Small Gravel Sand & Water | | | |
| 45 to 52 Sand & Water | Date of Notice of appropriation of groundwater | | |
| 52 to 56 Hard Pan | Date well started: 7/1/65 | Date completed: 7/3/65 | |
| 56 to 59 Gravel & Water | Type of well: Drilled (Dug, Driven, bored or drilled) | Equipment used: Cable tool | |
| | (Dug, Driven, bored or drilled) | (Churn drill, rotary or other) | |
| | Water use: Domestic | Municipal | Stock | Irrigation |
| | Industrial | Drainage | Other | |

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, slate, 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>Line of Drilled Site</th>
<th>Depth and Weight of Casing</th>
<th>Depth (Feet)</th>
<th>Temperature (F)</th>
<th>Pressure (Ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 inch</td>
<td>14.67</td>
<td>0</td>
<td>0 ft.</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well

Shut-in Pressure for flowing well

Pumping Water Level at 40 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested: Compressor

Length of Test: 24 hrs.

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

Lot Two (2) of Rigs Addition No. 1, Assoula, County, Montana.

See Plan of Lot, T, R, 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 (ie.: Lot, Block and Addition).

(Continue on reverse side)

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, same copy to be retained by driller.

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

Driller's License Number

Driller's Signature

4.12.78