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<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
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<td>334725</td>
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</tr>
</tbody>
</table>
**MONTANA BUREAU OF MINES AND GEOLOGY**

**WATER WELL LOG**

Owner: **Gordon D. Snellman**  
Address: **Medicine Lake**

Driller: **Gene Parent**  
Address: **Medicine Lake**

Date Started: **June 1946**  
Date Completed: **Aug. 1946**

Location: **Sec. 1, T. 32 R. 56 1/4 sec.**

**Type of well**  
(Dee. driven, bored, or drilled)

**Equipment used**  
(Chim drill, rotary, other)

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

<table>
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<tr>
<th>Casing:</th>
<th>110 ft. to</th>
<th>ft.</th>
<th>Type: Wood</th>
<th>Size: 24&quot;</th>
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<td>ft. to ft.</td>
<td>Type:</td>
<td>Size:</td>
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<tr>
<td>Casing:</td>
<td>ft. to ft.</td>
<td>Type:</td>
<td>Size:</td>
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</tr>
</tbody>
</table>

Perforated or Screened: Ft. 8' to ft. 10' and ft. 11' to ft. 12'

Type of screen or perforations: Later bored in casing

**Static Water level, for non-flowing well:** 6 ft.

Shut-in pressure, for flowing well: 25 lb./sq. in. on: (date)

Pumping water level: 6' feet at 20 gal. per min.

How tested: Submersible pump

Length of test: 9 hrs.

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

(over)
<table>
<thead>
<tr>
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<th>#83</th>
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</table>

**STATE OF MONTANA**

County of Sheridan

Filed on the 29th day of

December A.D. 1961

at 8:38 o'clock A.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)

1. Westminster, Elmer H., Medicine Lake
   (Name of Appropriate) (Address) (Town)
   County of Missoula, State of Montana
   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

2. The beneficial use on which the claim is based is for
   Stock & Household Use.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
   19
date

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 6
   gal. per min.

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:
   with pump and motor

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
   19

8. The depth of water table
   100 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
   Depth of Well

10. The estimated amount of groundwater withdrawn each year
   5,000

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

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

Signature of Owner

Date

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

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

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

Filed this __ day of
November A.D. 19__
at 1:00 o'clock M.

K. W. Miller
County Recorder
Deputy
DECLARATION OF VESTED GROUNDWATER RIGHTS

(A UNDER CHAPTER 237, MONTANA SESSION LAWS, 1961)

Alfred E. Pederson

of Medicine Lake

County of

State of

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:

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

1916

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

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:

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:

95' M

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

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:

1,500,000 gal

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: Alfred E. Pederson

Date: 4-3-63

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
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

[Name of Appropriator]
of
(Address)
(Town)

County of
State of

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

1. Declaration of Vested Groundwater Rights

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

3. Date or approximate date of earliest beneficial use, and how continuous the use has been: 1910, Continuous.

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: 1910.

8. The depth of water table: 8 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: 50,000 gpd.

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: 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.
Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: 1910

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.

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.
Declaration of Vested Groundwater Rights

(State Chapter 237, Montana Session Laws, 1961)

[Signature]

County of __________________________ State of Montana

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

1. The beneficial use for which the land is based.

2. The date or approximate date of earliest beneficial use, and how continuous the use has been.

3. The amount of groundwater claimed (in gallons per minute).

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

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

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.

8. 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.

9. The estimated amount of groundwater withdrawn each year.

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

11. 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 Approprietor.

Date: [Signature]
STATE OF MONTANA
County of Sheridan.
Filed this 30 day of
December A.D. 1962
at 12:15 o'clock P.M.

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

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

I, F. A. & Caroline Smullen
(Name of Appropriator)

of Medicine Lake,
(Address)

County of Sheridan,
(State of)

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

Sec. 13-32-56

1. The beneficial use on which the claim is based

Stock, Cattle and Horses

2. Date or approximate date of earliest beneficial use, and how continuously the use has been made

One well has been used since Jan. 1, 1952

The other well has been used since Jan. 1, 1958

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


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

One well water drawn with 1/2 HP and pump.
The other with Electric Water and pump.

6. The depth of water table

The second well is 109' deep.

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

(Combed Drilling Dec. 1957, completed Jan. 31, 1958)

8. The depth of water table

The second well is 109' deep.

9. The type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater

One well, 109' deep.
The second well is 109' deep.

10. The estimated amount of groundwater withdrawn each year

182500 Gallons

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

The second well 56' clay to 90' dry sand, 90' clay, 103 gravel, 100' clay.

109' coal and water, 130 clay and sand. 138, sandy clay & water 109' coal

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

Signature of Owner

Date

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

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

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

35603
File No.  

DUPLICATE

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

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

1. Wesley J. A. Jost, 2609 E. Madison St., Helena, MT 59604 (Name of Appropriator)  
   (Address)  
   (Town)

County of Jefferson  
State of Montana

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

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

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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: 1910

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

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: 1910

8. The depth of water table: 50 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 in diameter with 1 in. jet, jet pump

   10 in diameter with 1 in. jet, jet pump

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

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

   none 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: 12-30-1963

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.
Declamation of Vested Groundwater Rights

The United States of America

By J. T. Barnaby, Acting Regional Director

Office of Fish, Wildlife & Recreation

Department of Interior

Federal Office of the Interior

P. O. Box 277

1022 W. E. Holladay Street

Portland, Oregon 97202

(Name of Appropriator)

State of Oregon

County.

Baltzile

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 water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been:
   September 1936, continuous since

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 300 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:
   3 acres, 33 T. 29 N., R. 52 W., The United States of America, Medicine Lake National Wildlife Refuge.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal:
   Electrically driven centrifugal 2 pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
   September 1936. (the only date available)

8. The depth of water table:
   6 feet (affected by Medicine Lake water level)

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works or the withdrawal of groundwater:
   33 ft. diameter of about 10 ft. deep - lined with octagonal block. A second cylinder of similar dimensions was dug January 1949 to augment the well and the two cylinders are connected with open pipe. The second cylinder is the use and pump suction pipe is actually in.

10. The estimated amount of groundwater withdrawn each year:
    10 acre feet. Supplies 2 residences.

11. The job of formations encountered in the drilling of each well if available:
    Rocking available other than a thick vein of quartz and was encountered.

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.
STATE OF MONTANA  
County of Sheridan  
File this ________ day of December, D 19__

at 11:00 o'clock A.M.

Deputy  

[Handwritten content]
# GROUNDWATER INDEX

**County** SHERIDAN  
**Twp.** 39N  
**Rge.** 87E  

<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
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<td>STEVENS, LORING</td>
<td>GW 2</td>
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<td>BROWNFIELD, L.L.</td>
<td>Well Log</td>
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<td>SHEPHERD, CAROLINE</td>
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</table>
### Declaration of Vested Groundwater Rights

**State of Montana**
**State Publishing Co., Helens, Montana**

**Office of State Engineer**

**Declaration of Vested Groundwater Rights**

(under Chapter 237, Montana Session Laws, 1962)

1. **Name of Applicable Town**
   - *Indicate if available*

2. **Address**
   - *Indicate if available*

3. **Town**
   - *Indicate if available*

4. **County**
   - *Indicate if available*

5. **State**
   - *Indicate if available*

**State of Montana**

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

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<tr>
<th>400</th>
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<th>200</th>
<th>100</th>
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<tbody>
<tr>
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</tr>
</tbody>
</table>

1. **Name of Appropriator**
   - *Indicate if available*

2. **Address**
   - *Indicate if available*

3. **Town**
   - *Indicate if available*

4. **County**
   - *Indicate if available*

5. **State**
   - *Indicate if available*

6. **Date of Commencement and Completion of the Construction of the Well, Wells, or Other Works for Withdrawal of Groundwater.**
   - *Indicate if available*

7. **The Depth of Water Table.**
   - *Indicate if available*

8. **The amount of groundwater claimed (in miner's inches or gallons per minute).**
   - *Indicate if available*

9. **If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof.**
   - *Indicate if available*

10. **The estimated amount of groundwater withdrawn each year.**
    - *Indicate if available*

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

---

**Signature of Owner:**

**Date:**

---

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

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

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

County of Sheridan

Filed this 31st day of December 1963, A. D. 1963, at 4:00 o'clock P. M.

Ed Niller
County Recorder

Deputy
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 297, Montana Session Laws, 1961)

Owner: 
Address:

Driller: 
Address:

Date of Notice of Appropriation of Groundwater: 10-1-64
Date well started: 11-17-64
Date completed: 11-25-64

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>Equipment Used</th>
<th>Static Water Level for non-flowing well</th>
<th>Shut-in Pressure for Flowing Well</th>
<th>Pumping Water Level</th>
<th>Discharge in gal. per min. of flowing well</th>
<th>How Tested</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rot.</td>
<td>67 feet</td>
<td></td>
<td>112 feet at 4</td>
<td></td>
<td></td>
<td>Ground casing poured, casing made air-tight, spud made 2 ft. above casing then cementing and grouting was added.</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>Show exact depth of bottom.</td>
</tr>
</tbody>
</table>

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. Roger V. Nelson, (Name of Appropriator) 
   Medicine Lake, MT (Address) 
   of (Town) 
   County of (County of Appropriator) 
   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). 350 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. October 12, 1965.

8. The depth of water table 72'.

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 150,000 gal.

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: Roger V. Nelson

Date: 4-7-1965

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.
## WATER WELL LOG

**MONTANA BUREAU OF MINES AND GEOLOGY**  
Butte, Montana  

**STATE ENGINEER**

### Form No. 18

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

**County**

**RECEIVED**

**L. W. Bondfield, owner**

**Address**

**Driller**

**Address**

**Date Started**

**Date Completed**

**Location:** sec. 25 T. 38 R. 57 1/4 sec. SE^4, surp. 35

### Type of well

**Drilled**

**Equipment used**

- Dug  
- Driven  
- Bored  
- Drilled  
- Churn  
- Rotary or other

### Water use:

- Domestic  
- Municipal  
- Stock  
- Irrigation  
- Industrial  
- Drainage  
- Other

### Casing:

- **0 ft. to 81 ft.**  
  - Type: steel  
  - Size: 4"

- **Casing:** ft. to ft.  
  - Type: Size

- **Casing:** ft. to ft.  
  - Type: Size

### Perforated or screen:

- **Ft. 75 to Ft. 81.**  
  - Ft. to ft.

### Type of screen or perforations:

**Feet in Steel Casing**

### Static Water Level, for non-flowing well:

- 15 ft.

### Shut-in pressure, for flowing well:

- **15 ft.**

### Pumping water level:

- **20 ft.** feet at 15 gal. per min.

### How tested:

- Pump

### Length of test:

- 3 hours

### Remarks:

- Gravel packing, cementing, packers, type of shut-off, depth of shut-off

- **8" hole was drilled to 81 ft.**  
  - "Casing was cemented  
  - 8" and fine gravel was pumped around casing up above perforations and then 8" steel filling was filled around 8" ft. to 8 ft. grate.
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 20</td>
<td>yellow clay</td>
</tr>
<tr>
<td>20 - 68</td>
<td>sand</td>
</tr>
<tr>
<td>68 - 80</td>
<td>fine gravel, 3 water well</td>
</tr>
<tr>
<td>80 - 81</td>
<td>sand</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

<table>
<thead>
<tr>
<th>1. F.A. Caroline Spellman</th>
<th>2. The beneficial use on which the claim is based</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Name of Appropriator)</td>
<td>Stock, Cattle and Horses</td>
</tr>
</tbody>
</table>

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, Cattle and Horses

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
   1961. And has been used 6 or 7 months a year every year since in the summer

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
   None

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
   A Well on east side of said 27
   Drawn by windmill and pump
   Also surface water on N.E. 1/4 of sec. 26, 32, 57

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
   In fall of 1961 and completed in spring of 1962

8. The depth of water table
   6 ft. when the ground water is high

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
   8 hp. 10' Deep
   Wood Casing
   Also surface water on N.E. 1/4 of sec. 26, 32, 57

10. The estimated amount of groundwater withdrawn each year
    150,000 Gallons

11. The log or formations encountered in the drilling of each well if available
    Sandy soil about 5' and quick sand the rest of the way

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

Signature of Owner

Date

Three copies to be filed by the owner with the County Clerk and Recorder of the County in which the well is located.
Please answer all questions. If not applicable, so state, otherwise the form will be returned.
<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>RASMUSSEN, HAROLD</td>
<td></td>
<td>334835</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>RASMUSSEN, HAROLD</td>
<td></td>
<td>334834</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>NIELSEN, JENS L.</td>
<td></td>
<td>334803</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>SORENSEN, JEPPE H.</td>
<td></td>
<td>334800</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>SORENSEN, SAM</td>
<td>well log</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>RASMUSSEN, SOREN H.</td>
<td></td>
<td>334920</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>ODENING, STIGAL</td>
<td>well log</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>BRINKMAN, CHRIS</td>
<td></td>
<td>334799</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>BRINKMAN, C.</td>
<td>well log</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>LARSEN, MELVIN</td>
<td></td>
<td>334541</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>CHRISTENSEN, FOLMER</td>
<td></td>
<td>334895</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>HANSEN, MARIA MRS</td>
<td></td>
<td>334802</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>PETROL, PHILLIPS</td>
<td>G.W. 2</td>
<td>334694</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>LEWIS, JAMES A.</td>
<td>G.W. 2</td>
<td>333219</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>LEWIS, JAMES A.</td>
<td>G.W. 1</td>
<td>333222</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>GONZALO DRILLING + EXPLOR</td>
<td>well log</td>
<td></td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>HEIKE, DONALD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>LEWIS, DONALD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>LEWIS, JAMES A.</td>
<td>G.W. 2</td>
<td>333016</td>
<td></td>
</tr>
</tbody>
</table>
Declaration of Vested Groundwater Rights

(Hier under Chapter 237; Montana Session Laws, 1961)

Harold Ramussen of Dagmar, Montana
County of Carbon, 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

and household use

3. Date or approximate date of earliest beneficial use: Jan. 10, 1957

4. The amount of groundwater claimed (in miner’s inches or gallons per minute): 5 gal per minute

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

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

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

Commencement Date: Jan. 1957

Completion Date: Jan. 1957

8. The depth of water table: 40 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 well; black 140 ft. deep

10. The estimated amount of groundwater withdrawn each year: 12,300

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: Harold Ramussen

Date: Dec. 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)

Harold Ramussen
of Dagmar, Montana

County of Sheridan

State of Montana

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

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

3. Date or approximate date of earliest beneficial use or law continuous the use has been
   April 1933

4. The amount of groundwater claimed (in inches per minute)
   1 gal per minute

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
   Commencement: April 20, 1933
   Completion: June 15, 1933

8. The depth of water table
   50 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
   Well Size, Type, and Depth

10. The estimated amount of groundwater withdrawn each year
   19,250 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

Signature of Owner: Harold Ramussen
Date: Dec 30, 1968

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 30 day of December, A. D. 1913, at 4:00 o'clock P. M.

县
County Recorder

Deputy
### Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

<table>
<thead>
<tr>
<th>File No: T-32^R 58</th>
</tr>
</thead>
<tbody>
<tr>
<td>DUPLICATE</td>
</tr>
</tbody>
</table>

**STATE OF MONTANA**

**ADMINISTRATOR OF GROUNDWATER CODE**

**OFFICE OF STATE ENGINEER**

---

**Jens L. Nielsen**

(Name of Appropriator)

DYZMARK, MONT.

(Address)

(Sheridan)

(State of)

**County of Sheridan**

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* & *Household USE*

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1920. *Continuous*

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

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: S.E. 34-35-28, Jens L. Nielsen.

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1920

8. The depth of water table: 22 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: Case 6 inch, 80 FT

10. The estimated amount of groundwater withdrawn each year: 1 \(\text{M. I. C. N.}\)

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:** Jens L. Nielsen

By: C. W. Nielsen

DATE: 30 DEC 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:**

33052
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Jeppie H. Sorensen, a R. 1 Dagmar
   (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:

2. The beneficial use on which the claim is based. Spraying, Human Consumption, Irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. 1934 on

4. The amount of groundwater claimed (in miner's inches or gallons per minute). 40 gal per minute

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. Deep well No. 1.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Completed - 1961 & completed - 1963

8. The depth of water table. 30 feet from ground level

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. 100 ft.

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

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. Jeppie H. Sorensen
Date: Dec. 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, on 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

A. D. 1963

at 12:05 o'clock A.M.

J. A. Nickle
County Recorder

Deputy
<table>
<thead>
<tr>
<th>Form No. 18</th>
<th>T. 32 N  R. 58 E</th>
</tr>
</thead>
<tbody>
<tr>
<td>8-50</td>
<td>County: Butler</td>
</tr>
</tbody>
</table>

**MONTANA BUREAU OF MINES AND GEOLOGY**  
Butte, Montana  

**WATER WELL LOG**  

| Owner          | Sam Souven | Address:  
|----------------|------------|
| Driller        | Western Drilling Co. | Address:  
| Date Started   | 11-3-61 | Date Completed: 11-9-61 |
| Location       | Sec. 11  T. 32  R. 58  | sec. 19  W. 1/2 61 |

**Type of well**: Drill  
**Equipment used**: Rotary  

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

**Casing**:  
- 0 ft. to 95 ft. Type steel, Size 4"  
- ft. to ft. Type Size  
- ft. to ft. Type Size  

**Perforated or Screened**: Ft. 90 to 95. Ft. to ft.

**Type of screen or perforations**

**Static Water level, for non-flowing well**: 50 feet.

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

**Pumping water level**: 70 feet at 7 gal. per min.

**How tested**: Pump

**Length of test**: 2 hours

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

"Hole was drilled to 95 ft. casing was cemented in middle of hole. Second nail was placed around casing above perforation, remainder of hole around casing was filled with dirt."

(over)
Log of Well

<table>
<thead>
<tr>
<th>Depth, Feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From 0 to 30</td>
<td>yellow clay</td>
</tr>
<tr>
<td>From 30 to 42</td>
<td>yellow sand</td>
</tr>
<tr>
<td>From 42 to 52</td>
<td>yellow sandy clay</td>
</tr>
<tr>
<td>From 52 to 55</td>
<td>blue sand clay</td>
</tr>
<tr>
<td>From 55 to 65</td>
<td>sand filled</td>
</tr>
<tr>
<td>From 65 to 70</td>
<td>loam, silt, and sand</td>
</tr>
<tr>
<td>From 70 to 80</td>
<td>loam sand</td>
</tr>
<tr>
<td>From 80 to 95</td>
<td>据此无记录水</td>
</tr>
</tbody>
</table>
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

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

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

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

   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] [Description]

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

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

   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 or 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:
       [Information]

   Signature of Owner:
   [Signature]
   [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.
STATE OF MONTANA, County of Sheridan:
Filed this 31st day of December A.D. 1955
at 1:00 o'clock P.M.

Deputy County Recorder
**WATER WELL LOG**

**Owner:** Leland Dilling

**Driller:** Western Drilling Co.

**Date Started:** 4-10-61

**Location:** Sec. 13, T. 32 N, R. 56 E

**Type of well**

<table>
<thead>
<tr>
<th>Driller</th>
<th>Equipment used</th>
<th>rotary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Drilling Co.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Water use:**

- [ ] Domestic
- [ ] Municipal
- [ ] Stock
- [ ] Irrigation
- [ ] Industrial
- [ ] Drainage
- [ ] Other: To be used to drill oil well

**Casing:**

- [ ] 0 ft. to 295 ft. Type: steel Size: 4-1/8"

**Perforated or Screened:**

- [ ] none

**Type of screen or perforations:**

- [ ] none

**Static Water level, for non-flowing well:** 60'

**Shut-in pressure, for flowing well:**

- [ ] lb./sq. in.: (date)

**Pumping water level:** 100 feet at 15 gal gal. per min.

**How tested:** bailer

**Length of test:** 1 hour

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

- Casing was put into gravel 24', thus water comes up through gravel entering bottom of casing.

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>To</td>
</tr>
<tr>
<td>45</td>
<td>yellow clay</td>
</tr>
<tr>
<td>45 - 102</td>
<td>sticky blue clay</td>
</tr>
<tr>
<td>102 - 104</td>
<td>quick sand - some water</td>
</tr>
<tr>
<td>104 - 142</td>
<td>sticky blue clay</td>
</tr>
<tr>
<td>142 - 160</td>
<td>sand loose - water</td>
</tr>
<tr>
<td>160 - 292</td>
<td>blue sandy clay</td>
</tr>
<tr>
<td>292  - 298</td>
<td>gravel WATER WELL</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. 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) 10'4" both wells

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 1908

8. The depth of water table about 100', both wells, water vein; water 60' from surface.

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 about 100' best depth

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

11. The log or formations encountered in the drilling of each well if available none 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 available

Signature of Owner Date December 31, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the County in which the well is located. Please answer all questions. If not applicable, so state, otherwise the form will be returned.
STATE OF MONTANA,
County of Sheridan,

Filed this 8th day of November, A.D. 1903,
at 100 o'clock M.

Levi Noble
County Recorder

Deputy
# WATER WELL LOG

**Montana Bureau of Mines and Geology**

**Butte, Montana**

**State Engineer**

**Owner:** Mr. Brinkman Lassie  
**Address:** Dayton

**Driller:** Western Drilling Co  
**Address:** Med PAintment

**Date Started:** 4-10-61  
**Date Completed:** 4-14-61

**Location:** Sec. 4  
**Legal description:** T 32 N  
**Rank:** E 38 E

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Equipment used</th>
<th>Casing</th>
<th>Casing:</th>
<th>Perforated or Screened:</th>
<th>Type of screen or perforations:</th>
<th>Static water level, for non-flowing well:</th>
<th>Shut-in pressure, for flowing well:</th>
<th>Pumping water level:</th>
<th>How tested:</th>
<th>Length of test:</th>
</tr>
</thead>
</table>

**Remarks:** (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)  
Water above was shut 1 at 1 ft lengthing 1 foot from bottom of casing in sq.
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 48</td>
<td>yellow clay</td>
</tr>
<tr>
<td>48 - 90</td>
<td>light blue clay</td>
</tr>
<tr>
<td>90 - 93</td>
<td>sand</td>
</tr>
<tr>
<td>93 - 94</td>
<td>sticky blue clay</td>
</tr>
<tr>
<td>94 - 96</td>
<td>sand and fine gravel</td>
</tr>
<tr>
<td>96 - 108</td>
<td>sticky blue clay</td>
</tr>
<tr>
<td>108 - 133</td>
<td>sandy clay</td>
</tr>
<tr>
<td>133 - 133</td>
<td>rock</td>
</tr>
<tr>
<td>133 - 141</td>
<td>sandy clay</td>
</tr>
<tr>
<td>141 - 150</td>
<td>sand and gravel, water</td>
</tr>
<tr>
<td>150 - 194</td>
<td>sandy clay</td>
</tr>
<tr>
<td>194 - 199</td>
<td>sand</td>
</tr>
<tr>
<td>199 - 205</td>
<td>gravel, water, well</td>
</tr>
</tbody>
</table>
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1941)

Owner: Melvin Hauer
Address: Bigman Mont.

Driller: HABERT ANDERSON
Address: Medicine Lake

Date of Notice of Appropriation of Groundwater: May 25, 1964
Date well started: May 25, 1964

Type of well: Drilled (drill, drive, bored or auger)
Equipment Used: (drill, auger)

Water Use: Domestic ☐ Municipal ☐ Other ☐ Irrigation ☒

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

Area of Drilled Site: 5.2 acres

Static Water Level for non-flowing well:

Shut-in Pressure for flowing well:

Pumping Water Level:

Discharge in gals. 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 pertinent information, including number of acres irrigated, if used for irrigation)

Driller's License Number: 38240
Driller's Signature: HABERT ANDERSON

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)

FOLMER CHRISTENSEN
(Name of Appropriator)

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

   household and livestock, irrigation

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

   1906; continuous use

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

   water is 16' in depth

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

   about two acres, Section 20, Township 32 N., Range 56 W.

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

   pump

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

   1906; recurring about 1960

8. The depth of water table

   15'

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

   800,000 gallons

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

   none 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 available

Signature of Owner

Date

December 31, 1963

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

Please answer all questions. If not applicable, so state, otherwise the form will be returned.
STATE OF MONTANA
County of Flathead

This the 31st day of December, A.D. 19__

at 1:00 o'clock 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)

MRS. MARIA HANSEN, 662, D. I. DAGMAR
(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:

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1920

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

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: 160 acres; MRS. MARTIN HANSEN.

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1920 AND 1941

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: Power 58 ft. 34 H. P.

10. The estimated amount of groundwater withdrawn each year: 5000 gal.

11. The log of formations encountered in the drilling of each well if available: None

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

Signature of Owner: [Signature]
Date: 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 WASHINGTON

County of Whatcom

Filed this 30th day of December, A.D. 19_13

at 10:05 o'clock A.M.

[Signature]
County Recorder

[Signature]
Deputy
Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 337, Montana Session Laws, 1961)

Top of Ground
(Elev. above sea level)

<table>
<thead>
<tr>
<th>Material</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sandy Clay</td>
<td>50</td>
</tr>
<tr>
<td>Shale</td>
<td>180</td>
</tr>
<tr>
<td>Silt</td>
<td>180</td>
</tr>
<tr>
<td>Muck Clay</td>
<td>265</td>
</tr>
<tr>
<td>Sand</td>
<td>265</td>
</tr>
<tr>
<td>Clay</td>
<td>270</td>
</tr>
<tr>
<td>Sand &amp; Gravel Water</td>
<td>330</td>
</tr>
</tbody>
</table>

Owner: Phillips Parcel Address: Box 230 Cut Bank, Montana
Driller: Albert Anderson Address: Helena, MT

Date of Notice of Appropriation of Groundwater: June 11, 1964
Date Well Started: June 3, 1964, Date Completion: June 11, 1964

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.

---

### PERFORATIONS

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>Kind of She</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 3/4</td>
<td>4 inch</td>
<td>0</td>
<td>330</td>
<td>None</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well: 50 feet
Shut-in Pressure for flowing well: 0
Pumping Water Level: 60 feet at 10 gal. per minute.
Discharge in gal. per min. of flowing well: Pump 8 HR.

How Tested: Pump Test
Length of Test: 100 feet
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.)

**Drilled with Compressed Air to develop at shut off**

100 gal. per min. for 1 hour

Driller's License Number: 91393

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.
Notice of Completion of Groundwater Appropriation by Means of Well

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

**Owner:** 

**Driller:** 

**Date of Notice of Appropriation of Groundwater:** 

**Type of Well:** Driller 

**Equipment Used:** (Drill, 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></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Static Water Level for non-flowing Well:** 60 feet.

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

**Pumping Water Level:** 180 feet at 10 gpm.

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

**How Tested and 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)

Show exact depth of bottom.

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

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

1. Name of Appropriator: James A. Lewis
   Address: 600 Main St. (Town)
   County of Appropriate: Sheridan
   State of Montana: Montana

2. The beneficial use to which water is to be applied is: This water is used
   (describe lands to be benefited, if for irrigation)

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

4. The annual period (inclusive dates) of intended use: 24.3 hrs. per day

5. The probable or intended date of first beneficial use: Letter for Aug.

6. The probable or intended date of commencement and completion of the well or wells:
   Commencement: Aug 1st, Completion: Aug 15th

7. The location, type, size and depth of well or wells contemplated: Oil well site
   40' x 30' - 300' deep

8. The probable or estimated depth of the water table or artesian aquifer: 60' - 300'

9. Name, address and license number of the driller engaged: Edward H. Broder
   Box 132, 1000 N. Dr. License #138

10. Give such other similar information as may be useful:

   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.

   Signature of Appropriator: ____________________________
   Date: ____________________________

   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.

   Signature of Appropriator: ____________________________
   Date: ____________________________