I received and filed this instrument for record on the 17th day of Sept., 1963, at 2:20 p.m., in the presence of Missoula County, State of Montana.
Witness my hand:
MARTIN S. BEHNER, County Recorder
By: DEAN M. WRAY, Deputy
P.O. Box 135, Missoula, Montana
WATER WELL LOG

Owner: A.V. Hieft
Address: Missoula

Driller: John Farrell
Address: anlee

Date Started: Jan 15, 1958
Date Completed: Jan 22, 1958

Location: Sec. 5, T. 12, R. 19, 1/4 sec.

Type of well: Domestic
Equipment used: churn drill, rotary, other

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

Casing: 0 ft. to 132 ft. Type: Black Size: 6"

Perforated or Screened: Ft. to Ft. to Ft. to Ft.

Type of screen or perforations:

Static Water level, for non-flowing well: 60 feet

Shut-in pressure, for flowing well: 0 lb./sq. in. on: Jan 22, 1958

Pumping water level: 130 feet at gal. per min. 2.5

How tested: Balance

Length of test: 1/4

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 95'</td>
<td>Henry gravel clay</td>
</tr>
<tr>
<td>95 - 132</td>
<td>Water sand gravel</td>
</tr>
</tbody>
</table>
Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 237, Montana Session Laws, 1961)

Owner: Vernon Hoven
Address: Arlee, Montana

Driller: John Farrell
Address: Arlee, Montana

Date of Notice of Appropriation of Groundwater: 1/15/58
Date well started: 1/15/58
Date completed: 1/22/58

Type of well: Drilled
Equipment Used: Drill

Water Use: Domestic

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

<table>
<thead>
<tr>
<th>Strata</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-92' Heavy gravel clay</td>
<td>92-132' Water sand gravel</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: feet
Shut-in Pressure for flowing Well:...
Pumping Water Level: 92' at 55 gal. per min.
Discharge in gal. per min. of flowing well:...
How Tested: Bailing
Length of Test: Lowered
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).

Driller's License Number: 2121
Owner's Signature: [Signature]
Driller's Signature: [Signature]

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

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

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

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

Dan and Vera M. O'Connor
(Name of Appropriator)
of Rte. 3
(Address)
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
   1914 - continuous

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

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
   14 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
   1914 commenced and completed

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
   6-in. casing and 80 feet deep

10. The estimated amount of groundwater withdrawn each year
    1,350,000 gallons annually

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
    None

Signature of Owner
Date

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the 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 1966

Daniel J. and
Owner: Vera M. O'Connor. Address: Eta 3, Missoula

Contractor (if any) None

Address of Contractor

Date Started 1866 Date Completed 1866

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

Spring in Section 5, Township 12 North, Range 19 West. Water rises to surface

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

Water is piped from springs for domestic use and irrigation about 10 miner's inches per minute

Signature of Owner: Vera M. O'Connor

Date: August 31, 1967

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.

This notice is to correct the description contained in the notice dated December 31, 1963, and filed for record the 21 day of December, 1963.
Received and filed this instrument for record on the 21st day of June, 1907, at 11:15 o'clock A.M., pursuant to law of Missoula County, State of Montana.

Witness my hand:

Vicente J. Brown, County Recorder

By: T. A. Brown, Deputy

Dec. 31, 1907
Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

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

**DEVELOPED AFTER JANUARY 1, 1962**

(Under Chapter 237, Montana Session Laws, 1961)

<table>
<thead>
<tr>
<th>Layer</th>
<th>Type of Strata</th>
<th>Date of Notice of Appropriation</th>
<th>Date Well Started</th>
<th>Date Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-7</td>
<td>Clay</td>
<td>Owner: W. O. Brown</td>
<td>Address: 11 Martha Ct.</td>
<td></td>
</tr>
<tr>
<td>7-34</td>
<td>Clay &amp; Gravel</td>
<td>Driller: Glenn Corp</td>
<td>Address: 1522 S. 16th</td>
<td></td>
</tr>
<tr>
<td>31-44</td>
<td>Gravel, Sand, Clay &amp; Water</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>44-46</td>
<td>Sand, Gravel, Water</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>46-51</td>
<td>Sand &amp; Water</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>51-58</td>
<td>Gravel, Sand, &amp; Water (could perforate)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>65-67</td>
<td>Clay</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>57-60</td>
<td>Gravel, Clay, Sand, Water</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>59-62</td>
<td>Gravel, Sand &amp; Water</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Equipment used:**
- **Drilled:**
- **Cham Drill**
- (Dug, Driven, bored or drilled)
- **Type of well Drilled:**
- **Equipment used:**
- **Cham Drill**
- (Dug, 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, 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.**

**Site of Drilled Hole**

<table>
<thead>
<tr>
<th>Site of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>From</th>
<th>To</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:**

**T 12, R 19**

Lot #3, Zimmerman Tract

**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, tissue copy to be retained by driller.

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

**License No.**

Driller's License Number

**Driller's Signature**

44, 447
<table>
<thead>
<tr>
<th>273206</th>
</tr>
</thead>
</table>

I received and filed this Instrument for record on the 27th day of June, 1909, at 11:00 a.m., in the office of the County Recorder of Missoula County, State of Montana.

Witness my hand,

[Signature]

S. C. GREER,

County Recorder

By: [Signature]

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

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

OR
John T. and Louise A. Campbell
of Route 3
 mixins.

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 and some irrigation

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute). 20 to 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. Blaine 2, survey 7, 1/2, 16, sec. 12, August 30, 1950

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. Well Drilled well, total depth 85 feet, cased with 1-inch casing

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Blaine 2, survey 7, 1/2, 16, sec. 12, August 30, 1950

8. The depth of water table 20 to 40 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, total depth 85 feet, cased with 1-inch casing

10. The estimated amount of groundwater withdrawn each year 90,000

11. The log of formations encountered in the drilling of each well if available. 5 feet, boulder; 5-20 feet, boulders and gravel; 20-30 feet, sand and gravel; 50-70 feet, 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. Unknown at this time

Signature of Owner: John T. Campbell
Date: December 1, 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.

20 39
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: Harold Hardy
Address: 3419 39th St., Missoula, Montana
File #: 234, 322-677
Date well started: Sept. 18, 1972
Date well completed: Sept. 19, 1972

Type of well: Drilled

Equipment used: Churn Drill

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) - 1 ACRE

ESTIMATED ANNUAL WITHDRAWAL

<table>
<thead>
<tr>
<th>Size of Drilled Well</th>
<th>Rise and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PREPARATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot; ID</td>
<td>6&quot; ID 17 lb per ft.</td>
<td>1' above g.l.</td>
<td>76'</td>
<td>none</td>
</tr>
</tbody>
</table>

Static water level: 28 ft.
Pumping water level: 28 ft.
at 100 gallons per minute measured 8 minutes after pumping began.

*Measured from ground level.
Well developed by compressor for 3 hours.
Power: Does not pump, apply 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: ALLEN CAMER
Driller's Address: 1522 S. 14th W., Missoula, Montana 59801

LICENSE NO.: 7

Top of Ground (Rise above sea level)

<table>
<thead>
<tr>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>29</td>
</tr>
<tr>
<td>29</td>
<td>70</td>
</tr>
<tr>
<td>70</td>
<td>75</td>
</tr>
</tbody>
</table>

Show exact depth of bottom

51. 522
I received and filed this instrument for record on the 28th day of August, 1913, at 1:15 o'clock P.M., in the name of Missoula County, State of Montana.
Witness my hand.

W. R. Cutter, County Recorder.
By: [Signature]
Deputy
Feb. 12, 1913.

[Stamp]

[Stamp]
**STATE OF MONTANA**  
**ADMINISTRATOR OF GROUNDWATER CODE**  
**OFFICE OF STATE ENGINEER**

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

**Owner:**  
**Address:**

**County:**  
**State:**

**Date of Appropriation:**  
**Town:**

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

<table>
<thead>
<tr>
<th>2. The beneficial use on which the claim is based.</th>
<th>3. The date or approximate date of earliest beneficial use; and how continuous the use has been.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Name of Owner</strong></td>
<td><strong>Year</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4. The amount of groundwater claimed (in miner's inches or gallons per minute).</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gallons per minute</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acreage</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Date</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>8. The depth of water table.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Feet</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>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.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>10. The estimated amount of groundwater withdrawn each year.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Not Applicable</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>11. The log of formations encountered in the drilling of each well if available.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Not Applicable</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Not Applicable</strong></td>
</tr>
</tbody>
</table>

**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; Tripli-cate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
<table>
<thead>
<tr>
<th>Water use:</th>
<th>Domestic</th>
<th></th>
<th>Municipal</th>
<th></th>
<th>Stock</th>
<th></th>
<th>Irrigation</th>
<th></th>
<th>Industrial</th>
<th></th>
<th>Drainage</th>
<th></th>
<th>Other</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing:</td>
<td>0</td>
<td>ft. to</td>
<td>215</td>
<td>ft.</td>
<td>Type</td>
<td>cemented</td>
<td>5&quot;</td>
<td>Size</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Casing:</td>
<td>0</td>
<td>ft. to</td>
<td>215</td>
<td>ft.</td>
<td>Type</td>
<td></td>
<td></td>
<td>Size</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perforated or Screened:</td>
<td>0</td>
<td>ft. to</td>
<td>215</td>
<td>ft.</td>
<td>Type</td>
<td></td>
<td></td>
<td>Size</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type of screen or perforations</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Static Water level, for non-flowing well:</td>
<td>326'</td>
<td>(Original copy on file in Missoula, Montana shows 226')</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shut-in pressure, for flowing well:</td>
<td>2.4 lb./sq. in. on:</td>
<td>(date)</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pumping water level:</td>
<td>3.24'</td>
<td>feet at</td>
<td>10 gal. per min.</td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>How tested:</td>
<td>Harmon</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length of test:</td>
<td>2.1 Ms</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remarks:</td>
<td>Gravel packing, cementing, packers, type of shut-off, depth of shut-off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depth, feet</td>
<td>Description of Material Drilled</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>6</td>
<td>1 st ft.</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.6</td>
<td>Clay gravel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>68</td>
<td>Sand Boulder</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>120</td>
<td>Gray clay</td>
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<td>120-127</td>
<td>Clay sand gravel</td>
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<td>128-132</td>
<td>Sand and little water</td>
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<td>132-190</td>
<td>Brown clay</td>
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<td>190-260</td>
<td>Green clay</td>
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<tr>
<td>260-284</td>
<td>Quin sand and little water</td>
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<td>284-295</td>
<td>Quin clay</td>
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<td>296-312</td>
<td>Brown clay, quick sand</td>
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<td>312-325</td>
<td>Green clay</td>
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<td>325-226</td>
<td>Water and green gravel</td>
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</tbody>
</table>
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. MARSHALL J. HENRY, at MISSOULA
   (Name of Appropriate) (Address) (Town)

   County of MISSOULA State of MONT

   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...PRIOR TO 1947...

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

   Signature of Owner...

   Date...

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

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

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

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

Hillside Manor
4720 - 23rd St., 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: Supply domestic and irrigation water for nursing home.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: Sep. 5, 1961

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 24 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: Lawns and shrubbery surrounding nursing home

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Aug. 14, 1961 to Sep. 5, 1961

8. The depth of water table: 92 feet from ground level

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other means for the withdrawal of groundwater: Well No. 1, drilled 6-inch well 283 ft. deep with a 6-inch Johnson well screen from 273 to 283 feet. Well No. 2, drilled 6-inch well 123 ft. deep with a 6-inch Johnson well screen from 120 ft. to 134 ft.

10. The estimated amount of groundwater withdrawn each year: 12,000,000 gallons

11. The log of formations encountered in the drilling of each well if available: Wall f. 1 dry gravel sand, and clay to 273 and water bearing sand to 283 ft. Wall f. 2 dry gravel sand and clay to 128 ft. and water bearing sand and gravel from 128 ft. to 134 ft.

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record: This applies to two separate wells in close proximity about 300 ft. apart.

Hillside Manor

Signature of Owner: Leonard Petrey

Date: April 17, 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 17th day of April 1922, at 4:30 o'clock P.M., having been duly executed by the defendant, for the purpose of conveying the premises described herein.

J. M. KELLOGG, County Recorder of Missoula County, State of Montana.

Witness my hand.

J. M. KELLOGG, County Recorder.

Fees $2.00 Paid.
Notice of Completion of Groundwater Appropriation by Means of Well
Devised After January 1, 1963
(Under Chapter 237, Montana Session Laws, 1961)

Montana Power Company

Driller: Glenn Camp
Address: 1422 S. 14th St., Missoula, Montana

Date of Notice of Appropriation of groundwater: August 23, 1968
Date well started: July 12, 1968
Date completed: August 6, 1968

Type of well Drilled: Pumping Equipment used: Crown Drill
Type of well Drilled: Dug, 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 coll, 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
30\(\text{ft}\), from top of strata foot.

Shut-In Pressure for Flowing Wells M.A.
Pumping Water Level: 30\(\text{ft}\)
at 1000 gal. per minute.

Discharge in gal. per min. of flowing well W.A.

How Tested: Test Pump
Length of Test: 24 hours
Remarks: (Gravel packing, cementing, packers, type of shutoff)

Connect shut off in bottom of well

License No. 7
Driller's License Number

Glenn Camp
Driller's Signature

41,540#539

I received and filed this instrument for record on the 26th day of Aug., 1962, at 7:45 A.M., and recorded it on the premises of the Missoula County Recorder, State of Montana.

Witness my hand:

[Signature]

County Recorder

By: [Signature]

Deputy

Fee $2.25

Paid $2

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

1. THE MONTANA POWER COMPANY, of 40 E. Broadway, Butte, Montana
   (Name of Appropriator) (Address) (Town)
   County of Silver Bow, State of Montana, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.

2. The beneficial use to which water is to be applied is for municipal water supply.

3. The rate of use in gallons per minute or miner’s inches of groundwater claimed is 1,000 gallons per minute.

4. The annual period (inclusive dates) of intended use is 24 hours per day, January 1 through December 31 each year.

5. The probable or intended date of first beneficial use is August 6, 1968.

6. The probable or intended date of commencement and completion of the well* or wells* is July 19, 1968.

7. The location, type, size and depth of well or wells contemplated are drilled, 16” I.D. well, perforated to a depth of 105 feet.

8. The probable or estimated depth of the water table or artesian aquifer is 95-105 feet.

9. Name, address and license number of the driller engaged is Glenn Camp, 1522 S. 14th W., Missoula, Montana, license #7.

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

   The Montana Power Company
   By Vice President
   40 E. Broadway, Butte, Montana

   APPROPRIATOR

   Date August 23, 1968

* 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. Quadruplicate for the Appropriator.

4/4/54/4
I received and filed this instrument for record on the 14th day of August, 1962, at 10:00 o'clock A.M., pursuant to the laws of McLean County, State of Montana, and made the record official records of the said county.

Witness my hand:

[Signatures]

[Notary Public]

[County Recorder]
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Walter and Mabel Perry, at Millwood

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.

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

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

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

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

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

8. The depth of water table.

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

10. The estimated amount of groundwater withdrawn each year.

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

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

Signature of Owner: Walter and Mabel Perry

Date: Dec 31, 1963

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
I received and filed this instrument for re-recording on the 1st day of November, A.D. 1882, by which E. K., permanent tithes of Ninemile County, State of Montana, witnessed and made. 

WIREDIR to IMPRINT, County Recorder. 
By: [Signature] Deputy 

Rev. 1. [Date] Field.
Declaration of Vested Groundwater Rights

Under Chapter 237, Montana Session Laws, 1961

1. William E. Christin Purdy, of 2125 39th St. At. Missoula
   (Name of Appropriator) (Address) (Town)
   County of Missoula State of Montana
   I have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

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

3. Date or approximate date of earliest beneficial use: Dec. 1955
   and how continuous the use has been: Continuous every day

4. The amount of groundwater claimed (in miner's inches or gallons per minute): Not available

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: 14.81290
   (Name of Owner)

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: Well
   Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: About 1963

8. The depth of water table: 60-70

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: Not available

10. The estimated amount of groundwater withdrawn each year: Not available

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

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

   Signature of Owner: Christian Purdy
   Date: Dec. 31, 1963

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

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

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

20425
I received and filed this instrument for record on the 21st day of June, 1967, in the Office of the County Clerk of Mingo County, State of West Virginia.

Witnes, my hand.

[Signature]

By: [Official Title]

[Handwritten Notes]
<table>
<thead>
<tr>
<th>Owner</th>
<th>Bertha S. Rehder</th>
<th>Address</th>
<th>Missoula, Montana</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller</td>
<td>A. R. Moxkran</td>
<td>Address</td>
<td>Missoula, Montana</td>
</tr>
<tr>
<td>Date Started</td>
<td>Dug 1945</td>
<td>Date Completed</td>
<td>Cased 1945</td>
</tr>
</tbody>
</table>

**Location:** Sec. 6, T. 12N, R. 19W, 1/4 sec. Lot 12, M&L NW

**Type of well:** Originally dug, Cased 1945

**Equipment used:** (Drill, driven, bored, or drilled)

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

**Casing:** 0 ft. to 60 ft. Type __________ Size __________ (Four Inch)

**Perforated or Screened:** Ft. to Ft. to

**Type of screen or perforations:**

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

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

**Pumping water level:** 10 (ten) feet at 40 (forty) 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
Declaration of Vested Groundwater Rights

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

LOUISE GROUT of Seattle, Washington, and
HARRIET PLACUS, ROBERT LINE JR. and
RFD Whitaker Hill Drive
1. DAVID C. LINE
(Name of Appropriator) of Missoula, Montana

2. The beneficial use on which the claim is based
   Irrigation and soil treatment

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) (Well) Flow of 3 gal. per minute or 3 million gal. annually

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:
   Divide into 1/4 acre lots and state if entire or part of each
   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

   Springs - free flow

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
   (July 1961 and completed October 1961)

8. The depth of water table
   Unknown. Well depth 18 feet. In Spring full; by Fall down to 1 1/2 feet in 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
   Well dug by backhoe on tractor.
   2-foot opening, 18 feet in depth, wood cribbing, no casing.

10. The actual amount of groundwater withdrawn each year
   Approximately 3 million gallons

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

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

Signature of Owner

Date: October 15, 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.
Missoula

HARRIET FLACCUS, ROBERT LINE JR.
and DAVID C. LINE,

STATE OF WASHINGTON
County of King

LOUISE GROVE, having first been duly sworn, deposes and
says that she is of lawful age and is one of the appropriators and
claimants of the order and water right mentioned in the foregoing
declaration of vested groundwater rights and the person whose name is
subscribed thereto, as the appropriator and claimant; that she knows
the contents of said foregoing notice and that the matters and things
therein stated are true.

SUBSCRIBED AND SWORN TO before me this
day of October, 1963.

ROTARY PUBLIC for the State of Washington.
Residing at Spokane, Washington.
My Commission expires
Notice of Completion of Groundwater Appropriation by Means of Well

Notice of Completion of Groundwater Appropriation by Means of Well

Under Chapter 237, Montana Session Laws, 1961

Louise Flaccus, Washington

Harrell Flaccus, Robert

Owner, Line Jr. and David Address, Missoula, Montana

Driller, Robert C. Line Jr. Address

Date of Notice of Appropriation of Groundwater:

Date well started: July 1961

Date completed: October 1961

Type of well: Dug well

Equipment Used: Tractor & backhoe

Water Use: Domestic

Industrial

Municipal

Drainage

Other

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 water rises in the well.

<table>
<thead>
<tr>
<th>Depth of Drilled Hole</th>
<th>Size and Weight of Drilling Tool</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 ft.</td>
<td>No casing (wood cribbing)</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: Same

Shut-in Pressure for Flowing Well: 0 lbs per square inch

Pumping Water Level: 50 feet at

Discharge in gal. per min. of Flowing well: 3 gal. per minute

Annual Flow: 3 million gallons

How Tested: Length of Test

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and other similar pertinent information, including number of acres irrigated, if used for irrigation.) Log not kept but formation of clay, gravel and topsoil. Runs into tanks on siphon from well.

Driller's License Number

Driller's Signature

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

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

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

HARRIET FLAGGUS, ROBERT C. LINE JR. and DAVID C. LINE,

LOUISE GROUT, having been first duly sworn, deposes and says that she is of lawful age and is one of the appropriators and claimants of the order and water right mentioned in the foregoing notice of completion of groundwater appropriation by means of well and the person whose name is subscribed thereto, as one of the appropriators and claimants, that she knows the contents of said foregoing notice and that the matters and things therein stated are true.

SUBSCRIBED AND SWORN TO before me this day of October, 1963.

NOTARY PUBLIC for the State of Washington.
Residing at Spokane, Washington.
My Commission expires
Form No. 18
3-60

T. 12N  R. 19W
County Missoula

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

STATE ENGINEER

Owner Leonard Senechal  Address 243 Dixon, Missoula
Driller Glenn Camp, 705 Alder  Address Missoula, Montana
Date Started April 19, 1961  Date Completed April 22, 1961
Location: Sec. 6  T. 12N  R. 19W  ½ sec. NW ¼ NW ¼

<table>
<thead>
<tr>
<th>Type of well Drilled</th>
<th>Equipment used</th>
</tr>
</thead>
<tbody>
<tr>
<td>(bore, driven, bored, or drilled)</td>
<td>Churn Drill</td>
</tr>
</tbody>
</table>

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

Casing: 4" above ground level to 83'-7" ft.  Type Seamless  Size 6" I.B. 19 lbs to ft.
Casing: _______ ft. to _______ ft.  Type _______  Size _______
Casing: _______ ft. to _______ ft.  Type _______  Size _______

Perforated or Screened: Ft. _______ to ft. _______.  Ft. _______ to ft. _______
Type of screen or perforations

Static Water level, for non-flowing well: _______ feet.
Shut-in pressure, for flowing well: _______ lb./sq. in. on: _______

Pumping water level _______ feet at 28 G.P.M.  gal. per min.

How tested: Bailer (compressor test 60 G.P.M.)
Length of test 1 hour

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

All three copies to be filed with the County Clerk and Recorder.

Lot A, Tract 26, Southside Homes, according to the official plat thereof,
as filed in the Clerk and Recorders Office, Missoula County, Montana.

(over)
## Log of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>From</th>
<th>To</th>
<th>Description or Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>6'</td>
<td>Sandy Clay</td>
</tr>
<tr>
<td></td>
<td>6'</td>
<td>15'</td>
<td>Sand &amp; coarse gravel</td>
</tr>
<tr>
<td></td>
<td>15'</td>
<td>19'</td>
<td>Clay</td>
</tr>
<tr>
<td></td>
<td>19'</td>
<td>22'</td>
<td>Sand &amp; gravel (water) in loose clay</td>
</tr>
<tr>
<td></td>
<td>22'</td>
<td>35'</td>
<td>Tight clay &amp; gravel</td>
</tr>
<tr>
<td></td>
<td>35'</td>
<td>38'</td>
<td>Sand &amp; silt (water)</td>
</tr>
<tr>
<td></td>
<td>38'</td>
<td>56'</td>
<td>Clay &amp; gravel</td>
</tr>
<tr>
<td></td>
<td>56'</td>
<td>84'</td>
<td>Silty Sand &amp; small gravel</td>
</tr>
<tr>
<td></td>
<td>84'</td>
<td>88'-3&quot;</td>
<td>Gravel &amp; water</td>
</tr>
</tbody>
</table>
WATER WELL LOG

Owner: Don Tripp
Address: Cold Springs

Driller: John Farrell
Address: Albion

Date Started: July 9, 1967
Date Completed: Sept. 26, 1967

Location: Sec. 6, T. 12, R. 19, N. sec.

Type of well: Drilled
Equipment used: Churn
(Drill, driven, bored, or drilled)

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

Casing: 0 ft. to 74 ft. Type: Steel
Size: 5"

Perforated or Screened: Ft. to Ft. to Ft. to Ft.
Type of screen or perforations:

Static Water level, for non-flowing well: 35'

Shut-in pressure, for flowing well:

Pumping water level 76' feet at gal. per min. 18'

How tested:

Length of test 1 hr.

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)
<table>
<thead>
<tr>
<th>Depth: feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 6'</td>
<td>cemented sand</td>
</tr>
<tr>
<td>6 - 14'</td>
<td>clay sand</td>
</tr>
<tr>
<td>14' - 47'</td>
<td>clay sand</td>
</tr>
<tr>
<td>47' - 72'</td>
<td>water sand</td>
</tr>
<tr>
<td>72' - 74'</td>
<td>brackish water</td>
</tr>
</tbody>
</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: June 12, 1942
Owner: [Name]
Address: [Address]
Contractor (if any): [Name]
Address of Contractor: [Address]
Date Started: [Date]
Date Completed: [Date]

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: [Signature]
Date: [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; 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.............August 12, 1964
Owner Otto Tiets Address 3525 S. 3rd West
Estate P. Tiets Wife None

Address of Contractor

Date Started Natural Date Completed XX

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

Paved out to a dept of about 4 ft

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

Township Twelve (12), North
Approx 400 ft west of East Line
Approx 600 ft south of North Line

Signature of Owner Otto Tiets

Date August 12, 1964

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 Approprietor.

38393
I received and filed this instrument for record on the 13th day of June to be recorded by and at my own hand, the recorder of Missouri County, State of Missouri.

Witness my hand:

[Signature]

Dated: __________, __________

Fee $________ and ________ Paid
State of Montana

Notice of Completion of Groundwater Appropriation by Means of Well

Owner: Richard J. Hayden
Address: Main St, Miles City

Driller: Glenn Camp
Address: Miles City

Date of Notice of Appropriation of Groundwater: Dec 31, 1963

Type of well: Churn drill, rotary or other

Date well started: Aug 12 1963
Date completed: Aug 15 1964

Type of well: Churn drill, rotary or other

Water Use: Irrigation

Static Water Level for non-flowing well: 20 ft
Shut-in Pressure for Flowing Well: 20 ft
Pumping Water Level: 20 ft at 7 gal. per minute

Discharge in gal. per min. of flowing well: 16 gal.

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

Indicate location of well and place of use, if possible. Each small square represents 10 acres.

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology; 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 31, 1963
Owner: Richard Hayden
Address: Montana
Contractor (if any): Not known
Address of Contractor: Not known
Date Started: Not known
Date Completed: Not known

Describe means of obtaining groundwater without a well ° by sub-irrigation and other natural processes. Include depth to water when applicable. Gravity & Ponds

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.

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 for record on the 4th day of November 1887 at Sixty-sixth Street, New York, permanent files of Minnesota County, State of Minnesota.

M. A. E. Deputy Recorder

V. E. F. Paid
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Date of Appropriation of Groundwater: 1958
Owner: HAROLD LACE
Address: PO. BOX 1421
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.

Continuous Use

Signature of Owner: 
Date: Dec 20, 1968

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 Appropiator.
Declaration of Vested Groundwater Rights

LOUISE GROUT OF SEATIDE, Chapter 237, Montana Session Laws, 1961
Washington and Harriet Place, RFD 5 Whitaker Hill Drive
and David C. Line

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. For agricultural household, irrigation and general farm use, including water for stock raising.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. 
   October 1961 Springs, continuous since December 1955

4. The amount of groundwater claimed (in miner's inches or gallons per minute) for well-5 gal. per minute; 3 million gal. annually. For springs—all available with a total of 100 million gal. per year plus unknown amounts

5. The construction, give the acreage and description of the lands to which water has been applied and name of the owner thereof:
   Sec. 9 T 12 S R 19 W, Missoula Co., Montana Owners as in No. 1 above.
   (50 acres)

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. For well-Siphon located on diagram. Springs are free flow to surface

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. For well-July 1951 and completed October 1961
   Unknown Well depth 18 feet. In Spring it is full; by fall down to 15 feet in depth. For springs a few inches to 20 feet or more down. Various levels

8. The depth of water table. Well dug by backhoe and tractor by foot openings. 18 feet in depth. Wood cribbing; no casing. For springs, trenching, hill side cuts with tractor. Spring box as major collecting agency taking water from free flowing springs, stimulated by removal of surface debris; use of reservoirs and siphon systems.

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. For well-Siphon

10. The estimated amount of groundwater withdrawn each year. For wells, approximately 3 million gallons. For springs, in excess of 100 million gallons

11. The log of formations encountered in the drilling of each well if available. Formation consists of top soil, clay and gravel. Log not kept.

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.

X. [Signature of Owner] Date December 26, 1963

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
LOUISE GROTT, having first been duly sworn, deposes and says that she is of lawful age and is one of the appropriators and claimants of order and water right mentioned in the foregoing declaration of vested groundwater rights and the persons whose names are subscribed thereto as the appropriators and claimants; that she knows the contents of said foregoing notice and that the matters and things therein stated are true.

SUBSCRIBED AND SWORN TO before me this _day of December, 1963

NOTARY PUBLIC for the State of Washington.
Residing at
My Commission expires
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: 1886

Dan and Owner: Vera M. O'Connor
Address: Missoula

Contractor (if any): None
Address of Contractor:

Date Started: 1886
Date Completed: 1886

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

Water rises to surface.

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

Signature of Owner: Vera M. O'Connor
Date: December 31, 1966

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, 1962

Top of Ground

Approx. (Elev. above msl 3092 ft.)

Formations Log:

<table>
<thead>
<tr>
<th>Formation</th>
<th>Description</th>
<th>Date of Notice of appropriation</th>
<th>Date well started</th>
<th>Date completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Dirt, clay and rock</td>
<td></td>
<td>5/22/69</td>
<td>6/14/69</td>
</tr>
<tr>
<td>1</td>
<td>Clay and chucks of rock</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Red argilite</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Clay and broken rock</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Boulders and gravel mixed in brown clay</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>84</td>
<td>Brown clay with some sand and gravel mixed in</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>163</td>
<td>Tan clay with streaks of sandy gravel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>236</td>
<td>Gravel mixed in brown sandy clay</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>236 - 263</td>
<td>Tan clay with fine streaks of gravel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>269 - 276</td>
<td>Cobblestones and gravel mixed in tan clay</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>276 - 299</td>
<td>Sand and gravel imbedded in tan clay</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>299 - 327</td>
<td>Sand and gravel. Some clay mixed in</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>327 - 334</td>
<td>Light brown clay</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>334 - 419</td>
<td>Some gravel imbedded in light brown clay. Seeps of water</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>419 - 428</td>
<td>Red gravel with some clay mixed in</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>428 - 434</td>
<td>Gravel mixed in redish brown clay</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>434 - 435</td>
<td>Clay and gravel mixed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>435 - 461</td>
<td>Light brown and tan clay. Some gravel mixed in.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>461 - 480</td>
<td>Red green and gray gravel mixed in</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Perforations:

- Static Water Level for non-flowing well: 362 feet.
- Shut-in Pressure for Flowing Well: 372 feet at 18 gal. per minute.
- Discharge in gal. per min. of flowing well: Non-flowing

How Tested: Air Lift Pump

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

All water entering well is coming from cracks and seams in the rock below 65 ft.

Show exact depth of strata

Bottom of well 791 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, three copies to be retained by driller.

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

Driller's Signature: William J. OBRAINE

Driller's License Number: 45606
Water flows in the well 298 feet from surface.

698 - 791 pounds per GPM
729 - 695 pounds per GPM
Total 16 GPM

696 - 654 tons/day and expenses.
Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: 1952

Owner: Mitsuru J. Nakamura
Address: Route 4, Missoula, Montana

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: __________
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.
Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: _JUNE 1939_

Owner: A.D. McCullough Address: Missoula, MT

Contractor (if any): N/A

Address of Contractor: N/A

Date Started: _JUNE 1939_ Date Completed: _JUNE 1939_

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

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use. _20,000 G.F.P.A._

Springs is used for single family use. _W.S.

Signature of Owner: _John Smith_

Date: _12/31/63_

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 quadruplicate for the Appropriator.