STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

DECLARATION

John H. Longfellow

Mary Jane Wright

Name of Appropiatar

of

State of Montana

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

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

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

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

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

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

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

8. The depth of water table.

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

10. The estimated amount of groundwater withdrawn each year.

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

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

Signature of Owner

Date

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 Appropiatar.
215301

I received and filed this instrument for record on the 31st day of December 1928 at 3:30 P.M., present at this time at Illinois County, State of Illinois.

Witnesse my hand.

MARTIN S. BLAKE, County Recorder
By: Martin S. Blake, Deputy

Ex 2. 2-34
Paid
**Notice of Completion of Groundwater Appropriation by Means of Well**

(Under Chapter 237, Montana Session Laws, 1961)

**Well Drilled on Big Flat**

**Owner:** LaVell Hunter  
**Address:** 1910 Wyoming

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

**Date of Notice of Appropriation of Groundwater:** 6/19/65

**Date Well Started:** 6/21/65  
**Date Completed:**

**Type of Well:** Drilled  
**Equipment Used:** Churn Drill  
(Churn, drill, rotary or other)

**Water Use:**  
- Domestic □  
- Municipal □  
- Other □  
- Irrigation □  
- Industrial □  
- Drainage □  
- Stock □

**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>Drilled Date</th>
<th>Drilled Depth</th>
<th>Distance below G.L.</th>
<th>From Feet</th>
<th>To Feet</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>6&quot; I.D.</td>
<td>2' below G.L.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17' to ft</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Items</td>
</tr>
</tbody>
</table>

**Static Water Level for non-flowing Well:** 9' from G.L. feet.

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

**Pumping Water Level:** 10 feet at 19 gal. per minute.

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

**How Tested:** Compression  
**Length of Test:** 1 hour

**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).

---

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.
I received and filed this Instrument for record on the 7th day of January 1964, at 9:00 o'clock A.M., pursuant to the laws of Missoula County, State of Montana.
Witness my hand:

Veronica E. C. Gran, County Recorder
By: __________. Deputy
Fees $2.00

[Signature]
## Notice of Completion of Groundwater Appropriation by Means of Well

(Developed after January 1, 1962)

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
- James R. Johnson

### Address
- RIF 1 Big Flats
- Missouri - Mont.

### Date Well Started
- August 1, 1972

### Date Well Completed
- August 1, 1972

### Type of Well
- Driven

### Equipment Used
- Driver on OH Trac

### Water Use
- Domestic ☑️
- Municipal ☐
- Stock ☐
- Irrigation ☐

### Describe Water Use
- Well used to supply water to home

### ESTIMATED ANNUAL WITHDRAWAL
- 80,000

### Top of Ground

<table>
<thead>
<tr>
<th>From (Ft)</th>
<th>To (Ft)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3080</td>
<td>3077</td>
<td>Sand &amp; Clay</td>
</tr>
<tr>
<td>3077</td>
<td>3061</td>
<td>First water</td>
</tr>
<tr>
<td>3061</td>
<td>3055</td>
<td>Sand &amp; Gravel</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Static Water Level
- 14 ft.

### Pumping Water Level
- 22 ft.

### From (Ft) | To (Ft) | Description |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>3080</td>
<td>3077</td>
<td>Sand &amp; Clay</td>
</tr>
<tr>
<td>3077</td>
<td>3061</td>
<td>First water</td>
</tr>
<tr>
<td>3061</td>
<td>3055</td>
<td>Sand &amp; Gravel</td>
</tr>
</tbody>
</table>

### 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
- James R. Johnson

### Driller's Address
- RIF 1 Big Flats
- Missouri

### LICENSE NO.
- Montana

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

---

36 ft. Show exact depth of bottom.
I received and filed this Instrument for record on the 28th day of June, 1923, at 10 o'clock a.m., in the office of the County Recorder of Missoula County, State of Montana.
Witness: Dorothy L. Head, County Recorder.
By: J. D. Cook, Deputy Recorder.
34448
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL
Developed after January 1, 1962
(Under Chapter 237 Montana Session Laws, 1961, as amended)
This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, last copy to be retained by driller. Please answer all questions. If not applicable, so state, otherwise the form may be returned.

Owner: Edward C. Tofield
Address: N1 #1 Big Flat
Pocatello, Montana
Date well started: June 7, 1972
Completed: June 8, 1972

Type of well: Driven
Equipment used: Churn drill
Water Use: Domestic

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

ESTIMATED ANNUAL WITHDRAWAL: 100,000 gallons

<table>
<thead>
<tr>
<th>Size of perforation</th>
<th>Size and weight of casing</th>
<th>Depth of well</th>
<th>Kind of cement</th>
<th>Perforations</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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

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

Driller's Signature: ____________________________
Driller's Address: ____________________________

LICENSE NO: ____________________________

40 feet Show exact depth of bottom

5/1785
STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. ROBERT M. WEST

(Name of Appropriator)

of Route 1, Big Flat, Missoula

(Address)

County of Missoula

(Town)

State of Montana

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

2. The beneficial use on which the claim is based

usual household purposes and irrigation purposes

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

August 1956; constant use since that time.

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

30 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

irrigation consists of yard and garden irrigation about immediate house.

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

water withdrawn by pump located in house

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

well commenced and completed August, 1956.

8. The depth of water table

thirteen 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

depth 47 feet; 4" casing; driven

10. The estimated amount of groundwater withdrawn each year

375,000 gallons

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

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


Signature of Owner

Date December 5, 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 record on the 17th day of June 1860 at 10 A.M., in the presence of L. M., a competent notary public, and of a competent stenographer, and the said instrument was recorded and subscribed as aforesaid.

W. H. BUSH, Notary Public.

[Signature]

[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)

1. ROBERT N. MAST
   (Name of Appropriator)
   of Route 1, Big Flat, Missoula
   (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
      irrigation purposes

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been since that time.
      May 2, 1962; use has been constant since that time.

   4. The amount of groundwater claimed (in miner's inches or gallons per minute) 180 gallons a 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 sprinkler irrigation for 10 acres: Robert N. and Mary Lou Mast, owners.

   6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Electric 5hp pump.

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Commencement May 2, 1962; completion May 10, 1962.

   8. The depth of water table 3 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 Sump hole 10 feet deep.

   10. The estimated amount of groundwater withdrawn each year 8,640,000 gallons.

   11. The log of formations encountered in the drilling of each well if available 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. See Notice of Appropriation filed with Missoula County Clerk and Recorder.

   Signature of Owner: Robert N. Mast
   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.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL
Developed after January 1, 1962
(Under Chapter 237 Montana Session Laws, 1961, as amended)

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

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

Owner: Daniel J. Morris
Address: Rt. 1, Big Flat, Missoula, Mont.
Date well started: 6/23/72
Date well completed: 6/26/72

Type of well: Driven, Sand Point
Equipment used: Single down jammer hammer

Water Use: Domestic: Yes, Municipal: No, Stock: Yes, Irrigation: Yes, Industrial: No, Drainage: No, Other: Yes, Garden/Lawn: Yes

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

ESTIMATED ANNUAL WITHDRAWAL: 150,000 gpd

<table>
<thead>
<tr>
<th>Depth of Hole</th>
<th>Drift and Weight of Drift</th>
<th>Kist Size</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>14'1 1/2</td>
<td>4' ID 6-lb. 60/100</td>
<td>425'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14' 1/2</td>
<td></td>
<td>1&quot; x 4&quot;</td>
<td>1'</td>
<td>8'</td>
</tr>
</tbody>
</table>

(measured from bottom of well)

Static water level: 12 ft.
Pumping water level: 12 ft.
at 34.65 gallons per minute, measured 15 minutes after pumping began.

*Measured from ground level.

Well developed by: REEFS, Inc.
Power: Electric, Pump: 3/4 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: Daniel J. Morris
Driller's Address: Rt. 1, Big Flat, Missoula, Mont.
LICENSE NO: 3200

Show exact depth of well from ground level:

425'
Received and filed this instrument for record on the 28th day of January, 1923, at 9:30 o'clock A.M., in the county of Missoula, in the State of Montana.

Witness my hand:

Dorothy L. Reed, County Recorder

By: [Signature]
Deputy

Fee: $2.50
Paid: [Signature]

[Stamp]

[Stamp]
## Notice of Completion of Groundwater Appropriation by Means of Well

**STATE OF MONTANA**

**ADMINISTRATOR OF GROUNDWATER CODE**

**OFFICE OF STATE ENGINEER**

**DEVELOPED AFTER JANUARY 1, 1962**

(Under Chapter 237, Montana Session Laws, 1961)

**Big Flats, Sand and Gravel Water**

**Address**: Missoula, Montana

**Date**: May 18, 1967

**Date completed**: May 19, 1967

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**Well #3**

- **Top Soil**: 0-4
- **Sand and Gravel Water**: 4-30
- **Sand**: 30-33
- **Sand and Gravel**: 33-35
- **Sand, Gravel Water**: 35-41.5

---

**Type of well**: Drilled

**Equipment used**: Churn Drill

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

---

**Perforations**

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot; I.D.</td>
<td>17 lb per ft.</td>
<td>2'</td>
<td>29'1/2&quot;</td>
</tr>
</tbody>
</table>

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**Static Water Level for non-flowing well**: 12 feet

**Shut-in Pressure for Flowing Well**: 70 lb per sq ft

**Pumping Water Level**: 20 feet

**Discharge in gal. per min. of flowing well**: 70 gal. per minute

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**How Tested**: Compressor

**Length of Test**: Approx. 2 hours

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

---

**Indicate on diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shales, 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.**

---

**License No.**: 42,512

**Driller's License Number**: 42,512

**Driller's Signature**: Glenn Camp

---

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.
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**

(Elav. above sea level)

<table>
<thead>
<tr>
<th>Well #2</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-3</td>
</tr>
<tr>
<td>3-39'6&quot;</td>
</tr>
<tr>
<td>39'6&quot;-66</td>
</tr>
<tr>
<td>66-105</td>
</tr>
<tr>
<td>105-120</td>
</tr>
<tr>
<td>120-125</td>
</tr>
<tr>
<td>125-130</td>
</tr>
<tr>
<td>130-135</td>
</tr>
<tr>
<td>135-136</td>
</tr>
</tbody>
</table>

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

**Type of well**: Drilled

**Equipment used**: Churn drill

**Water use**: Domestic

**Groundwater Details**

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot; I.D.</td>
<td>6&quot; I.D.</td>
<td>11'4&quot;</td>
<td>57'144&quot;</td>
</tr>
</tbody>
</table>

**Perforations**

<table>
<thead>
<tr>
<th>Size</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>none</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>

**Static Water Level for non-flowing well**: 1218 feet

**Shut-in Pressure for Flowing Well**: 20 feet

**Pumping Water Level**: 20 feet with slurry

**Discharge in gal. per min. of flowing well**: 50 gal. per minute

**How Tested**: Constant rate

**Length of Test**: 3 hours

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

**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**: 87

**Driller's Signature**: Glenn Camp

**Date**: 2/5/71
Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962
(Under Chapter 237, Montana Session Laws, 1961)

Owner: J.H. Probst  
Address: Rt 1, Missoula

Driller: Glenn Camp  
705 Alder  
Address: Missoula, Mont

Date of Notice of appropriation of groundwater...

Date well started: 5/11/67  
Date completed: 5/13/67

Type of well:
- Churn drill

Equipment used:
- Drill (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.

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Cable</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>8&quot;</td>
<td>6&quot; I.D.</td>
<td>6&quot; above G.L.</td>
<td></td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td>17&quot; to 5 ft</td>
<td>6 ft</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well: 12 feet.

Shut-in Pressure for Flowing Well: 10 psi.
Pumping Water Level: 30 feet.

Discharge in gal. per min. of flowing well: 4 hours.

How Tested: Compressor

Length of Test: 4 hours

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

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

Show exact depth of bottom.

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).

License No: 7
Driller's License Number

Driller's Signature

42510

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.
WATER WELL LOG

Owner: Harry Remmick  Address: 1175 Newell  Remaining:

Driller: John Schwartz  Address:

Date Started: June 5, 1959  Date Completed: June 9, 1959

Location: Sec. 17, T. 13 N., R. 2 W., 1/4 sec. 6, T. 13 N., R. 2 W.

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

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

Industrial [ ]  Drainage [ ]  Other:

Casing: ft. to ft. Type  Size

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:

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

Pumping water level: feet at gal. per min.

How tested:  Length of test:

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 6</td>
<td>Rock</td>
</tr>
<tr>
<td>6 - 18</td>
<td>Sand and gravel</td>
</tr>
<tr>
<td>18 - 94</td>
<td>Ground water</td>
</tr>
<tr>
<td>94 - 17</td>
<td>Ground 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 15, 1963
Owner: R. W. Steele
Address: Missouri, Mont.

Contractor (if any) __________________________
Address of Contractor __________________________
Date Started: June 15, 1963 Date Completed: July 1, 1963

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

Use of Slough for Irrigation
Purposes on land recently acquired
Depth of slough at origin 2 feet

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

For sprinkler system 3” Pipe
During summer months approximately Twice a week during summer

Signature of Owner: __________________________
Date: July 1, 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.
MONTANA BUREAU OF MINES AND GEOLOGY
State Engineer, Butte, Montana

WATER WELL LOG

Owner: Robert W. Steele
Address: Target Range 8th
Driller: John Farrell
Address: Arlee

Date Started: July 15, 1959
Date Completed: July 20, 1959
Location: Sec. 7 T. 13N R. 20W ¼ sec.

Type of well: Domestic
Equipment used: Drill

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

Casing:
- 0 ft. to 6 ft. [X]
- Type: Steel
- Size: 5"
- 6 ft. to 8.5 ft.
- Type:
- Size:
- 8.5 ft. to
- Type:
- Size:
- Perforated or Screened: [ ]
- to ft.
- Fl.

Type of screen or perforations:

Static Water level, for non-flowing well: 10 feet.
Shut-in pressure, for flowing well: July 20, 1959
Pumping water level: 50 feet at 20 gal. per min.

How tested: [ ]
Length of test: 144

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 to 6</td>
<td>Pit</td>
</tr>
<tr>
<td>6 to 22</td>
<td>Sand gravel</td>
</tr>
<tr>
<td>22 to 83</td>
<td>Fine sand, water</td>
</tr>
<tr>
<td>83 to 85</td>
<td>Sand gravel, 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)

Robert Wilbur Steele
(Name of Appropriator)
Route # 1
(Town)
Missoula
(Address)

1. 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 use, stock use, and irrigation.

3. Date or approximate date of earliest beneficial use: June 1952; and has been continuous ever since. Irrigation use has steadily increased since well was drilled.

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: 30 acres around the house site that is located in Sec. 7, T. 13 N., R. 20 W.,

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: Deep well pump 1 H.P. motor, Electric.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: June 1952 for deep well, August 1963 for pumping out of slough located in same ten acre tract described above.

8. The depth of water table: approximately 20 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 7 inch, 70 feet deep, slough (partly fed by ground water) pump on slough is 1/2 H.P. 100 gallons per minute.

10. The estimated amount of groundwater withdrawn each year: average household plus irrigation for 1 acre.

11. The log of formations encountered in the drilling of each well if available: round gravel to a depth of 13 feet, then very fine sand or silt to a depth of 60 feet, then substantial gravel where clear water was found. Well had to be driven below the fine sand and silt to obtain clear water.

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

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

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

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

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

Copy #2
I received and filed this Instrument for record on the 3rd day of December, A.D. 19----, at ---- o'clock A.M., permanent files of Missoula County, State of Montana.
Witness my hand:

[Signature]

By: [Signature]

Recorder

Recd 9--. 19----.

[Signature]
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL
Developed after January 1, 1962
(Under Chapter 237 Montana Session Laws, 1961, as amended)

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

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner</td>
<td>John Doe</td>
</tr>
<tr>
<td>Address</td>
<td>Montana, MT</td>
</tr>
<tr>
<td>Date well started</td>
<td>1/6/69</td>
</tr>
<tr>
<td>Date well completed</td>
<td>1/6/69</td>
</tr>
<tr>
<td>Type of well</td>
<td>Driller</td>
</tr>
<tr>
<td>Equipment used</td>
<td>Driller</td>
</tr>
<tr>
<td>Water Use</td>
<td>Domestic ○ Municipal ○ Stock ○ Irrigation ○</td>
</tr>
<tr>
<td>Industrial ○ Drainage ○ Other ○ Garden/Lawn ○</td>
<td></td>
</tr>
<tr>
<td>*Describe use: Use if used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other date (i.e. Lot, Block and Addition).</td>
<td></td>
</tr>
</tbody>
</table>

**ESTIMATED ANNUAL WITHDRAWAL**

<table>
<thead>
<tr>
<th>Size of Pipe (In.)</th>
<th>Size and Weight of Chisel</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>4&quot; x 10+2</td>
<td>-54</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/4 x 11</td>
<td>3/4 x 11</td>
<td>-50</td>
<td>-54</td>
<td></td>
</tr>
</tbody>
</table>

Static water level: 18 ft.
Pumping water level: 20 ft.

*Measured from ground level.
Well developed by pumping for 125 hours.

Power: Pump <gradient>
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: [Signature]
Driller's Address: Montana, MT
License No.: 238

Show exact depth of bottom: -54
I received and filed this instrument for record on the 25 day of June, 1971.
At 10:15 a.m., permanent file of Missoula County, State of Montana.
Witness my hand:

Dorothy L. Head, County Recorder
By:in the Office of Deputy
Fee S 2.00 -9 Paid
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

Owner: George Temple  
Address: Butte, MT

File: 333826  
Date well started: 5/25/1973  
Date well completed: 5/31/1973

Type of well: Driven  
Equipment used: Churn drill

Water Use: Domestic  
Industrial  
Drainage  
Other  

*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).

Estimation of annual withdrawal:

<table>
<thead>
<tr>
<th>Size of Hole</th>
<th>Size and Weight of Drilling</th>
<th>Feet</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>4/4 x 6 x 2</td>
<td>-39</td>
<td>3/4 x 6&quot; x 34</td>
</tr>
</tbody>
</table>

Static water level: 18 ft.  
Pumping water level: 20 ft.  
50 gpm at 20 feet pumping well.

*Measured from ground level.  
Well developed by [Company] for 425 hours.

Power: [Type]  
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: George Temple  
Driller's Address: Butte, MT

License No.: 236  
Show exact depth of bottom
**STATE OF MONTANA**  
**ADMINISTRATOR OF GROUNDWATER CODE**  
**MONTANA WATER RESOURCES BOARD**

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

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

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

---

**Owner:** Yangstemple  
**Address:** Box 1 Big Flt  
**Missoula, Mont.**

Date well started: 4/1/69  
**Date well completed:** 6/1/69

**Type of well:** Drilled  
(Estate, driven, bored or drilled)

**Equipment used:** Chum drill, rotary or other

**Water Use:** Domestic □ Municipal □ Stock □ Irrigation X  
Industrial □ Drainage □ Other □ Garden/Lawn □

*Describe__________________________________________*

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

---

**ESTIMATED ANNUAL WITHDRAWAL**

<table>
<thead>
<tr>
<th>Size of Well Drilled</th>
<th>Size and Depth of Casing</th>
<th>From</th>
<th>To</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;&quot;</td>
<td>8&quot; x 6&quot;</td>
<td>-28</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Static water level:** 3' ft.  
**Pumping water level:** 9' ft.  
*Measured from ground level.

Well developed by **pumping**...

Power: **185 H.P.**

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:** Yangstemple  
**Driller’s Address:** Box 394 Flt

License No. 238

---

**Top of Ground**

<table>
<thead>
<tr>
<th>From (Ft.)</th>
<th>To (Ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>18</td>
</tr>
<tr>
<td>12</td>
<td>20</td>
</tr>
<tr>
<td>14</td>
<td>22</td>
</tr>
<tr>
<td>22-28</td>
<td></td>
</tr>
</tbody>
</table>

---

**Show exact depth of bottom**

---

54078
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL
Developed after January 1, 1962
(Under Chapter 237 Montana Session Laws, 1961, as amended)

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

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

Owner: ____________________________
Address: ____________________________

Date well started: 3/1/73
Completed: 3/4/73

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

Equipment used: ________________
(Cham drill, rotary or other)

Water Use: Domestic □ Municipal □ Stock □ Irrigation □
Industrial □ Drainage □ Other □* Garden/Lawn □

*Describe ________________

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

ESTIMATED ANNUAL WITHDRAWAL

<table>
<thead>
<tr>
<th>Date</th>
<th>Size of Hole</th>
<th>Weight of Casing</th>
<th>E (Ft)</th>
<th>Preservations</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-11</td>
<td>3/4X6X9+2</td>
<td>-39</td>
<td>3/4X6X9+2</td>
<td>-39</td>
</tr>
</tbody>
</table>

Pumping water level: 18 ft.
Static water level: 18 ft.

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

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

Driller's Signature: ____________________________
Driller's Address: ____________________________

License No. ________________

County: Missoula

Show exact depth of bottom

54079
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1953

(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: 
Address: 

Date well started: 
Completed: 

Top of Ground (Eve. above sea level)

<table>
<thead>
<tr>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>GRAVEL &amp; SAND</td>
</tr>
<tr>
<td>14</td>
<td>CLAY</td>
</tr>
<tr>
<td>16</td>
<td>GRAVEL &amp; SAND</td>
</tr>
<tr>
<td>16 30</td>
<td>SAND &amp; GRAVEL</td>
</tr>
<tr>
<td>20</td>
<td>CLAY</td>
</tr>
<tr>
<td>20 20</td>
<td>GRAVEL &amp; SAND</td>
</tr>
<tr>
<td>29 39</td>
<td>GRAVEL</td>
</tr>
</tbody>
</table>

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

Driller's Signature: 
Driller's Address: 

LICENSE NO. 238
I received and filed this Instrument for record on the 25 day of May, 1973 at 12:30 p.m., pursuant to the laws of Missoula County, State of Montana.
Witness my hand:
Dorothy L. Head, County Recorder
By: D. A. M. Deputy
Fee $.20.00 Paid.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

Owner

Address

Montana, Mont.

Date well started

3/10/73

3/17/73

Type of well

Drilled

Equipment used

Drill

Water Use

Domestic □  Municipal □ Stock □ Irrigation □

Trailer Court □ 3 Well (Drawdown)

Industrial □  Drainage □ Other □  Garden/Lawn □

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL

Size of Well (feet)

Size and Shape of Casing (feet)

Perforations

Kind Size From To

4\% X 6" 34 39

Static water level 19 ft.

Pumping water level 19 ft.

at 126.4 gallons per minute, measured 60 minutes after pumping began.

*Measured from ground level.

Well developed by

Power

Remarks: Gravel packing, cementing packers, type of shutoff

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.

Each small square represents 40 acres.

Driller’s Signature

Driller’s Address

Montana, Mont.

LICENSE NO. 328

39 Show exact depth of bottom

5/4/80
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL
Developed after January 1, 1962
(Under Chapter 237 Montana Session Laws, 1961, as amended)

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

Please answer all questions. If not applicable, so state. Otherwise the form may be returned.

Owner: George Stephen
Address: 189-Big-467

Date well started: June 1, 1961
Date completed: June 25, 1973

Type of well: Dug
Equipment used: Drill

Water Use: Domestic

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

ESTIMATED ANNUAL WITHDRAWAL

<table>
<thead>
<tr>
<th>Depth (Ft)</th>
<th>Weight (Ft)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>39</td>
<td>39</td>
<td>39</td>
</tr>
</tbody>
</table>

Static water level: 18 ft.
Pumping water level: 32 ft.

Power: 1.5 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: George Stephen
Driller's Address: 189-Big-467
LICENSE NO. 238
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL
Developed after January 1, 1962
(Under Chapter 237 Montana Session Laws, 1961, as amended)

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

Owner

Address

Date well started

Date well completed

Type of well

Equipment used

Water Use:

USE:

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

ESTIMATED ANNUAL WITHDRAWAL

Top of Ground

<table>
<thead>
<tr>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.29</td>
<td>SANDY SOIL</td>
</tr>
<tr>
<td>1.2</td>
<td>SANDY GRAVEL</td>
</tr>
<tr>
<td>1.8</td>
<td>CLAY</td>
</tr>
<tr>
<td>18.2</td>
<td>SANDY GRAVEL</td>
</tr>
<tr>
<td>18.5</td>
<td>CLAY</td>
</tr>
<tr>
<td>20.2</td>
<td>SANDY GRAVEL</td>
</tr>
<tr>
<td>28.39</td>
<td>GRAVEL</td>
</tr>
</tbody>
</table>

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

Driller’s Signature

Driller’s Address

Show exact depth of bottom

57063
<table>
<thead>
<tr>
<th>Owner</th>
<th>Kenneth Hayes</th>
<th>Address</th>
<th>620 S 5th W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller</td>
<td>John Farrell</td>
<td>Address</td>
<td>Arlee</td>
</tr>
<tr>
<td>Date Started</td>
<td>Sept 20, 1988</td>
<td>Date Completed</td>
<td>Sept 25, 1988</td>
</tr>
<tr>
<td>Location:</td>
<td>Sec. 9, T. 13, R. 26, 1/4 sec. 7</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Type of well: [ ] Dug, [ ] driven, [ ] bored, [x] drilled  
Equipment used: [ ] Churn drill, [ ] rotary, [ ] other

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

Casing:  
8 ft. to 47 ft. Type: Black  Size: 5"

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

Type of screen or perforations:

Static Water level, for non-flowing well: 12'

Shut-in pressure, for flowing well: 50 lb./sq. in. on: (date)

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

How tested: pump

Length of test: 5 hrs.

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>From 0 to 5</td>
<td>Concrete pitted</td>
</tr>
<tr>
<td>5 to 47</td>
<td>Sandstone</td>
</tr>
<tr>
<td>47 to 17</td>
<td>Gravel, boulder</td>
</tr>
<tr>
<td>17 to 47</td>
<td>Water sand, gravel</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. GEORGE DUSSEUIL, of Missoula
   (Name of Appropriator)
   State of Montana
   (Town)
   County of Missoula
   (Address)

   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. Domestic and irrigation

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been. 1958 continuous. Previous well was surface and constructed in 1878.

   4. The amount of groundwater claimed (in miner's inches or gallons per minute). 25 gallons minute

   5. If used for irrigation, give the acres 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.

   l.h.p. electric motor and pump

   7. The location of each well or other works for withdrawal of groundwater.

   March, 1958 - commenced and completed

   8. The depth of water table. 6 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-inch-casing - 97-feet-deep

   10. The estimated amount of groundwater withdrawn each year. 300,000-gallons

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

   gravel for about 10 feet; 15 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.
Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962
(Under Chapter 237, Montana Session Laws, 1961)

Owner: [Name]
Driller: [Name]
Address: [Address]

Date of Notice of appropriation of groundwater: [Date]
Date well started: [Date]
Date completed: [Date]

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

Water use: [Type of Use]

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

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td></td>
<td>0</td>
<td>46&quot;</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well: [Feet]
Shut-in Pressure for Flowing Well: [Feet]
Pumping Water Level: [Feet]

Discharges in gal. per min. of flowing well: [Volume]

How Tested: [Method]
Length of Test: [Duration]
Remarks: [Information]

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: [Number]
Driller's Signature: [Signature]

JUN 15 1967

File No.: [Number]

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: [Name]
Driller: [Name]
Address: [Address]

Date of Notice of appropriation of groundwater: [Date]
Date well started: [Date]
Date completed: [Date]

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

Water use: [Type of Use]

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

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td></td>
<td>0</td>
<td>46&quot;</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well: [Feet]
Shut-in Pressure for Flowing Well: [Feet]
Pumping Water Level: [Feet]

Discharges in gal. per min. of flowing well: [Volume]

How Tested: [Method]
Length of Test: [Duration]
Remarks: [Information]

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: [Number]
Driller's Signature: [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)

**Owner:** Ed Lowe  
**Route:** 1, Big Flats  
**Address:** Missoula

**Driller:** OKO DRILLING  
**Address:** Box 670, Missoula

---

**6-10** Sand and gravel  
**9** Static water level

**10-31** Sand, gravel and water

**31-50** Sand, clay and water  
**50-53** Clay  
**53-94** Silty sand and water  
**94-96** Sand, gravel and water  
**96** Exact depth of bottom

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

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**Static Water Level for non-flowing well**  
**Shut-in Pressure for flowing well**  
**Pumping Water Level**  
**Discharge in gal. per min. of flowing well**

---

**Sealer**  
**Length of Test:** 3 hours

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**Remarks:** (Gravel packing, cementing, pack-off, type of shut-off)  
**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.**

---

Driller’s License Number

Charles F. Holmquist  
Driller’s Signature  
5-7-73

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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 Rt. #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, 1962, as follows:

2. The beneficial use on which the claim is based
   - Household, Livestock, and Irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. First used approximately 1883, used continuously until 1954 then intermittently

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. 10 acres, Sec. 3, T. 13, R. 20
   - Marguerite L. Miller

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

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

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 hand excavated approximately 1883, Other information unavailable

10. The estimated amount of groundwater withdrawn each year
    - 100,000 gallons yearly

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

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 3d day of June, 1903, of full title. All permanent files in Missoula County, State of Montana. Witness my hand:

MAURICE K. KEANE, County Recorder
By: A. N. . . . . Deputy

Fee $6.00
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

STATE ENGINEER

1. Margueritte L. Miller, of Rte. #2, Grass Valley, Missoula, Montana, have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

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<th>N</th>
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<th>S</th>
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<td></td>
</tr>
</tbody>
</table>

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: Drilled 1954, used daily since.

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: 10 acres, NE. 1/4, Sec. 8, T.13 R. 20, Kona Ranch, Margueritte L. Miller.

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: Well drilled in 1954. Other information unavailable.

8. The depth of water table: 15 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, 6 inch diameter, 30 feet in depth, Pump is a jet type pump, electrically driven.

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

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: Margueritte L. Miller
Date: November 27, 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.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Maria L. Miller, of Rt. #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, 1962, as follows:

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

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been. Well driven in 1950. Used daily since.

   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. Not applicable

   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. Well driven in 1950. Other information unavailable

   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 driven, 15 feet in depth. Pump is a jet type electrically driven

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

   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

   Date

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

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

   Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology and quadruplicate for the Appropriator.
I certify that the following instrument was recorded in the records of the office of the Recorder of Nuuents County, State of Montana, at the time and place stated herein. Witness my hand.

MARTIN S. BRNELL, Recorder

[Signature]

F. J. J. [Signature]

Filed 4-1-05.
Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 337, Montana Session Laws, 1961)

Owner: Karl + Pia Popczyk
Address: R1, Big Flat, Missoula

Driller: Diana R. Lange
Address: R1, Missoula

Date of Notice of appropriation of groundwater: Oct. 1966
Date well started: Sept. 1966

Type of well: dug
Equipment used: Recker

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

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

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>Feet</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>5'</td>
<td>Cement</td>
<td>0'</td>
<td>15'</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well

Shut-in Pressure for Flowing Well:

Pumping Water Level at 28 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested: Pump

Length of Test: 2 years

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

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

Will irrigate 8 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, one copy to be retained by driller.

Owner + I did work together

Driller's License Number

Driller's Signature: 451207