<table>
<thead>
<tr>
<th>Field</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>County</td>
<td>Montpelier</td>
</tr>
<tr>
<td>Date Completed</td>
<td>Sept. 6, 1961</td>
</tr>
<tr>
<td>Date Started</td>
<td>Aug. 29, 1961</td>
</tr>
<tr>
<td>Location</td>
<td>Sec. 13, T. 9N., R. 31E, 1/4 sec. SW 4TH</td>
</tr>
<tr>
<td>Owner</td>
<td>§ 27</td>
</tr>
<tr>
<td>Driller</td>
<td>Price and Lindsey</td>
</tr>
<tr>
<td>Address</td>
<td>Glancy, Mont.</td>
</tr>
<tr>
<td>Equipment used</td>
<td>Churn drill</td>
</tr>
<tr>
<td>Water use</td>
<td>Domestic, Irrigation</td>
</tr>
<tr>
<td>Casing</td>
<td>16&quot; above ft. to 57.6&quot; ft.</td>
</tr>
<tr>
<td>Casing</td>
<td>14.9 ft. to 131 ft.</td>
</tr>
<tr>
<td>Perforated or Screened</td>
<td>S to F, Ft. to Ft.</td>
</tr>
<tr>
<td>Type of screen or perforations</td>
<td></td>
</tr>
<tr>
<td>Static Water level, for non-flowing well</td>
<td>58 feet</td>
</tr>
<tr>
<td>Shut-in pressure, for flowing well</td>
<td>lb./sq. in. or (date)</td>
</tr>
<tr>
<td>Pumping water level</td>
<td>30 - 40 gal. per min.</td>
</tr>
<tr>
<td>How tested</td>
<td>1 1/2 hrs.</td>
</tr>
<tr>
<td>Remarks (Gravel packing, cementing,</td>
<td></td>
</tr>
<tr>
<td>packers, type of shut-off, depth of shut-off)</td>
<td></td>
</tr>
<tr>
<td>Depth, feet</td>
<td>Description of Material Drilled</td>
</tr>
<tr>
<td>------------</td>
<td>---------------------------------</td>
</tr>
<tr>
<td>6</td>
<td>Soil same, sharp gravel</td>
</tr>
<tr>
<td>5</td>
<td>Gray clay same, sharp gravel</td>
</tr>
<tr>
<td>16</td>
<td>Limestone clay</td>
</tr>
<tr>
<td>20</td>
<td>Clay, same, sharp gravel</td>
</tr>
<tr>
<td>40</td>
<td>Tight, strata limestone</td>
</tr>
<tr>
<td>65</td>
<td>Soft limestone, same clay</td>
</tr>
<tr>
<td>75</td>
<td>Brown clay</td>
</tr>
<tr>
<td>81</td>
<td>Tight, limestone, same clay</td>
</tr>
<tr>
<td>108</td>
<td>Alternate, shallow strata of soft + tight</td>
</tr>
<tr>
<td>120</td>
<td>Bleeky limestone, clay filled veins</td>
</tr>
<tr>
<td>130</td>
<td>Very tight, clean blue limestone</td>
</tr>
<tr>
<td>130 - 131</td>
<td>Soft, seepstone, like material</td>
</tr>
</tbody>
</table>

Date: July 28th, 1955
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. PERMANENTE CEMENT COMPANY
(Name of Appropriator) of
(Montana City)
(Address)
(Town)
County of Jefferson 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: test well for production of Portland cement and consumption by plant operating personnel.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: December 20, 1961; tested at 500 gallons per minute.

4. The amount of groundwater claimed (in miner’s inches or gallons per minute): 500 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: Pump E125, 250, N24, 700.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: December 11, 1961 and December 20, 1961, respectively.

8. The depth of water table: 85 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 inches diameter x 100 feet deep.

10. The estimated amount of groundwater withdrawn each year: 175 x 60 x 24 x 365 = 90,000,000 gallons per year.

11. The log of formations encountered in the drilling of each well if available: See EXHIBIT A which is attached and made a part hereof.

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

PERMANENTE CEMENT COMPANY

Signature of Owner: J.M. Gorrette, Vice President, Oper.
Date: January 15, 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.
0 to 35 ft.— Locag gravel and boulders.— Not tested

Did test this area as it might draw water from

surface.

25 to 34 ft.— Bed rock, brown clay & hard lime rock (no water)

34 to 35 ft.— Blue clay, — No water

35 to 44 ft.— Brown clay and broken lime rock, 50 Gals. per Min.

Tested with bailer.

44 to 65 ft.— Brown clay, — No water

65 to 80 ft.— Brown limestone, { Semi decomposed}

50 Gal. per. Min. No drawdown

80 to 94 ft.— Broken up lime rock, 50 Gal. per. min. {No D. D.}

94 to 100 ft.— Hard Limestone, — 50 Gals. per. min. {No D. D.}

EXHIBIT A
RECORDE'S OFFICE
Jefferson County, Montana

Filed for record this 31st day of June
A.D. 1942 at 9 o'clock A.M.

[Signature]

[Note: Other information not legible]
### Well Details

**Owner:** PERMANENT CEMENT  
**Address:** Oakland, California

**Driller:** PRICE & LINDSAY  
**Address:** CHANZ, MONTANA

**Date Started:** DEC. 6, 1961  
**Date Completed:** DEC. 19, 1961

**Location:** Sec. T R  
**R:** 4 sec.

#### Type of Well
- **Type:** Dug, driven, bored, or drilled  
- **Equipment:** Churn

#### Water Use
- Domestic  
- Municipal  
- Stock  
- Irrigation  
- Industrial  
- Drainage  
- Other:

#### Casing
- Type:  
- Size:  

#### Perforated or Screened
- Type:  
- Size:  

#### Static Water Level
- For non-flowing well: 10 feet.

#### Shut-in Pressure
- For flowing well: 60 lb/sq. in.

#### Pumping Water Level
- 60 feet at 40 gallons per minute.

#### How Tested
- Pump and Air

#### Length of Test
- 14 hours.

#### 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>From</td>
<td>To</td>
</tr>
<tr>
<td>0</td>
<td>15</td>
</tr>
<tr>
<td>15</td>
<td>34</td>
</tr>
<tr>
<td>34</td>
<td>35</td>
</tr>
<tr>
<td>35</td>
<td>44</td>
</tr>
<tr>
<td>44</td>
<td>65</td>
</tr>
<tr>
<td>65</td>
<td>80</td>
</tr>
<tr>
<td>80</td>
<td>94</td>
</tr>
<tr>
<td>94</td>
<td>100</td>
</tr>
</tbody>
</table>

8538
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, to be retained by driller.

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

Owner: Mr. Harold Barry
Address: 219 West Main Street

Date well started: June 14, 1922
completed: June 15, 1922

Type of well: Drilled
Equipment used: Rotary

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: 60,000

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Collar</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>170</td>
<td>0</td>
<td>18</td>
<td></td>
</tr>
</tbody>
</table>

4" plastic liner

Static water level: 60 ft.
Pumping water level: 80 ft.
at 7 gallons per minute;
measured 180 minutes after pumping began.

*Measured from ground level.
Well developed by □ for □ hours.
Power: □ 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: Wesley Lindley
Driller's Address: Madison, Montana

LICENSE NO. 68

Show exact depth of bottom

52.960
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

DRILLER'S LOG

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

Prepared 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: Paul A. Beaulier
Address: Box 102 Star Rte
M. C. Clancy, Montana

Date well started: April 19, 1973
Completed: about 1973

Type of well: Drilled
Equipment used: 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).

ESTIMATED ANNUAL WITHDRAWAL: 3,000,000 gallons per year.

PERFORATIONS

6 5/8" casing

Top of Ground (Elev., above sea level)

<table>
<thead>
<tr>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>_______</td>
<td>_______</td>
</tr>
</tbody>
</table>

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

*Measured from ground level.

Well developed by: _______ hours.

Power: _______ 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: /s/ Walter Riddick, Edna
Driller's Address: _______ LICENSE NO.: _______ SHOW EXACT DEPTH OF BOTTOM

52.895
Notice of Completion of Groundwater Appropriation by Means of Well

Under Chapter 237, Montana Session Laws, 1961

Notice of Appropriation of Groundwater by Means of Well

Owner: Robert Swalley
Address: Box 1074, Helena

Date of Notice of Appropriation of Groundwater: Month 16 Dec 1963

Date well started: April 18, 63 Date Completed: April 19, 63

Type of well: Drilled
Equipment Used: Churn

Static Water Level for non-flowing Well: 60 feet
Shut-in Pressure for Flowing Well: Not determined
Pumping Water Level: 70 feet at 15 gal, per minute
Discharge in gal, per min. of flowing well: 6

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other pertinent information, including number of acres irrigated, if used for irrigation) All controls located at well sight. Piped to dwelling about 850 feet east.

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

1. Robert D. Quaintance
   of Box 1074
   Helena
   (Name of Appropriator)
   (Address) (Town)

   County of Lewis and Clark
   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...

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, 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)

<table>
<thead>
<tr>
<th>Robert D. Owaltney</th>
<th>Box 107k, Helena, Montana</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Name of Appropria)</td>
<td>(Address) (Town)</td>
</tr>
<tr>
<td>County of Jefferson</td>
<td>State of Montana</td>
</tr>
<tr>
<td>have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:</td>
<td></td>
</tr>
</tbody>
</table>

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

3. Date or approximate date of earliest beneficial use: April 1922

4. The amount of groundwater claimed (in inches or gallons per minute): 5 GPM

5. If used for irrigation, give the acreage and description of the lands to which water has been supplied 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: Electric Pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Unknown. About 1922

8. The depth of water table: 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: Dig well 4 feet square and 40 feet deep.

10. The estimated amount of groundwater withdrawn each year: 2,700,000 Gals per year.

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

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record: This well is cemented up for most of the way.

Signature of Owner: Robert D. Owaltney
Date: 16 Dec. 1983

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology, and quadruplicate for the Appropriate.
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: Domestic □ Municipal □ Stock □ Irrigation □

Industrial □ Drainage □ Other □ Garden/Lawn □

**Describe** 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>Site of Field</th>
<th>Row and Page of Code</th>
<th>Foot</th>
<th>Size (in)</th>
<th>Depth (ft.)</th>
</tr>
</thead>
</table>

SRAF water level ________________________ ft.*
Pumping water level ____________________ ft.*
at ___________ gallons per minute, measured ___________ minutes after pumping began.

*Measured from ground level.
Well developed by ____________________ for ___________ hours.
Power: ___________ HP

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

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

EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature

Driller's Address

LICENSE NO. ___________
File No. T 2 N. R 3 W.

DUPLICATE

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. JOHN W. MILLER
(Name of Appropriator) of East Helena
(Address) (Town)
County of Jefferson 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: well for domestic and irrigation purposes.

3. Date or approximate date of earliest beneficial use: and how continuous the use has been: November 1958.

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 20 inches or 630 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 - 1/16th of SE 1/4 of Section 14, Township 2 N., Range 1 W.

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

7. The date of commencement and completion of the construction of the well, wells or other works for withdrawal of groundwater: April 1958.

8. The depth of water table: 9 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: Round about 5 feet in diameter and fifteen feet deep about seven feet of water in bottom of well.

10. The estimated amount of groundwater withdrawn each year: about 20 acre feet.

11. The log of formations encountered in the drilling of each well if available: None available, but gravel to bed rock.

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: JOHN W. MILLER
Date: March 19, 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 School of Mines 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
Name: Norman Bues
Address: Montana City

### For Administrator's Use
File: 946.376
June 29, 1971

### Date well started
GW 1
March 1, 1971

### Date well completed
Chilled
March 5, 1971

### Type of well
Chilled

### Equipment used
Churn & Rotary

### Water Use
Domestic [X] Municipal [ ] Stock [ ] Irrigation [ ]

### 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).

### ESTIMATED ANNUAL WITHDRAWAL
60,000

### Top of Ground

<table>
<thead>
<tr>
<th>From (ft)</th>
<th>To (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FROM (ft)</th>
<th>TO (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 x 4</td>
<td>200</td>
</tr>
<tr>
<td>216</td>
<td></td>
</tr>
</tbody>
</table>

### Static water level
180 ft.

### Pumping water level
80 ft.

### measured gallons per minute

### measured minutes after pumping

### Power
Pump: HP

### 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.

Driller's Signature: Shelley Lindsey

Driller's Address: Shelly Lindsey

LICENSE NO.: 38

Show exact depth of bottom

15581
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:** Mr. Richard Gross

**Address:**

**Date well started:** August 3, 1971

**Date well completed:** August 6, 1971

**Type of well:** Drilled

**Equipment used:** Rotary

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

**Estimate annual withdrawal:**

---

**Static water level:** 321.00 feet

**Pumping water level:** 290.00 feet

**Power:**... 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:** O'Leary Contracting Company

**Driller's Address:** 2804 Harvard Ave.

**Butte, Montana 59701**

---

**License No.:** 8

---

**Top of Ground:**

<table>
<thead>
<tr>
<th>From Fto E</th>
<th>To Fto W</th>
</tr>
</thead>
<tbody>
<tr>
<td>0'</td>
<td>20'</td>
</tr>
<tr>
<td>20'</td>
<td>granite</td>
</tr>
</tbody>
</table>

---

**To Be Completed by Driller:**

**List of Completion:**

<table>
<thead>
<tr>
<th>Size</th>
<th>Material</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>PVC</td>
<td>20'</td>
</tr>
<tr>
<td>4&quot;</td>
<td>plastic</td>
<td>204'</td>
</tr>
</tbody>
</table>

---

**Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.**

---

**Driller's Log:**

---

**For Administrator's Use:**

---

**File:** 23-276

---

**Form:** 07/29/71

---

**County:**

---

**License No.:** 204

---

**Show exact depth of bottom:** 204'
**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, state otherwise the form may be returned.

---

**Owner:** Howard Mulligan

Address: Montana City

Date well started: July 10, 1972

Date well completed: July 15, 1972

**Type of well:** Drilled

**Equipment used:** Rotary

**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:** 60,000

---

**PERFORATIONS**

<table>
<thead>
<tr>
<th>Size of Drill Bit</th>
<th>Size and Weight of Bit</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>171b</td>
<td>0</td>
<td>33</td>
</tr>
<tr>
<td>Linear</td>
<td>33</td>
<td>140</td>
<td>Linear</td>
</tr>
</tbody>
</table>

**Top of Ground**

<table>
<thead>
<tr>
<th>From (Feet)</th>
<th>Top of Ground (Elev. above sea level)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>tapoon &amp; granite</td>
</tr>
<tr>
<td>18</td>
<td>Boulders</td>
</tr>
<tr>
<td>35</td>
<td>Semi hard granite</td>
</tr>
<tr>
<td>35</td>
<td>Blue granite</td>
</tr>
</tbody>
</table>

**Static water level:** 23 ft.

**Pumping water level:** 335 ft.

*Measured from ground level. Well developed by air for 3 hours. Power:** 1/2 HP Pump, 1/2 HP Remarke: (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: [Address]

LICENSE NO: 38

[Map of location]

**COUNTY:** Jefferson

**DRILLER'S LOG**

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.
**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**: Mr. John C. Armstrong

**Address**: 123 Main St., Helena, MT

**File No.**: 99952

**Date well started completed**

<table>
<thead>
<tr>
<th>From (Foot)</th>
<th>To (Foot)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/1/72</td>
<td>10/1/72</td>
</tr>
</tbody>
</table>

**Type of well**: Drilled

**Equipment used**: Rotary

**Water Use**: Domestic

**Describe**: Type of well, equipment used, water use, etc.

**Estimated Annual Withdrawal**: 80,000

---

**Driller’s Log**

<table>
<thead>
<tr>
<th>Top of Ground</th>
<th>From (Foot)</th>
<th>To (Foot)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6' 17 1/2 0 21</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Killed Size**: 4" Plastic Liners

**Perforations**: 10 170

---

**Static water level**: 15 feet

**Pumping water level**: 5 feet

**Power Pump HP**: 3.0

**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**: Wally Johnson

**Driller’s Address**: 123 Main St., Helena, MT

**License No.**: 38

---

5/820
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, state, otherwise the
form may be returned.

Owner: JAC.P. TINTNER

Address: PO. BOX 63

Date well started: Max 7-7-72...

Date well completed: Max 16-7-72.

Type of well: Drilled

Equipment used: Rotary

Water Use: Domestic

*Describe

USE: If used for irrigation, industrial, drainage or other, explain

ESTIMATED ANNUAL WITHDRAWAL

<table>
<thead>
<tr>
<th>Size of Dug Hole (In)</th>
<th>Size and Weight of Cylinder</th>
<th>Perforation</th>
<th>Depth (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>1716</td>
<td>33</td>
<td>154</td>
</tr>
</tbody>
</table>

Static water level: 17 ft.

Pumping water level: 18 ft.

100 gallons per minute, measured 100 minutes after pumping begins.

*Measured from ground level.

Well developed by: Chemical... for: 3 hours.

Power: Pump: HP: Remarks: (Gravel parking, cementing, packers, type of shut-off)

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

Each small square represents 40 acres.

Driller's Signature: WENDY P. TINTNER

Driller's Address: MONTANA...
Jefferson County, Montana

Filed for record this 10th day of Dec., 1912.

By County Recorder

By C. A. Mather, Jr.
**STATE OF MONTANA**

**ADMINISTRATOR OF GROUNDWATER CODE**

**MONTANA WATER RESOURCES BOARD**

**NOTICE OF APPROPRIATION OF GROUNDWATER**

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

After filing a notice of appropriation, in order to acquire a right based thereon, the person must, within ninety (90) days, commence actual excavation and diligently prosecute construction of a well and, upon its completion, file a notice of completion with the County Clerk of the county in which the appropriation is located.

Three copies of this notice are to be filed 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 may be returned.

1. **Lowell C. Hanson** ........................................ of Box 762, East Helena, MT.
   (Name of Appropriator) (Address) (Town)

   County of **Lewis & Clark**, 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: Domestic water supply, stock purposes and irrigation of hayland
   (describe lands to be benefited. If for irrigation)

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

   The estimated amount of groundwater to be used annually: Three million gallons

4. The annual period (inclusive dates) of intended use: January 1 to December 31

5. The probable or intended date of first beneficial use: January 1, 1972

6. The probable or intended date of commencement and completion of the well* or wells*: During December, 1971

7. The location, type, size and depth of well or wells contemplated: Located in East 1/4 of the NE 1/4 of the NE 1/4 of Section 25, T9N, R3W. One dug well 8 feet deep.

   One developed spring, 100 feet of infiltration piping, eight feet.

8. The probable or estimated depth of the water-table or artesian aquifer: 25 feet

9. The name, address, and license number of the driller engaged: To be constructed by myself.

10. Give such other similar information as may be useful in carrying out the policy of this act One well will be dug and curbed. A spring will be developed and 100 feet of infiltration pipe installed to trap additional water which will be piped to a storage reservoir. Additional infiltration piping will be installed:

    For Administrator's Use:

   File 95838

   3:00 A.M.

   7:30 A.M.

   10:00 A.M.

   1:00 P.M.

   4:00 P.M.

   7:00 P.M.

   10:00 P.M.

   LOCATE WELL OR OTHER MEANS OF DEVELOPMENT AS ACCURATELY AS POSSIBLE ON THE PLAT.

   Signature of Appropriator: Lowell C. Hanson
   Date: Dec 14, 1971

---

*As defined in the code Sec. 1:127 "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 pressure or by artifically withdrew.
Jed

County Recorder

By: Carl A. Mathias

Re: Date:

For record in the office of:

D. 19

County Recorder

Montana

95848
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL
Developed After January 1, 1962
(Under Chapter 237, Montana Session Laws, 1961, as amended)

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 may be returned.

Owner: Lowell C. Hanson
Address: Box 762, East Helena, Montana
Contractor (if any): Not Applicable
Address of Contractor: Not Applicable
Date Started: Mar. 20, 1971
Date Completed: Dec. 18, 1971

1. Describe means of obtaining groundwater (as by sub-irrigation, developed spring, drains, etc.)
   A developed spring with 100 feet of infiltration line...
   Gravity flow to a storage tank at a second spring.

2. Means of withdrawing water (gravity, pump, canal, etc.)
   Gravity to storage tank, then pumped...

3. Depth of water table: Eight feet...

4. Use of the water: Domestic, stock purposes and irrigation...

5. Amount of groundwater claimed (in miner's inches or gallons per minute): Thirty gallons per minute...

6. If used for irrigation, give number of acres and description of land: Eight acres of hayland...

7. Estimate amount of water used each year: Three million gallons...

8. Month of year spring flows: Flows all twelve months of the year...

Signature of Owner: Lowell C. Hanson
Date: 12-16-71
96119
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
Ben R. Hopkins
Address
1607 E. 6th Ave., Helena, Mont. 59601
Date well started
5-11-73
Date well completed
5-11-73

Type of well
Drilled

Equipment used
Rotary Drill

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

Estimate Annual Withdrawal
80,000 Gallons

Top of Ground

<table>
<thead>
<tr>
<th>From (ft.)</th>
<th>To (ft.)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5</td>
<td>Topsoil</td>
</tr>
<tr>
<td>5</td>
<td>21</td>
<td>Decayed results</td>
</tr>
<tr>
<td>21</td>
<td>100</td>
<td>Blue Granite</td>
</tr>
</tbody>
</table>

STATED ANNUAL WITHDRAWAL
80,000 Gallons

Static water level: Flowing __ ft.

Pumping water level: __ ft.

at: 60 gallons per minute, measured 180 minutes after pumping began.

*Measured from ground level. Well developed by Air for 3 hours.

Power: 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: Terry Lindley
Driller's Address: Cheney, Montana

LICENSE NO. 38

100 feet Show exact depth of bottom

53,334
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 or the County Clerk and Recorder in the county in which the well is located, last copy to be retained by driller.

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

Owner: [Name]
Address: [Address]
Date well started: [Date]
completed: [Date]
Type of well: [Type]
Equipment used: [Equipment]
Water Use: [Use]
*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: [Amount]

| Depth (Ft) | Diameter (In) | Time (Min) | Top of Ground (Ft)
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>19'</td>
<td>0</td>
<td>Topsoil</td>
</tr>
<tr>
<td>5 20</td>
<td>15'</td>
<td>0</td>
<td>Sandstone</td>
</tr>
<tr>
<td>12 20</td>
<td>15'</td>
<td>0</td>
<td>Blue granite</td>
</tr>
</tbody>
</table>

Static water level... 50 ft.
Pumping water level... 3 ft.
at... 3 gal. per minute.
measured/60 minutes after pumping began.
*Measured from ground level.

Well developed by 24 hours.
Power... Pump. HP
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.

Driller's Signature: [Signature]
Driller's Address: [Address]

Show exact depth of bottom

LICENSE NO: [Number]
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, completed
Type of well
Equipment used
Water Use:

*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).

PERFORTIONS

Estimated Annual Withdrawal

Driller's Signature

Driller's Address

LICENSE NO.

Top of Ground

<table>
<thead>
<tr>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static water level
Pumping water level

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

140

Show exact depth of bottom

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: Vincent Amico
Address: Clancy, MT

Date well started: 12-15-69
Date well completed: 12-15-69

Type of well: Drilled
(Equip. driven, bored or drilled)

Equipment used: Churn
(Churn 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: 252,000 gal/yr

<table>
<thead>
<tr>
<th>Net of Diameter (ft)</th>
<th>Rate of Withdrawal (gpm)</th>
<th>From</th>
<th>To</th>
<th>Min</th>
<th>Max</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>19.16</td>
<td>60'</td>
<td>60'</td>
<td>60'</td>
<td>Linear</td>
<td></td>
</tr>
</tbody>
</table>

Static water level: 6 ft
Pumping water level: 20 ft

Well developed by: 60 gallons per minute, measured 60 minutes after pumping

Power: Pump: HP
Remaiks: (Gravel packing, cementing, packers, type of shutoff)

Top of Ground:

<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

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

Driller's Signature: Vincent Amico
Driller's Address: Clancy, MT
License No.: 38

Show exact depth of bottom: 7.3
RECORDER'S OFFICE

Jefferson County, Montana

Filed for record the 29th day of October
A.D. 1917 at 8:00 a.m. in Vol. 26.

By

[Signature]
County Recorder

[Seal]
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: Larry L. & Doris B.
Address: Box 62, Gruber Estates
Culver, Montana

Date well started March 5, 1968
completed March 6, 1968

Type of well Drilled
Equipment used Churn
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). Irrigate yard & garden

ESTIMATED ANNUAL WITHDRAWAL

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>Feet</th>
<th>Perforations</th>
<th>Kind of Liners</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>172b</td>
<td>0</td>
<td>44ft</td>
<td>44 Liners</td>
</tr>
</tbody>
</table>

Static water level __20__ ft.
Pumping water level __30__ ft.
at __12__ gpm measured ____________ minutes after pumping began.
*Measured from ground level.

Well developed by __Boiler__

Power ___________ HP
Remarks: __Gravel packing, cementing, packers, type of shutoff__

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

Static water level __20__ ft.
Pumping water level __30__ ft.
at __12__ gpm measured ____________ minutes after pumping began.
*Measured from ground level.

Well developed by __Boiler__

Power ___________ HP
Remarks: __Gravel packing, cementing, packers, type of shutoff__

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

Driller's Signature ____________________________
Driller's Address ____________________________

LICENSE NO. __38__
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) Address: Location:

Driller: (Name) Address: Location:

Date of Notice of appropriation of groundwater: July 25, 1962
Date well started: July 31, 1962 Date completed: July 20, 1962

Type of well: (Dug, Driven, bored or drilled) (Chimney 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>Max. and Min. Depth of Center</th>
<th>From Foot</th>
<th>To Foot</th>
<th>FROM FEET</th>
<th>TO FEET</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 ft. to 11 ft.</td>
<td>17 19.0 0</td>
<td>21.0 13 14</td>
<td>51 60 60</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well

Shut-in Pressure for Flowing Well

Pumping Water Level

Discharge in gal. per min. of flowing well

How Tested

Length of Test

Remarks: (Gravel packing, cementing, packers, type of shunt, etc.)

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

Driller's Signature

File No. T.

County: E2.
9/8/99

Recorder's Office
Jefferson Co., Missouri

Filed for record this 21st day of Sept., 1899, at 8 o'clock A.M.

Albert A. Rickerson
County Recorder

Fees, $2.00
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, state, otherwise the form may be returned.

Arnold C. Ensuing &
Owner: Michael M. Ensuing
Address: Clancy, Montana

File: 94-524
Date filed: May 23, 1971
11:30 a.m.

Date well started: Dec. 8, 1967
Completed: Dec. 12, 1967

Type of well: Drilled
Equipment used: None

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

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

ESTIMATED ANNUAL WITHDRAWAL

<table>
<thead>
<tr>
<th>Top of Ground</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-6</td>
<td>Gravel &amp; sandstone</td>
<td></td>
</tr>
<tr>
<td>6-36</td>
<td>Clay &amp; gravel</td>
<td></td>
</tr>
<tr>
<td>36-38</td>
<td>Clay</td>
<td></td>
</tr>
<tr>
<td>38-53</td>
<td>Decomposed bedrock</td>
<td></td>
</tr>
<tr>
<td>53-62</td>
<td>Bedrock, semi-hard</td>
<td></td>
</tr>
<tr>
<td>62-68</td>
<td>Hard bedrock</td>
<td></td>
</tr>
</tbody>
</table>

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

Driller's Signature: Vailey Lindsey
Driller's Address: Clancy, Montana

LICENSE NO. 58
Show exact depth of bottom

1 This form must be the original of groundwater appropriation filed Sept. 16, 1963, 474473.
RECORDER'S OFFICE
Jefferson County, Montana

Filed for record this 12 day of May
19__ in Book __, page __.

County Recorder
Fees, $____
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation
Without Well
Developed After January 1, 1962
(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater........ 6-2-76
Owner: Paul & Georgie A. Land Address: 425 Geddes St. Helena
Contractor (If any)........ None
Address of Contractor
Date Started........ 7-1-69 Date Completed........ 8-1-69

1) Describe means of obtaining groundwater (as by sub-irrigation, developed spring, drains, etc.)

Develomed Spring

2) Means of withdrawing water (gravity, pump, canal, etc.)

Gravity

3) Depth of water table

Not Applicable

4) Use of the water

Household & Irrigation

5) Amount of groundwater claimed (in miner's inches, or gallons per minute)

0.6 Gal/Minute

6) If used for irrigation give number of acres and description of land

Yards

7) Estimate amount of water used each year

200,000 Gallons

Signature of Owner

Date........ 7-2-76

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.
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: W. E. Osborne
Address: Clancy, Montana

Driller: Nesley & Dusey
Address: Clancy, Montana

Date of Notice of Appropriation of groundwater: April 6, 1967
Date well started: April 6, 1967
Date well completed: April 8, 1967

Type of well: Drilled (Dug, driven, bored or drilled)
Equipment used: none

Water use: Domestic X Municipal Stock D Irrigation D Industrial D Drainage D Other G

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>PERFORMANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>1716</td>
<td>0</td>
<td>37</td>
<td>none</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well: 35 feet
Shut-in Pressure for Flowing Well: 35 feet
Pumping Water Level: 10 gal. per minute
Discharge in gal. per min. of flowing well: 4 hours

How Tested: pump
Length of Test: 4 hours

See attached sketch of Gruber estate: (Gravel packing, cementing, packers, type of shutoff)

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: 38
Driller's Signature: 42,770
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

## Further Information

**Owner**

Further information was unavailable from driller.

**Driller**

Date of Notice of Appropriation of Groundwater: **Fall 1966**

Date well started: **Fall 1966**, Date Completed: **Fall 1966**

**Type of well:** Drilled

**Equipment Used:** (Charn, drill, rotary or drill)

**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.

---

### Diagram

```
N
W
```

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

Show exact depth of bottom.

- **SE**
- **Scale**: TN 1000

**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).  

---

### Form Fillings

- **Static Water Level for non-flowing Well**:  
- **Shut-in Pressure for Flowing Well**:  
- **Pumping Water Level**: feet, gal. per minute.  
- **Discharge in gal. per min. of flowing well**:  
- **How Tested**:  
- **Length of Test**:  

---

**Remarks:**

- **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 Appropriator.
92721

MONTANA WATER RESOURCES BOARD
RECEIVED
MAR 31 1970
**Notice of Completion of Groundwater Appropriation by Means of Well**  
**DEVELOPED AFTER JANUARY 1, 1962**  
(Under Chapter 237, Montana Session Laws, 1961)

**Owner:**
- Name: [Redacted]
- Address: [Redacted]

**Driller:**
- Name: [Redacted]
- Address: [Redacted]

**Date of Notice of Appropriation of groundwater:** [Redacted]

**Date well started:** Aug 26, 64  
**Date completed:** Aug 28, 64

**Type of well:** [Redacted]  
**Equipment used:** [Redacted]  
**(Dug, Driven, bored or drilled)** (Churn drill, rotary or other)

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

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, 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>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site of Drilled Hole</td>
<td>17/16</td>
</tr>
<tr>
<td>Size and Weight of Cutting</td>
<td>0</td>
</tr>
<tr>
<td>From (Feet)</td>
<td>65</td>
</tr>
<tr>
<td>To (Feet)</td>
<td>1</td>
</tr>
<tr>
<td>Filler Size</td>
<td>2</td>
</tr>
<tr>
<td>From (Feet)</td>
<td>10</td>
</tr>
<tr>
<td>To (Feet)</td>
<td>10</td>
</tr>
</tbody>
</table>

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

** Shut-in Pressure for Flowing Well**
- [Redacted] gal. per minute

**Pumping Water Level**
- 100 feet

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

**How Tested**
- [Redacted]

**Length of Test**
- 3 hours

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

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

![Diagram]

**Show exact depth of bottom.**

---

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

Please answer all questions. If not applicable, so state, otherwise the form will be returned.
Notice of Completion of Groundwater Appropriation by Means of Well

(Develped After January 1, 1966)

(Under Chapter 237, Montana Session Laws, 1961)

Owner: Michael G. N. Address: 1901 Denver

Driller: Peter Lindsay Address: Clark

Date of Notice of Appropriation of groundwater: April 25, 1966

Date well started: April 25, 1966

Date completed: April 27, 1966

Type of well: Drilled

Equipment used: Churn drill

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

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

<table>
<thead>
<tr>
<th>Strata (Elev. above sea level)</th>
<th>Very hard granite</th>
<th>Firm decomposed granite</th>
<th>Loose decomposed granite</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 7 feet</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 - 19 feet</td>
<td>Firm</td>
<td>decomposed granite</td>
<td>Very hard granite</td>
</tr>
<tr>
<td>19 - 24 feet</td>
<td>Firm</td>
<td>granites</td>
<td>Granites</td>
</tr>
<tr>
<td>24 - 27 feet</td>
<td>Very hard granite</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Static Water Level for non-flowing well

10 feet

Shut-in Pressure for flowing well...

Pumping Water Level...

at...

Discharge in...

How Test...

Length of Test...

Remarks: (Gravel packing, cementing, packers, type of shotoff)...

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

Driller's License Number

Driller's Signature