STATE OF MONTANA,

County of Cascade.

I hereby certify that the within instrument was filed in this office on

23rd day of June, 1969

at 3:10 o'clock P.M.

J. L. LENNON
County Clerk and Recorder.

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

Notice of Completion of Groundwater Appropriation by Means of Well
(On Chapter 217, Montana Session Laws, 1961)

Owner: Albert H. Johnson
Address: Great Falls, Mont.
Driller: Thomas A. Thonlin
Address: Great Falls, Mont.

Date of Notice of Appropriation of Groundwater: May 16, 1968
Date well started: May 19, 1968; Date Completed: May 22, 1968

Type of well: Drilled; Equipment Used: Dredge

Water Use: Domestic [ ] Municipal [ ] Other [ ] Irrigation [X]
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>Depth of Bottom Strata</th>
<th>Static Water Level</th>
<th>Shut-in Pressure</th>
<th>Discharge</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 ft.</td>
<td>2 ft.</td>
<td>None</td>
<td>None</td>
<td>84 acres irrigated, if used for irrigation.</td>
</tr>
</tbody>
</table>

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

Commentary:

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.

Driller's License Number
Thomas A. Thonlin
Driller's Signature

4/23/35
STATE OF MONTANA, ss.
County of Cascade.

I hereby certify that the within instrument was filed in this office on

JAN 15 1969

at 11:30 o'clock A.M.

J. L. LENNON
County Clerk and Recorder

By: DEPUTY
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1963
(Under Chapter 237 Montana Session Laws, 1961, as amended)

Earl A. and/or
Pauline N. Johnson

Date of Notice of appropriation of groundwater

Date well started
Date completed

Type of well
Equipment used
Water 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.

Size of Drilled Hole Feet
6-5/8 x 6-5/8

From
0

To
135

Kind of Well
Net

Perforations

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 (e.g., 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, tissues copy to be retained by driller.

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

Sworn to and subscribed before me
this 27th day of June
A. D. 1922, at 2:45 o'clock P. M.

Notary Public for the State of Montana
Reading or Great Falls

A. D. 1922

Driller's License Number

Driller's Signature
STATE OF MONTANA, ss.
County of Cascade.

I hereby certify that the within instrument was filed in this office on

JUN 8 1972

at 2:45 o'clock P.M

J. L. LENNON
County Clerk and Recorder.

By: [Signature]
Deputy
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION 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)

Owner: Joyce H. Johnson
Address: Manchester, Mont.

Driller: Pat Byrne
Address: St. Falls, Mont.

Date of Notice of appropriation of groundwater: 6-30-1969
Date well started: 6-30-1969
Date well completed: 7-2-1969

Type of well: drilled
Equipment used: churn drill

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

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

<table>
<thead>
<tr>
<th>Size of</th>
<th>Size and</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drilled Hole</td>
<td>Weight of Cutting</td>
<td>Feet</td>
<td>Feet</td>
</tr>
<tr>
<td>6-5/8&quot;</td>
<td>6-5/8&quot;</td>
<td>0</td>
<td>160</td>
</tr>
</tbody>
</table>

Perforations: NOT PERFORATED

Static Water Level for non-flowing well 0 feet
Shut-in Pressure for Flowing Well
Pumping Water Level at: 100 gal. per minute
Discharge in gal. per min. of flowing well

Well 35T. 21N. 2E. Indicate location of well and place of use, if possible. Each small square represents 40

Remarks: (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

Driller's Signature

46575
**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:** James L. Long  
**Address:** N 1 Irrt  
**State:** Montana  
**File:** 5490  
**Date well started:** 1-1-17  
**Completed:** 1-21-73

**Type of well:** Drilled  
**Equipment used:** Churn drill, rotary or other

**Water Use:** Domestic ☐  
**Industrial ☐  
**Municipal ☐  
**Stock ☐  
**Irrigation ☐  
**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>Top of Ground</th>
<th>(Elev. above sea level)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>12'</td>
</tr>
</tbody>
</table>

---

**Driller’s Signature:**

---

**Driller’s Address:**

**Great Falls, Montana**

**License No.:** 135

---

**35** Show exact depth of bottom
STATE OF MONTANA, ex. m. 
County of Cascade.

I hereby certify that the within instrument was filed in this office on

MAY 3, 1973

at 10:18 A.M.

J. J. LENNON
County Clerk and Recorder

By R. E. Deitman
Deputy.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

Owner: Elbert Kees
Address: 3409 Central
Sweet Home, Mont.

Date well started: Nov. 5, 1969
GW 1

Date well completed: Nov. 12, 1969

Type of well: Drilled, Driven

Equipment used: Cable Tools

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). None.

ESTIMATED ANNUAL WITHDRAWAL

<table>
<thead>
<tr>
<th>Size of Bore 6&quot;</th>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
<th>Top of Ground (Enter above water level)</th>
</tr>
</thead>
</table>
| 6"             | 14 lbs. per ft            | 200         | None      | None         | Surface 150 ft. 50 ft. 25 ft. 50 ft. 25 ft. 50 ft.| measured 60 minutes after pumping began.

Static water level Surface 150 ft. Pumping water level 50 ft. 25 ft. 50 ft. 25 ft. 50 ft. 25 ft. 50 ft. measured 60 minutes after pumping began.

*Measured from ground level.

Well developed by Driller

Power: None

Remarks: (Gravel packing, cementing, packers, type of shutoff) None

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

Driller's Signature: Thomas E. Franklin

Licence No: 21

Driller's Address: Sweet Home, Mont.

Show exact depth of bottom

51,297
STATE OF MONTANA, ss.
County of Cascade.

I hereby certify that the within instrument was filed in this office on
AUG 3 1 1972

[Signature]
J. L. LENNON
County Clerk and Recorder.

[Signature]
Deputy.
As the Administrator of the Groundwater Code for the State of Montana, please take note of the following special instructions, in order to properly protect your groundwater right.

**Special Instructions:**

Please provide, as indicated in red on the attached form, the complete location of the well by section, township and range.

Thank you.

<table>
<thead>
<tr>
<th>Water Use: Domestic</th>
<th>Municipal</th>
<th>Stock</th>
<th>Irrigation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**USE:** If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition). ...None

**ESTIMATED ANNUAL WITHDRAWAL**

<table>
<thead>
<tr>
<th>Size of Drill</th>
<th>Drill Size</th>
<th>Weight of Cables</th>
<th>Perforations</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>14 lbs.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Static water level**

**Pumping water level**

*Measured from ground level. Well developed by 

**Power**

**Remarks:** (Gravel packing, cementing, packers, type of shutoff) None

**Driller's Signature**

**Driller's Address**

**LICENSE NO. 84**
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: Robert Lummis  
Address: 3409 Central  
Great Falls, Mont.

Date well started: Nov. 5, 1969  
Completed: Dec. 12, 1969

Type of well: Drilled, Driven.  
(Chiselled, bored or drilled)

Equipment used: Cable tool.  
(Chisel, 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). None.

ESTIMATED ANNUAL WITHDRAWAL

<table>
<thead>
<tr>
<th>Size of Well (Feet)</th>
<th>Depth (Feet)</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>14.0</td>
<td>200</td>
<td>None</td>
</tr>
</tbody>
</table>

PERFORATIONS

<table>
<thead>
<tr>
<th>Kind of Perforation</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static water level: Surface...13 ft.  
Pumping water level...60 ft...2.5 gallons per minute, measured 60 minutes after pumping began.

*Measured from ground level. Well developed by: Barber.  
for 8 hours.  
Power: Electric.  
Remarks: (Gravel packing, cementing, packers, type of shutoff) None.

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

Driller's Signature: Thomas G. Treblin  
Driller's Address: Great Falls, Mont.

LICENSE NO.: 24
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 filled 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.

Manchester Cemetery Association
Owner

Address 111 West
Great Falls, Montana

Date well started 3-30-1973
Date well completed 4-5-1973

Type of well Drilled

Equipment used Churn drill

Water Use: Domestic 0 Municipal 0 Stock 0 Irrigation 0 Industrial 0 Drainage 0 Other 0 Garden/Lawn 0

*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 Drilled Hole</th>
<th>Size and Depth of Drilling</th>
<th>From (Ft.)</th>
<th>To (Ft.)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-1/8&quot;</td>
<td>15'15&quot;</td>
<td>0</td>
<td>191</td>
<td>Not perforated</td>
</tr>
</tbody>
</table>

Static water level Artesian ... ft.*
Pumping water level ....... ft.*

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

*Measured from ground level.
Well developed by .... at .... 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

Driller's Address: 2112-76th Ave. South
Great Falls, Montana

LICENSE NO. 115
STATE OF MONTANA, \textit{1st}.
County of Cascade. \textit{2nd}

I hereby certify that the within instrument was filed in this office on

\textbf{APR 11 1913}

\underline{Date}

at \textbf{4:20 \text{o'clock, P.M.}}

\textbf{J. L. LENNON}

County Clerk and Recorder:

\underline{Defender}
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, say so state, otherwise the form may be returned.

Owne L. an/or Ethel M. Flesh

Address

Great Falls, Montana

Date well started

5-16-1973

Date well completed

5-19-1973

Type of well: Drilled

Equipment used: Churn drill

Water Use: Domestic □ Municipal □ Stock □ Irrigation □

*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>Use of Water</th>
<th>Use and Location of Water</th>
<th>From Feet</th>
<th>To Feet</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.5/8&quot;</td>
<td>6.5/8&quot;</td>
<td>0</td>
<td>1.5</td>
<td>Not perforated</td>
</tr>
</tbody>
</table>

Static water level: 4 ft.
Pumping water level: 1.30 ft.

Pumping for 40 minutes at 80 gallons per minute measured minutes after pumping began.

*Measured from ground level.

Well developed by: J.B. Byrne

Power: 0.5 HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

Driller's Signature

Driller's Address: 2112-7th Ave. South

Great Falls, Montana

LICENSE NO. 133

Show exact depth of bottom

53,266
STATE OF MONTANA, Jan.
County of Cascade.

I hereby certify that the within instrument was filed in this office on

MAY 23, 1973

at _______ 10:46 o'clock __ A.M.

J. L. LENNON
County Clerk of the Court.

By. [Signature]

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

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

Driller, and/or Roberta K. Smith

Address: Rt. 1, Box
St. Falls, Mont.

Date well started: 8-24-1972
Date well completed: 8-28-1972

Top of Ground
(El. above sea level)

FORM No. | Top soil | Sandy soil | Sand water | Gravel water
----------|----------|------------|-----------|------------------
4         | 3        | 12         | 25        | 129              |

Type of well: Drilled

Equipment Used: Churn drill

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

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole | Size and Type of Casing | Feet | Perforations | PERFORATIONS
6-7/8" | 6-7/8" | 0 | 133 | Not perforated

Static water level \(6\) ft.
Pumping water level \(25\) ft.

*Measured from ground level.

Well developed by Healler for .8 hour.

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: Dated

Driller's Address: 211 E., Box

LICENSE NO.: 133

Show exact depth of bottom: 133
STATE OF MONTANA, 
County of Cascade. 

I hereby certify that the within instrument was filed in this office on 
JUN 27 1972 

Date 
10:30 o'clock A.M. 

J. L. LENNON 
County Clerk and Recorder.
DECLARATION OF VESTED GROUNDWATER RIGHTS

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

1. Fe. & S., Spencer, of P.O. Box 305, Great Falls, State of Montana

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. March 3, 1959. Continuous

4. The amount of groundwater claimed (in miner's inches per minute) 5 Gals. 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. Artesian with pump for pressure

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. October 14, 1960

8. The depth of water table. 19 ft.

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

10. The estimated amount of groundwater withdrawn each year. Enough for house use and lawn

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. 1/15/62

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology, and quadruplicate for the Appropriator.
STATE OF MONTANA, ex.  
County of Cascade.

Thereby certify that the within instrument was filed in this office on
JAN 2 - "4

8:12 o'clock A.M.

J. L. LENNON  
"County Clerk" the Recorder.

By  
Deputy.
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner: D.L. Spencer, 236 5th Ave., Great Falls, Mont.
Driller: H.M. Franklin, Rt. 2, Great Falls, Mont.

Date Started: Sept. 4, 1957
Date Completed: Sept. 17, 1957
Location: Sec. 35, T. 21 N., R. 65 E., 1/4 sec., E.W., SE.

Type of well: 
Equipment used: 

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

Casing: to ft. 195 ft. Type: Heavy  Size: 5"  TD
Casing: to ft. Type: Size: 
Casing: to ft. Type: Size: 

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

Type of screen or perforations: 

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

Pumping water level feet at g.p.m.
How tested:
Length of test:

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

Casing leakage in acre-feet.
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>Casing down to frac drill</td>
</tr>
<tr>
<td></td>
<td>from loam and quick sand</td>
</tr>
<tr>
<td></td>
<td>Green clay to gravel</td>
</tr>
</tbody>
</table>

---

**Log of Well**

**Location:**

**Date:**

**Time:** 10:30 AM

**Depth:**

**Material:**

**Driller:**

**Inspector:**

**Certified:**
**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.

**Lester H. Stone And/or**

**Jane Stone**

Owner

Address: 


Great Falls

Date well started: 11-12-1970

Date well completed: 11-14-1970

**Top of Ground**

<table>
<thead>
<tr>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>2</td>
</tr>
</tbody>
</table>

**Typ Soil**

1. 20 Sand Water

20 194 Silt

194 198 Sand Gravel Water

**Type of Well Drilled**

Drill, driven, bored or drilled

**Equipment Used**

Churn drill

**Water Use**

Domestic [ ] Municipal [ ] Stock [ ] Irrigation [ ]

Industrial [ ] Drainage [ ] Other [ ] Garden/Lawn [ ]

*Describe...

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

**ESTIMATED ANNUAL WITHDRAWAL**

<table>
<thead>
<tr>
<th>Top of Ground</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.8778</td>
<td>0</td>
<td>198</td>
</tr>
</tbody>
</table>

**PERFORATIONS**

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

**Static water level 8' Above Me**

Pumping water level 10 ft. at 40 gallons per minute, measured minutes after pumping began.

*Measured from ground level.

Well developed by PUMP for 2 hours.

Power: Pump HP

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

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

EACH SMALL SQUARE REPRESENTS 40 ACRES.

**Driller's Signature**

**LICENSE NO. 135**

**Driller’s Address**

Great Falls, Montana

**Show exact depth of bottom**

417 8.54
STATE OF MONTANA, ss.
County of Cascade.

I hereby certify that the within instrument was filed in this office on:

NOV 30 1970

at 12:14 p.m.

J. L. LENNON
County Clerk and Recorder

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

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

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

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

Raymond L. & Virginia L. Todd
Owner

Address
Rs. 1 West
Great Falls, Montana

Date well started... 4-12-1973

Type of well: Drilled

Equipment used: Churn drill

Water Use: Domestic ☐, Municipal ☐, Irrigation ☪

*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 Drilled Hole</th>
<th>Size and Weight of casing</th>
<th>Pier (Feet)</th>
<th>Depth (Feet)</th>
<th>Perforations</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-5/8&quot;</td>
<td>6-5/8&quot; 20#</td>
<td>0</td>
<td>133</td>
<td>Not perforated</td>
</tr>
</tbody>
</table>

Static water level: __________ ft. measured from ground level.

Pumping water level: __________ ft. measured __________ gallons per minute, minutes after pumping began.

Well developed for __________ hours.

Power: __________ HP

Remarks: __________

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

Each small square represents 40 acres.

Driller's Signature

Driller's Address

Great Falls, Montana

LICENSE NO. 335

Show exact depth of bottom

53.027
STATE OF MONTANA, ss.
County of Cascade.
I hereby certify that the within instrument was filed in this office on
APR 26 1973
at 3:45 o'clock P.M.
J. L. LENNON
County Clerk and Recorder.
By: (Signature)
Deputy.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Owner:  
Address:  

Driller:  
Address:  

Date of Notice of Appropriation of Groundwater:  

Date well started:  

Date completed:  

Type of well:  

Equipment Used:  

Water 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. Draw depth at which water is encountered, thickness and character of water-bearing strata and height to which water rises in the well.

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:  

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.
STATE OF MONTANA,
County of Cascade.
I hereby certify that the within instrument was filed in this office on
APR 17 1970
Date
at 12:30 o'clock P.M.
J. L. LENNON
County Clerk and Recorder
By: Alice Bolle
Deputy
Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 237, Montana Session Laws, 1961)

Owner: Sam L. Lens  
Address: West of Great Falls

Driller: Swenson & Drilling Co  
Address: 2300-13 St. S, Great Falls

Date of Notice of Appropriation of Groundwater: Oct. 14, 1963
Date Well Started: Oct. 14, 1963
Date Completed: Oct. 26, 1963

Type of Well: Drilled
Equipment Used: Rotary
(Dug, Driven, bored or Drilled)

J. B. Mower

Water Use: Domestic ☐  Municipal ☐  Other ☐  Irrigation ☐

Dug, Driven, bored or Drilled (Churn, drill, rotary or 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 water rises in the well.

<table>
<thead>
<tr>
<th>Strata Met with in Drilling</th>
<th>Character</th>
<th>Thickness</th>
<th>Height Water Rises</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil, Clay, Shale, Gravel</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for Non-Flowing Well: 4 feet.
Shut-In Pressure for Flowing Well: Not Flowing
Pumping Water Level: 6 feet at 80 gal. per minute.
Discharge in gal. per min. of flowing well: Not Flowing

How Tested: Well Drilled
Length of Test: 5 hours

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) Cemeted from 0 to 193 ft.
Used for irrigating approximately one acre and for watering 600 head of cattle in feet lots and furnishing water for 3 dwellings.

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 Appropriaor.
STATE OF MONTANA, ss.
County of Cascade.

I hereby certify that the within instrument was filed in this office on

DEC 30 1893

at 2 o'clock P.M.

J. L. LENNON
County Clerk and Recorder

By 

Deputy
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER
 Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1963)

1. David Johnson (Name of Appropriate) (Address) 318 First Street
County of Cascade State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

2. The beneficial use on which the claim is based: 
- domestic...
- stock watering...

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 
- date not known...
- continuous use...

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 
- not known...

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: 
- irrigating...south of rubbing...
- around dwellings...
- water supply for slaughter house...

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 
- not known...

8. The depth of water table: 
- not known...

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: 
- not known...

10. The estimated amount of groundwater withdrawn each year: 
- not known...

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

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

Signature of Owner: 
Date: Dec. 28, 1964

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 Appappropriate.
STATE OF MONTANA, in
County of Cascade.
I hereby certify that the within instrument was filed in this office on
DEC 19 1868

J. L. LENNON
County Clerk & Recorder.

Deputy.
<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Seiztad, Wm. R.</td>
<td>G. 2</td>
<td>34383</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Hinderage, Charles</td>
<td>G. 3</td>
<td>34385</td>
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<td>27</td>
<td>Shrey, Franklin</td>
<td>G. 2</td>
<td>34123</td>
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<tr>
<td>27</td>
<td>Lemire, Edward James</td>
<td>G. 4</td>
<td>45427</td>
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<tr>
<td>31</td>
<td>Anderson, David</td>
<td>G. 4</td>
<td>34427</td>
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<td>34</td>
<td>Beeman, Donald</td>
<td>G. 4</td>
<td>44521</td>
<td></td>
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<tr>
<td>36</td>
<td>Decker, John</td>
<td>G. 2</td>
<td>34529</td>
<td></td>
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<tr>
<td>?</td>
<td>Wartinsky, Eugene</td>
<td>G. 2</td>
<td>3457</td>
<td></td>
</tr>
<tr>
<td>?</td>
<td>Wartinsky, Eugene</td>
<td>G. 1</td>
<td>3456</td>
<td></td>
</tr>
</tbody>
</table>
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER
OFFICE OF STATE ENGINEER

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

Owner: __________________________ Address: __________________________

Driller: __________________________ Address: __________________________

Date of Notice of Appropriation of Groundwater: 12-30-63

Date well started: 12-24-63 Date Completed: 12-27-63

Type of well drilled: ______ Equipment Used: Churn drill

(type: dug, driven, bored or 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>Strata Met with</th>
<th>Depth (Feet)</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>Sand</td>
<td>6-5/8</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well: 23' below grade.

Shut-in Pressure for Flowing Well: _______________________

Pumping Water Level: 36' foot of grade at 6 gal. per minute.

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

How Tested: water-filled Length of Test: 2 hours

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).

The well was drilled to a depth of 52 feet...

...Gravel packed back to 12'

...12'

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

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

1. Name of Appropriator: [Name]
   Address: [Address]
   Town: [Town]
   County of [County]
   State of [State]

2. The beneficial use on which the claim is based: [Type of Beneficial Use]

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

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

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

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

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

8. The depth of water table: [Depth]

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

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

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

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

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

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; TriPLICATE to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
STATE OF MONTANA, County of Cascade.

I hereby certify that the within instrument was filed in this office on

DEC 13 1898

at 2:50 o'clock M.

J. L. LENNON
County Clerk and Recorder.

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

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

Date of Notice of Appropriation of Groundwater: [Date]
Date well started: [Date]  Date Completed: [Date]

Type of well: [Type]  Equipment Used: [Type]
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, 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.

Static Water Level for non-flowing Well: [Depth] feet.
Shut-in Pressure for Flowing Well: [Pressure] psi.
Pumping Water Level: [Depth] feet at [Flow] gal. per minute.

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

How Tested: [Method]  Length of Test: [Duration]'

Remarks: [Details]

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

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

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

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

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

County of Chouteau.

I hereby certify that the within instrument was filed in this office on

SEP 9, 1971

at 2:30 o'clock P.M.

J. L. LENNON
County Clerk and Recorder.

By: Deputy
DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

EDWARD JAMES LENAGH and
SUSAN LENAGH

(Name of Appropriator)

of 3112 6th Ave. So., Great Falls, Mont.

(Address)

County of Cascade State of Montana

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

1. Description of the lands to which water has been applied and name of the owner thereof:

   Irrigated 4 acres and the acreage is located in the SW\(\frac{1}{4}\) Sec. 27, T. 31 N., R. 3 East M.P.N.

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

   Livestock and irrigation

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

   May 5, 1957 and continuous use since that date.

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

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

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

5 acres in Sec. 27, T. 31 N., R. 3 E.

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

   Electric pump for the only one (1) well located on the real property described in No. 3.

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

   Commenced on or about May 1, 1957 and completed

8. The depth of water table present well is sixty (60) feet down.

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.

   Size is 4" casing and present well is sixty (60) feet down.

10. The estimated amount of groundwater withdrawn each year 1,878,800 (computed at 3 gallons per day for one 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 December 30, 1963

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology; and Quadruplicate for the 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. David Anderson, of Sec. 17, T. 34N., R. 52E.
   (Name of Appropriator)
   County of Cascade
   State of Montana
   Address
   Town

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 stock watering

3. Date or approximate date of earliest beneficial use; and how continuous the use has been:
   Date: not known
   Continued use: not known

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

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: not known
   Shrubbery around house:
   Water supply for slaughter house:

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
   not known

8. The depth of water table:
   not known

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater:
   not known

10. The estimated amount of groundwater withdrawn each year:
    have no idea

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

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

Signature of Owner: David Anderson
Date: Dec. 27, 1963

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriate.
STATE OF MONTANA, Joe
County of Cassel, A

I hereby certify that the within instrument was filed in this office on
DEC 30 1969

8:00 A.M.

J. L. LENNON
County Clerk and Recorder

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

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

1. Donald R. Brown, 603 N. Main St.
   (Name of Appropriate) (Address) (Town)
   County of Cascade 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

3. Date or approximate date of earliest beneficial use; and L. W. continuous use has been:
   1921

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

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

6. The means of withdrawing each 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:
   1924

8. The depth of water table:
   Approximately 30 ft.

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

10. The estimated amount of groundwater withdrawn each year:
    219,830 cu. ft.

11. The log of formations encountered in the drilling of each well if available:
    Material: Sandstone and clay

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:
    Handwritten notes

Signature of Owner:

Date:

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
**Notice of Completion of Groundwater Appropriation by Means of Well**

(Onder Chapter 237, Montana Session Laws, 1961)

**Owner:** Wallace M. Shopfild  
**Address:** Great Falls, Mont.

**Driller:** Thomas J. Thatch  
**Address:** Great Falls, Mont.

**Date of Notice of Appropriation of Groundwater:** June 12, 1963

**Date Well Started:** June 14, 1963  
**Date Completed:** June 17, 1963

**Type of Well:** Drilled, Driven  
**Equipment Used:** Cable tools

**Water Use:** Domestic  
**Industrial**  
**Municipal**  
**Other**  
**Irrigation**

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

<table>
<thead>
<tr>
<th>Stratum</th>
<th>Character</th>
<th>Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Static Water Level for non-flowing Well:** 75 feet

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

**Pumping Water Level:** 100 feet at 13 gal. per minute

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

**How Tested:** 84 days

**Length of Test:** 2 days

**Remarks:** (Gravel packing, cementing, packers, location of place of use of groundwater if not at well, and any other pertinent information, including number of acres irrigated, etc. for irrigation)

**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.
STATE OF MONTANA, ex
County of Cascade.
I hereby certify that the within instrument was filed in this office on
NOV 29 1963

at [time] o'clock A.M.

J. L. LENNON
County Clerk and Recorder.

By [Signature] Deputy.
Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 237, Montana Session Laws, 1961)

Owner: Eugene Mardinson  Address: Sheet Falls, Mont.
Driller: Thomas E. Hamilton  Address: Sheet Falls, Mont.

Date of Notice of Appropriation of Groundwater: Nov. 2, 1963
Date well started: Nov. 4, 1963  Date Completed: Nov. 7, 1963

Type of well: Drilled, Driven  Equipment Used: Cable, Tackle

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>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>5 inch</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>14 lbs.</td>
<td>14 lbs.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 15 feet.
Shut-in Pressure for Flowing Well: 
Pumping Water Level: 35 feet at: 80 gal. per minute.
Discharge in gal. per min. of flowing well: 
How Tested: Daily
Length of Test: 2 days.

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

Driller’s License Number
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.
STATE OF MONTANA,
County of

I hereby certify the within instrument was filed in this office on

REC 9 - 1968

at 4:31 o'clock P.M.

J. L. LENTON
County Clerk and Recorder.

Deputy.
Notice of Appropriation of Groundwater
(Under Chapter 237, Montana Session Laws, 1961)

1. Name of Appropriator (Name of Appropriator) of Sec 17 T 79N R 66E
   (Address) of Minot, 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 (describe lands to be benefited, if for irrigation)

3. The rate of use in gallons per minute or miner’s inches of groundwater claimed 20

4. The annual period (inclusive dates) of intended use Jan 1 thru Mar 31

5. The probable or intended date of first beneficial use Nov 30

6. The probable or intended date of commencement and completion of the well or wells
   Nov 4 - 1967 completed Nov 7 - 1967

7. The location, type, size and depth of well or wells contemplated
   Drilled 5 I D 90 ft

8. The probable or estimated depth of the water table or artesian aquifer 85 ft

9. Name, address and license number of the driller engaged
   Thomas Franklin
   Route #1, Box 39

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

   Date 12-5-67

   Signature of Appropriator

   Locate well or other means of development as accurately as possible on the plat.

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

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

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

   Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology and quadruplicate for the Appropriator.
STATE OF MONTANA, ss.
County of Cascade.

I hereby certify that the within instrument was filed in this office on

DEC 9 - 1962

at 9:30 o'clock a.m.

J. L. LENNON
County Clerk and Recorder.

By: D. C. Doe
Deputy.
<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>9</td>
<td>School dist # 1</td>
<td>C-11</td>
<td>5840</td>
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</tr>
<tr>
<td>16</td>
<td>U.S. R.</td>
<td>C-11</td>
<td>3780</td>
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<tr>
<td>28</td>
<td>Tees, Gleneal</td>
<td>C-4</td>
<td>11465</td>
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</tr>
<tr>
<td>39</td>
<td>Hawley, T.</td>
<td>C-3</td>
<td>5235</td>
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<tr>
<td>33</td>
<td>Fish &amp; Game</td>
<td>C-2</td>
<td>3017</td>
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<tr>
<td>33</td>
<td>Fish &amp; Game</td>
<td>C-5</td>
<td>3212</td>
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<tr>
<td>35</td>
<td>Next Power</td>
<td>C-41</td>
<td>3022</td>
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</table>
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

ALBERT F. STAUB, Chief, Acquisition Branch, Real Estate Division,
U.S. Army Engineer District, Seattle, for and on behalf of

THE UNITED STATES OF AMERICA

5139 Alaskan Way South, Seattle, Washington

County of King

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 is used by the United States AF for its personnel in official duty.

3. Date or approximate date of earliest beneficial use: December 1959

4. The amount of groundwater claimed (in miner's inch or gallons per minute): 7 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. Pumped from well no. 1 on the lands described on well log.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Commenced December 1959 - Completed November 1959

8. The depth of water table: 186 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: 82' - 873 FEET

10. The estimated amount of groundwater withdrawn each year: 16,000 GALLONS

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

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

For and on behalf of the UNITED STATES OF AMERICA through U.S. ARMY ENGINEER DISTRICT, Seattle, Real Estate Division

Signature of Owner: ALBERT F. STAUB, Chief, Acquisition Branch

Date: ____________________

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.
STATE OF MONTANA,
County of Cascade.
I hereby certify that the within instrument was filed in this office on
JUL 20 1962
at 9:28 a.m.
J. L. LENNON
County Clerk and Recorder.
By
Deputy.
<table>
<thead>
<tr>
<th>Elevation</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>3708</td>
<td>Elly Sand (Top of Rock)</td>
</tr>
<tr>
<td>3704</td>
<td>S. Gray, Fine, M. Hard</td>
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<tr>
<td>3698</td>
<td>S. Dark Gray, M. Soft</td>
</tr>
<tr>
<td>3690</td>
<td>C. Shale, Ignite &amp; Carbonaceous</td>
</tr>
<tr>
<td>3686</td>
<td>S. Shale - Dark Gray</td>
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<tr>
<td>3675</td>
<td>S. Brownish Gray, M. Soft</td>
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<tr>
<td>3663</td>
<td>S. Interbedded Brown, Fine</td>
</tr>
<tr>
<td>3658</td>
<td>S. S &amp; Dark Gray Shale</td>
</tr>
<tr>
<td>3645</td>
<td>S. Brown w/ Abundant Crystals of Red Zeolite</td>
</tr>
<tr>
<td>3638</td>
<td>S. Light to Medium Gray</td>
</tr>
<tr>
<td>3623</td>
<td>S. Lt. Greenish Gray, Soft</td>
</tr>
<tr>
<td>3598</td>
<td>S. Lt. Gray, Renovitic, Slightly Sandy, Soft</td>
</tr>
<tr>
<td>3588</td>
<td>S. M. Gray, M. Hard, Partly Sandy</td>
</tr>
<tr>
<td>3575</td>
<td>S. Dark Gray, M. Medium Soft</td>
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<tr>
<td>3563</td>
<td>S. Shaly, Fine, Gray, Soft</td>
</tr>
<tr>
<td>3553</td>
<td>S. Sandy, Med. to DK. Gray, Soft, Fine</td>
</tr>
<tr>
<td>3543</td>
<td>S. Glauconitic, Dark Greenish-Gray</td>
</tr>
<tr>
<td>190°</td>
<td>(Continued at Hole #2)</td>
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**Note:**
- Blackleaf FM. Bootlegger M.
- Base of Bootlegger M. Top of Vaughn M.
- Base of Vaughn M. Top of Taft Hill M.
<table>
<thead>
<tr>
<th>Elevation</th>
<th>Description</th>
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<tbody>
<tr>
<td>1483 225</td>
<td>LT. GRAY, SOFT, HENTONITIC</td>
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<tr>
<td>3473 230</td>
<td>DK GREENISH GRAY, HARD, SANDY, GLAUCONITIC</td>
</tr>
<tr>
<td>3473 235</td>
<td>GENERALLY DARK - MED GRAY, HARD TO SOFT, INTERBEDDED, THINBEDDED (IN PART)</td>
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<td>3413 295</td>
<td>LIGHT GRAY, SOFT</td>
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<tr>
<td>3403 305</td>
<td>DARK GREENISH GRAY, GLAUCONITIC, MEDIUM TO FINE GRAINY, SOFT</td>
</tr>
<tr>
<td>3388 320</td>
<td>MOSTLY M-DK GRAY, SANDY (IN PART) HENTONITIC (IN PART) SOFT</td>
</tr>
<tr>
<td>3358 350</td>
<td>DK. GRAY, SOFT</td>
</tr>
<tr>
<td>3333 375</td>
<td>GRAY, FINE, SOFT</td>
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<tr>
<td>Elevation</td>
<td>Depth</td>
</tr>
<tr>
<td>-----------</td>
<td>-------</td>
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<tr>
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<td>2953</td>
<td>755</td>
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<tr>
<td>2934</td>
<td>774</td>
</tr>
</tbody>
</table>

**Static Water Level:**
600' after development

**Began Drilling with:**
60L @ 631

**Hole Caving Slightly:**
640-680

**Dynamic Water Level:**
At 5 G.P.M.
# Drilling Log

## Hole No. GATR #1

### Department of the Army

**Division:** North Pacific  
**Installation:** Seattle District

### Project:

**Malmstrom AFS, Montana**  
**Sheet:** 5 of 5  
**(See Sheet #1)**

## Drilling Log

<table>
<thead>
<tr>
<th>Depth</th>
<th>Classification/Formation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2913</td>
<td>SS: Dark Gray to Red, Soft</td>
</tr>
<tr>
<td>2908</td>
<td>SH: Gray, Fine, Hard</td>
</tr>
<tr>
<td>2995</td>
<td>SS: Dark Gray, Medium Hard, Partly Thinbedded, W/ Some Interbedded Gray Hard Sandstone and Brown Siltstone With Depth</td>
</tr>
<tr>
<td>2848</td>
<td>SS: Gray, Fine to Medium, Water Bearing</td>
</tr>
<tr>
<td>2833</td>
<td>SH: Dark Grey</td>
</tr>
<tr>
<td>2833</td>
<td>Bottom of Hole</td>
</tr>
</tbody>
</table>

### Remarks:

- **Hole Making Water:** 1 gal / 4 min.
- **Top 6" liner 814'**
- **Bottom of 8" casing 822'**
- **Dwl @ 9 GPM**
- **6½" liner to 860'**
- **#10 Johnson well screen 860'-870'**
- **Gravel Packfill 870'-871'**