STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Hilda Oakes
   (Name of Appropriate) of
   (Address) in

   County of
   State of
   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 acres and description of the lands to which water has been applied and name of the owner thereof

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

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

   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 The estimated amount of groundwater withdrawn each year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
   Hilda Oakes
   Date Dec. 31, 1962

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology, and quadruplicate for the Appropriate.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Joel A. Manford, R. Hagerquist, of R. R. 1, Westby

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

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

3. Date or approximate date of earliest beneficial use; and how continuous, the use has been since 1952: Continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 10 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: pump with pump jack and electric motor

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Jan. 1956

8. The depth of water table: 35 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: Drilled, packed casing, depth: 71 ft.

10. The estimated amount of groundwater withdrawn each year: 110,000 gallons

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: Manford, Hagerquist

Date: Jan. 31, 1961

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

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

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

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

(Name of Appropriator) (Address) (Town)
County of SHERIDAN State of MONTANA have appropriated groundwater according to the Montana laws in effect prior to January 1, 1963, as follows:

1. 

2. The beneficial use on which the claim is based for drinking, livestock watering, and irrigation.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been, 1925 and continuous ever since.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 30 gallons per minute.

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. Drilled well, 135' deep, equipped with pump and automatic control.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater, Dec. 16, 1925, commencement and completion Jan. 10, 1926.

8. The depth of water table.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. Drilled well, 135' deep. Well at 115' deep.

10. The estimated amount of groundwater withdrawn each year. 3 tons per year.

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

12. Such other information 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: MAXFORD W. LAGERQUIST
Date: Jan. 31, 1963

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

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

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

County of Sherman.

Filed this 31st day of January A.D. 1963
at 2:00 o'clock A.M.

By A. A. Kistner
County Recorder

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

Owner: Maxford Lager, 1234 Main St., Westby, Mont.
Driller: Marcus Jensen, Address: Antelope, Mont.
Date of Notice of Appropriation of Groundwater: None.
Date well started: 7-18-62; Date Completed: 7-19-63.
Type of well: Drilled. Equipment Used: Cable tool.
(dug, driven, bored or churn, drill, rotary or drilled)
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>Site of Drilled Hole</th>
<th>Site and Weight of Cable</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>Kind</th>
<th>PERFORATIONS</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>4½&quot; 0 D</td>
<td>0</td>
<td>80</td>
<td>5/10&quot;</td>
<td>1&quot; X 3/4&quot;</td>
<td>0</td>
<td>5&quot;</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 4½ feet.
Shut-in Pressure for Flowing Well: None.
Pumping Water Level: 25 feet at 8 gal. per minute.
Discharge in gal. per min. of flowing well: None.
How Tested: Drilled. 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) None.

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

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 Sheridan.

Filed this 30 day of July, A.D. 1962, at 12:00 o'clock P.M.

L. A. Nelson
County Recorder

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

Owner: Richard Carlson
Address: Westmont

Driller: Albert Anderson
Address: Medicine Lake

Date of Notice of Appropriation of Groundwater: July 3, 1963
Date well started: July 2, 1963
Date completed: July 3, 1963

Type of well: Drilled
Equipment Used: (Churn, drill, rotary or drilled)

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</th>
<th>To</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>5'2</td>
<td>11'2</td>
<td>6</td>
<td>40</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 2.7 feet
Shut-in Pressure for Flowing Well: 0
Pumping Water Level: 37 feet at 8 gal. per minute
Discharge in gal. per min. of flowing well: 0
How Tested: Pump
Length of Test: 5 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)

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

Show exact depth of bottom.

Driller's License Number: 10-6
Driller's Signature: [Signature]

This form to be pre-arsed 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; duplicates to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.
STATE OF MONTANA:

County of Sheridan.

Filed this ___ day of July A. D. 19__

___ o'clock A. M.

L. D. Sheldan
County Recorder

By: Magette Sheldan
Depository
### WATER WELL LOG

**Owner:** James Eln
**Address:** Westby, Mont.

**Driller:** Laroquist Drilling Co.
**Address:** Westby, Mont.

- **Date Started:** 7/26/77
- **Date Completed:** 7/30/77

**Location:** Sec. 11 T. 35 R. 58 ¼ sec.

**Type of well:** Irrigation

**Equipment used:** Churn-Drill

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

**Industrial [ ] Drainage [ ] Other: [ ]**

| Casing: | 60 ft. to ft. | Type: | P. | Depth | Size A
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing:</td>
<td>ft. to ft.</td>
<td>Type:</td>
<td>Size</td>
<td></td>
</tr>
<tr>
<td>Casing:</td>
<td>ft. to ft.</td>
<td>Type:</td>
<td>Size</td>
<td></td>
</tr>
</tbody>
</table>

**Perforated or Screened:** Ft. 30-50 to ft. 60 Ft. to ft.

**Type of screen or perforations:** 1 row of perforations

**Static Water level, for non-flowing well:** 30 feet.

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

**Pumping water level:** 30 ft. at 35 C gal. per min.

**How tested:** Purpdr.

**Length of test:**

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

- 2 Wells same depth same formation

(over)
## WATER WELL-LOG

<table>
<thead>
<tr>
<th>Owner</th>
<th>James Ekl</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller</td>
<td>Lagerquist Drilling Co</td>
</tr>
<tr>
<td>Address</td>
<td>Westby, Mont.</td>
</tr>
<tr>
<td>Casing</td>
<td>60 ft. to 10 ft.</td>
</tr>
<tr>
<td>Diameter</td>
<td>4 in.</td>
</tr>
<tr>
<td>Date Started</td>
<td>7/21/57</td>
</tr>
<tr>
<td>Date Completed</td>
<td>7/29/57</td>
</tr>
<tr>
<td>Location</td>
<td>Sec. 35 R 58</td>
</tr>
<tr>
<td>Water use</td>
<td>Domestic Stock Irrigation</td>
</tr>
<tr>
<td>Equipment used</td>
<td>Churn-Drill</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Casing</th>
<th>ft. to ft.</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td>10</td>
<td>Elk</td>
<td>4 in.</td>
</tr>
</tbody>
</table>

- Perforated or Screened: 3 rows or perforations

- Static Water level, for non-flowing well: 30 feet
- Shut-in pressure, for flowing well: 14 lbs. per sq. in.
- Pumping water level: 55 feet at 350 gal. per min.

- How tested: Pumped
- Length of test: Notes

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

- 2 Wells same depth, same formations
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - 12</td>
<td>Sand</td>
</tr>
<tr>
<td>12 - 58</td>
<td>Blue clay</td>
</tr>
<tr>
<td>58 - 60</td>
<td>Sand gravel water</td>
</tr>
</tbody>
</table>
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

STATE ENGINEER

1. Oswald Osbakken, of ________________ , Wood, State of Montana, have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>W</td>
<td>E</td>
</tr>
</tbody>
</table>

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

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

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: Oswald Osbakken
Date: Dec 27, 1962

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology; and quadruplicate for the Appropriator.
STATE OF MC:... 
County of Saline.

Filed this ___ day of __________, A.D. 19__.

2:30 o'clock P.M.

Drs. Nelsen
County Recorder

By: Myrtle Halls
Deputy.
## Groundwater Index

**County:** SHERIDAN  
**Twp.:** 34N  
**Rge.:** 51E

<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>1</td>
<td>BLEDSOE, ELIZABETH J.</td>
<td>C.W. H</td>
<td>334841</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>HOGAN RANCHES</td>
<td>H</td>
<td>334832</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>HOYAN, ARTHUR M SR.</td>
<td>H</td>
<td>333854</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>LOTTING, LEONARD</td>
<td>C.W. 2</td>
<td>333496</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>KAMMING, ADOLPH</td>
<td>C.W. 2</td>
<td>329200</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>KAMMING, ADOLPH</td>
<td>C.W. 2</td>
<td>329201</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>FISHELL, ELIZABETH</td>
<td>C.W. 3</td>
<td>335301</td>
<td></td>
</tr>
</tbody>
</table>
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. 
(Name of Appropriator) (Address) (Town)
County of , State of
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

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.

Signature of Owner

Date

[Grid]
STATE OF MONTANA

County of Montana

Filed the 30th day of
November, A.D. 1933,
at 4 o'clock P.M.

[Signature]
County Recorder

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. Hogan Ranches, of Relative
   (Name of Appropriator) (Address) (Town)

   County of Sheridan, State of Montana

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

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

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

2. The beneficial use on which the claim is based: Livestock and household

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1912 - continually

4. The amount of groundwater claimed (in miner's inches or gallons per minute): - 10 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

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: 500, 00 gallons

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: Hogan Ranches
   Date: Dec. 31, 1962

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

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

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

 this______day of
December, A.D. 19___

at ___ o'clock ___ A.M.


County Recorder

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. **Arthur M. Hagan Jr**, of **Redstone**, (Address) **Sheridan** (Town)
   County of **Sheridan** 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. **Stock Water**

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been. **Used 7 months out of year**

   4. The amount of groundwater claimed (in miner's inches or gallons per minute) **6 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. **Not used for irrigation**

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

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. **Completed 5-16-24**

   8. The depth of water table. **105'**

   9. So far as it may be available, the type, size and depth of each well on the general specifications of any other works for the withdrawal of groundwater. **6-inch diameter casing, 120**

   10. The estimated amount of groundwater withdrawn each year. **22,000 gal**

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

   12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. **None**

   

   Signature of Owner: **Arthur M. Hagan**
   Date: **Jan 2, 1963**

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

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

   Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology, and quadruplicate for the Appropriator.
Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 237, Montana Session Laws, 1961)

Owner: Leland Lossing
Address: Redstone, Montana
Driller: Bone Whitmer & Sons
Address: Wolfpoint, Montana

Date of Notice of Appropriation of Groundwater: July 24, 1963
Date well started: July 24, 1963
Date Completed: July 28, 1963

Type of well: Drilled
Equipment Used: (Churn, drill, rotary, spur, 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>Depth (Feet)</th>
<th>Water Use</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>150</td>
<td>Domestic</td>
<td></td>
</tr>
<tr>
<td>200</td>
<td>Irrigation</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 10 feet.
Shut-in Pressure for Flowing Well: 0.
Pumping Water Level: 160 feet at 6 gal. per minute.
Discharge in gal. per min. of flowing well: 6.
How Tested: Bailer 1 hour
Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation)

<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&quot; ID</td>
<td>14# lb.</td>
<td>0</td>
<td>160</td>
<td>None</td>
</tr>
</tbody>
</table>

Gravel Screen

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, ss.
County of Sheridan.

Filed this 13 day of
September A. D. 1903
at 10 o'clock A. M.

P. A. Nelson
County Recorder

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

Owner: Cloyd Kaming
Address: Helena, Montana

Driller: Western Drilling Co.
Address: Helena, Montana

Date of Notice of Appropriation of Groundwater: 5-6-62
Date well started: 5-9-62
Date completed: 5-18-62

Type of well: Drilled
Equipment Used: Rotary

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>Weight of Drilling</th>
<th>From</th>
<th>To</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot; x 8&quot;</td>
<td>4&quot; casing</td>
<td>6</td>
<td>61.5</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 100 feet.
Shut-in Pressure for Flowing Well: 20 psi.
Pumping Water Level: 60 feet at 100 gal. per minute.
Discharge in gal. per min. of flowing well: 150 gal.
How Tested: Pump
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 similar pertinent information, including number of acres irrigated, if used for irrigation.

Driller's License Number: 166
Driller's Signature: Lloyd K. Carlson

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 Sheridan.

Filed this 29th day of May A.D. 1967 at 11:00 A.M.

[Signature]

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

Owner:  Adolf H. Kaying  Address:  Butte, Mont.
Driller:  William Shilling  Address:  Mont.  School, Mont.
Date of Notice of Appropriation of Groundwater:  5-12-62
Date well started:  5-14-62  Date Completed:  5-18-62
Type of well:  Drilled  Equipment Used:  Rotary
(dug, driven, bored or drilled)
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>63</td>
<td></td>
<td>0</td>
<td>70</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well:  8 ft  feet.
Shut-in Pressure for Flowing Well:  30 psi
Pumping Water Level:  12  feet at 30  gal. per minute.
Discharge in gal. per min. of flowing well:  10
How Tested:  Pumping
Length of Test:  4 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.

![Diagram](Attached Diagram)

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 Sheridan.
Filed this 29 day of May A.D. 1962
at 11:00 o'clock A.M.

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

Owner: [Name]
Address: [Address]
Driller: [Name]
Address: [Address]
Date of Notice of Appropriation of Groundwater: July 30, 1963
Date well started: July 28, 1963
Date completed: July 30, 1963
Type of well: [Type]
Equipment used: [Equipment]

Water Use:
- Domestic
- Municipal
- Other
- Irrigation
- Industrial
- Drainage
- Stock
- 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>Size of Drilled Hole</th>
<th>Size and Weight of Casing (Feet)</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 43 feet
Shut-in Pressure for Flowing Well: 0
Pumping Water Level: 95 feet at 0 gal. per minute
Discharge in gal. per min. of flowing well: 0
How Tested: [How]
Length of Test: [Length]

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

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology and quadruplicate for the Appropriator.
Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: Jan. 6, 1921 by first use of predecessors in interest

Ownership:
Elizabeth Fishell, Address Redstone, Montana et al.

Contractor (if any): None

Address of Contractor:

Date Started: Jan. 1, 1921
Date Completed: Jan. 6, 1921

Claimants herein deeded land and spring 1955. Describe means of obtaining groundwater without a well "... by sub-irrigation and other natural processes". Include depth to water when applicable. Free flowing spring--out of the ground without artificial assistance; runs the year round;

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use:
5 gallons per minute—measured by use of 5-gallon pail—used entire year around. Used for watering, pipes water about 200 feet lang.

Signature of Owner: Elizabeth Fishell
Date: December 8, 1961

This form to be prepared by contractor (if any), otherwise by the owner.

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.
STATE OF MONTANA
County of Sheridan
Filed this 5th day of
MARCH 1963
at 12:10 o'clock P.M.

County Recorder

Deputy
<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriae [name]</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Smith, Leonard</td>
<td>G.W. 3</td>
<td>334830</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Smith, Leonard</td>
<td>G.W. 3</td>
<td>334817</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Jensen, James A.</td>
<td>G.W. 4</td>
<td>334947</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Carnel, C.C.</td>
<td>G.W. 3</td>
<td>334946</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Carnel, C.C.</td>
<td>G.W. 3</td>
<td>334945</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Blade, Elizabeth J.</td>
<td>G.W. 3</td>
<td>331365</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Hagen, Arthur H. Sr.</td>
<td>G.W. 4</td>
<td>331818</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Smith, Leonard</td>
<td>G.W. 3</td>
<td>334818</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Hanley, John</td>
<td>Well Log</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Johnson, Gerardo</td>
<td>G.W. 4</td>
<td>336018</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Johnson, Gerhardt</td>
<td>G.W. 2</td>
<td>334731</td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>Johnson, Elmer</td>
<td>G.W. 1</td>
<td>334949</td>
<td>Well Log</td>
</tr>
<tr>
<td>33</td>
<td>Johnson, Elmer</td>
<td></td>
<td>338018</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>Johnson, Elmer</td>
<td>G.W. 3</td>
<td>335102</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>Knudson, Oscar</td>
<td>Well Log</td>
<td>338021</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>Bentzen, Otto S.</td>
<td>G.W. 4</td>
<td>334747</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>Bentzen, Otto S.</td>
<td>H</td>
<td>334732</td>
<td></td>
</tr>
<tr>
<td>39</td>
<td>Johnson, Elmer</td>
<td>G.W. 3</td>
<td>335703</td>
<td></td>
</tr>
</tbody>
</table>
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: 1967
Owner: Leonard Smith
Address: Redcliff
Contractor (if any) __________
Address of Contractor __________
Date Started: 1957  Date Completed: 1957

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

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use.
Used for livestock 7 months per year

Signature of Owner: Leonard Smith
Date: Dec 27, 63

This form to be prepared by contractor (if any), otherwise by the owner.

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

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

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

COUNTY OF [County]

File No. 30
day of December A.D. 19[12]

[12:00 clock G.M.]

[Signature]
County Recorder

[Signature]
Deputy
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Date of Appropriation of Groundwater

Owner

Conractor (If any)

Address of Contractor

Date Started

Date Completed

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

Undeveloped natural
place

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

Used about seven month
per year for livestock
and record of quantity

Signature of Owner

Date

This form to be prepared by contractor (if any), otherwise by the owner.

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

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

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

County of [illegible]

Filed this 30th day of

December A.D. 19[illegible]

at 12:00 o'clock P.M.

[Signature]

County Recorder

[Signature]

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

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

James A. Jensen
County of: Sheridan
State of Montana

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

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

2. The date or approximate date of earliest beneficial use: 1930

3. The amount of groundwater claimed (in miner's, inches or gallons per minute) at well: 5 gal/min.

4. If used for irrigation, give the acres and description of the lands to which water has been applied: Not applicable

5. The means of withdrawing such water from the ground: Not applicable

6. The depth of water table: 200 ft.

7. The estimated amount of groundwater withdrawn each year: 180,000 gal.

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

9. 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: additional to my knowledge

Signature of Owner: James A. Jensen
Date: 12-30-63

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

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

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

Filed this 23 day of December A.D. 1903
at 11 o'clock A.M.

[Signature]
County Recorder

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

(Under Chapter 237, Montana Session Laws, 1961)

Date of Notice of Appropriation of Groundwater: 5-23-62
Date well started: 5-24-62
Date completed: 5-25-62
Type of well: Drilled
Equipment Used: Rotary

Water Use: Domestic

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

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>Perf &amp; End</th>
<th>Kind</th>
<th>Pressure (Feet)</th>
<th>Length of Test (Hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 ft</td>
<td>4&quot; steel</td>
<td>0</td>
<td>105</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22 ft</td>
<td>6&quot; steel</td>
<td>0</td>
<td>13</td>
<td>drill</td>
<td>7</td>
</tr>
<tr>
<td>13 ft</td>
<td>8&quot; steel</td>
<td>0</td>
<td>13</td>
<td>drill</td>
<td>7</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 39 feet
Shut-in Pressure for flowing Well: 6 gal. per minute.
Pumping Water Level: 105 feet at 6 gal. per minute.
Discharge in gal. per min. of flowing well: 2.0

How Tested: Pump

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)

Casing was installed into water sand and shale stratum.

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 Sheriden

Filed this 21st day of December, A.D. 1908,
at 2:30 o'clock, M.

[Signature]

Sheridan Recorder

Deputy

[Signature]
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

<table>
<thead>
<tr>
<th>Date of Appropriation of Groundwater</th>
<th>Oct 27, 1956</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner</td>
<td>Cecil E. James</td>
</tr>
<tr>
<td>Address</td>
<td>Redstone</td>
</tr>
<tr>
<td>Contractor (if any)</td>
<td>None</td>
</tr>
<tr>
<td>Address of Contractor</td>
<td></td>
</tr>
<tr>
<td>Date Started</td>
<td></td>
</tr>
<tr>
<td>Date Completed</td>
<td></td>
</tr>
<tr>
<td>Describe means of obtaining groundwater without a well “as by sub-irrigation and other natural processes”, Include depth to water when applicable.</td>
<td></td>
</tr>
<tr>
<td>#1 is a natural seepage source.</td>
<td></td>
</tr>
<tr>
<td>#2 is a closed and upturned seepage well of 4 gal per min.</td>
<td></td>
</tr>
<tr>
<td>Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use.</td>
<td></td>
</tr>
<tr>
<td>Springs are used for limited and are used then you around.</td>
<td></td>
</tr>
<tr>
<td>Signature of Owner</td>
<td>Cecil E. James</td>
</tr>
<tr>
<td>Date</td>
<td>Dec 31, 1963</td>
</tr>
</tbody>
</table>

This form to be prepared by contractor (if any), otherwise by the owner.

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

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

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

12th day of December A.D. 1935

at 4:00 o'clock M.

[Signature]
County Recorder

[Signature]
Deputy
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Date of Appropriation of Groundwater: ____________________________
Owner: ____________________________ Address: ____________________________
Contractor (if any): ____________________________
Address of Contractor: ____________________________
Date Started: ____________________________ Date Completed: ____________________________

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

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

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

Signature of Owner: ____________________________
Date: ____________________________

This form to be prepared by contractor (if any), otherwise by the owner.

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

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

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

Filed this 8th day of December, A.D. 1988, at 4:00 o'clock P.M.

[Signature]

County Recorder

[Signature]
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

| Name of Appropriator | Address | Town | County | State | Have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:
|----------------------|---------|------|--------|-------|--------------------------------------------------------------------------------------------------------------
| Arthur M. Hagan Jr.  | Redstone|       |        |       | 2. The beneficial use on which the claim is based: Stock Water + Possible Irrigation
|                      |         |      |        |       | 3. Date or approximate date of earliest beneficial use; and how continues the use has been Used 3 1/2 Months
|                      |         |      |        |       | 4. The amount of groundwater claimed (in minute's inches or gallons per minute) 20 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 Has not been used for
|                      |         |      |        |       | 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal by
|                      |         |      |        |       | Pumping
|                      |         |      |        |       | 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Started 5-5-58 Completed 7-5-58
|                      |         |      |        |       | 8. The depth of water table 135'
|                      |         |      |        |       | 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:
|                      |         |      |        |       | Casing depth 120'
|                      |         |      |        |       | 10. The estimated amount of groundwater withdrawn each year Used 3 1/2 Months of 58
|                      |         |      |        |       | 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: None

Signature of Owner: Arthur M. Hagan Jr.
Date: Jan 2, 1963

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

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

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

(Under Chapter 237 Montana Session Laws, 1961)

<table>
<thead>
<tr>
<th>Date of Appropriation of Groundwater</th>
<th>1949</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner</td>
<td>Leonard Smith</td>
</tr>
<tr>
<td>Address of Contractor</td>
<td>Bridger</td>
</tr>
<tr>
<td>Date Started</td>
<td>1916</td>
</tr>
<tr>
<td>Date Completed</td>
<td>1916</td>
</tr>
<tr>
<td>Describe means of obtaining...</td>
<td>Spring, control and piping to a tank</td>
</tr>
<tr>
<td>Quantity of water developed and used</td>
<td>Used about nine months per year for livestock</td>
</tr>
<tr>
<td>estimate approximate lengths of...</td>
<td>No record of quantity</td>
</tr>
</tbody>
</table>

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

This form to be prepared by contractor (if any), otherwise by the owner.

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 Missoula

On this 30th day of November A.D. 1923

at 12:00 o'clock M.

[Signature]

County Recorder

Deputy
**WATER WELL LOG**

<table>
<thead>
<tr>
<th><strong>Location:</strong> Sec 4 T 24 R 2 1/4</th>
<th><strong>Date Completed:</strong> 15-58</th>
</tr>
</thead>
</table>

**Owner:** John Halley  
**Address:** Splenywood

**Driller:** Water Sea  
**Address:** Splenywood

**Date Started:** 12-15-58

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

**Casing:**
- Depth: 40 ft. to 100 ft.
- Type: Coated
type: Size: 16

**Perforated or Screened:**
- Depth: 18 to 60 ft. to ft.
- Type: Size:

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

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

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

**How tested:**

**Length of test:**

**Remarks:** (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)
- Gravel packed: 20 ft.
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>clay, yellow</td>
</tr>
<tr>
<td>20</td>
<td>sand</td>
</tr>
<tr>
<td>25</td>
<td>blue clay</td>
</tr>
<tr>
<td>70</td>
<td>sand, rock, and sand</td>
</tr>
</tbody>
</table>
### Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

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

**Declaration of Vested Groundwater Rights**

Gerhard O. Johnson  
(Name of Appropriator)  
Redstone  
(Address)  
(Town)  
County of Sheridan  
State of Montana

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

1. **The beneficial use on which the claim is based:**  
   Stock and Domestic

2. **Date or approximate date of earliest beneficial use; and how continuous the use has been:**  
   - Stock: 1919  
   - Domestic: 1925  
   - Been in continuous use since dug

3. **The amount of groundwater claimed:**  
   - 2 gal each

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

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

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

7. **The depth of water table:**  
   - Stock: 52'  
   - Domestic: 30'

8. **The log of formations encountered in the drilling of each well if available:**
   - Stock: 2' wood casing  
   - Domestic: 9' tile casing

9. **The estimated amount of groundwater withdrawn each year:**  
   - 92,000 gal each

10. **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: Jan 7, 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 Appropriator.
STATE OF MONTANA,
County of Sheridan,
Filed this 7 day of January A. D. 1964
at 8:30 o'clock A.M.

D.A. Nelson
County Recorder
Deputy
Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 237, Montana Session Laws, 1961)

Owner: Herbert Johnson Address: Helena, Mead

Driller: Weston Gibby Address: Helena, Mead

Date of Notice of Appropriation: 5-19-62
Date Well Started: 5-19-62 Date Completed: 5-26-62

Type of Well: Drilled Equipment Used: Rotary
( drill, rotary or other)

Water Use: Domestic [ ] 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.

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

How Test: pump Length of Test: hours

Remarks: (Gravel packing, cementing, packers, type of shutoff location of place of use of groundwater if not well, and any other similar pertinent information including number of acres irrigated, if used for irrigation. Casing was set to 6' of water sand and 2 small gravel between casing and well was used. then filter from 6' of sand and gravel.

Driller's License Number: 6-1276
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 Sheridan

Filed this 80 day of
December A.D. 1933
at 4:00 o'clock P.M.

[Signature]
County Recorder

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

Owner: Clarence Johnson
Address: Redstone, Mont.

Driller: Weston Drilling
Address: Redstone, Mont.

Date of Notice of Appropriation of Groundwater: 6-20-62
Date well started: 6-21-62
Date Completed: 6-25-62

Type of well: Drilled
Equipment Used: Rotary

Water Use: Domestic

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

<table>
<thead>
<tr>
<th>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>6 1/2</td>
<td>4&quot;</td>
<td>0</td>
<td>138</td>
<td>Fine</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 80 feet.
Shut-in Pressure for Flowing Well:
Pumping Water Level: 120 feet at 6 gal. per minute.
Discharge in gal. per min of flowing well:
How Tested:"
Length of Test:"
Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and 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.

Orignal 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.
Form No. 18
Butte, Montana

WATER WELL LOG

<table>
<thead>
<tr>
<th>Owner</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Redstone, Mont.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Driller</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Dig.</td>
<td>Butte, Mont.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date Started</th>
<th>Date Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>7-1-61</td>
<td>11-2-61</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Location</th>
<th>Sec.</th>
<th>T.</th>
<th>R.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>34</td>
<td>52</td>
<td>52</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Casing:</th>
<th>ft. to</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
</table>
| 0       | 16.5   | steel | 4 in.

<table>
<thead>
<tr>
<th>Casing:</th>
<th>ft. to</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Casing:</th>
<th>ft. to</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Static Water level, for non-flowing well:</th>
<th>feet</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>90</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Shut-in pressure, for flowing well:</th>
<th>lb./sq.in. on:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>158</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pumping water level:</th>
<th></th>
<th>feet at</th>
<th>gal. per min.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>120</td>
<td>167</td>
<td>15</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Length of test:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 hr.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing was set 18 ft. above sand water line; casing was about 18 ft. below.</td>
</tr>
</tbody>
</table>

(over)
## Log of Well

<table>
<thead>
<tr>
<th>Depth, Feet</th>
<th>From</th>
<th>To</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>16</td>
<td></td>
<td>yellow clay</td>
</tr>
<tr>
<td>16</td>
<td>40</td>
<td></td>
<td>blue clay</td>
</tr>
<tr>
<td>40</td>
<td>47</td>
<td></td>
<td>blue clay</td>
</tr>
<tr>
<td>47</td>
<td>51½</td>
<td></td>
<td>blue clay</td>
</tr>
<tr>
<td>51½</td>
<td>55</td>
<td></td>
<td>clay</td>
</tr>
<tr>
<td>55</td>
<td>68</td>
<td></td>
<td>blue clay</td>
</tr>
<tr>
<td>68</td>
<td>69</td>
<td></td>
<td>clay</td>
</tr>
<tr>
<td>69</td>
<td>72½</td>
<td></td>
<td>blue clay</td>
</tr>
<tr>
<td>72½</td>
<td>80</td>
<td></td>
<td>clay</td>
</tr>
<tr>
<td>80</td>
<td>105</td>
<td></td>
<td>blue clay</td>
</tr>
<tr>
<td>105</td>
<td>109</td>
<td></td>
<td>skeleton</td>
</tr>
<tr>
<td>107</td>
<td>116</td>
<td></td>
<td>blue clay</td>
</tr>
<tr>
<td>110</td>
<td>122½</td>
<td></td>
<td>sandy clay</td>
</tr>
<tr>
<td>122½</td>
<td>124</td>
<td></td>
<td>clay</td>
</tr>
<tr>
<td>124</td>
<td>125</td>
<td></td>
<td>clay</td>
</tr>
<tr>
<td>135</td>
<td>138</td>
<td></td>
<td>sandy clay</td>
</tr>
<tr>
<td>138</td>
<td>147</td>
<td></td>
<td>clay</td>
</tr>
<tr>
<td>147</td>
<td>152</td>
<td></td>
<td>clay</td>
</tr>
<tr>
<td>149</td>
<td>156</td>
<td></td>
<td>clay</td>
</tr>
<tr>
<td>156</td>
<td>158</td>
<td></td>
<td>sand</td>
</tr>
<tr>
<td>158</td>
<td>160</td>
<td></td>
<td>sandy clay</td>
</tr>
<tr>
<td>160</td>
<td>162½</td>
<td></td>
<td>mostly silt</td>
</tr>
<tr>
<td>162½</td>
<td>167</td>
<td></td>
<td>sand and water</td>
</tr>
</tbody>
</table>