Water Well Log

Owner: Benjamin Vaughn  Address: R. R. 1, Box 130, Libby, Mont.

Driller: Art Ottenbacher  Address: Kalispell, Montana

Date Started: July 17, 1952  Date Completed: July 20, 1952

Location: Sec. 4 T. 30 R. 31  1/2 sec. NW Corner of NWNW

Type of well  Drilled  Equipment used  Drill

| Gas, driven, or drilled |

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

Industrial [ ]  Drainage [ ]  Other [ ]

Casing:  0 ft. to 51 ft.  Type  Well Casing  Size .6s

Casing:  51 ft. to 5 ft.  Type  Size

Casing:  5 ft. to 37 ft.  Type  Size

Perforated or screened:  Ft.  to  ft.  Ft.  to  ft.

Type of screen or perforations

Static water level, for non-flowing well:  _______ feet.

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

Pumping water level  100 feet at  20 gal. per min.

How tested:  Baler

Length of test  _______ hours

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

Gravel Packing 30'; Cementing 5'

(over)
<table>
<thead>
<tr>
<th>Depth (feet)</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 – 35'</td>
<td>Gravel</td>
</tr>
<tr>
<td>35' – 40'</td>
<td>Hard Pan or Cementing</td>
</tr>
<tr>
<td>40' – 51'</td>
<td>Gravel</td>
</tr>
<tr>
<td>Name of Appropriator</td>
<td>Address</td>
</tr>
<tr>
<td>----------------------</td>
<td>---------</td>
</tr>
<tr>
<td>Alfred L. Young</td>
<td>R.F. #1, Box 166</td>
</tr>
</tbody>
</table>

County of: Lincoln  
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: domestic and sprinkling irrigation.

2. Date or approximate date of earliest beneficial use; and how continuous the use has been: Aug. 28, 1956, continuous since.

3. The amount of groundwater claimed (in miner's inches or gallons per minute): 2 gals. 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: N.W. 1/4, Sec. 14, T. 30 N., R. 31 E., State of Montana.

5. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: well, deep well jet system.

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

7. The depth of water table: 25 ft.

8. The log of formations encountered in the drilling of each well if available: sand, gravel, and hard rock.

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:

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 The estimated amount of groundwater withdrawn each year: 500,000 gals.

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 L. Young  
Date: 10-31-63

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 LINCOLN

Filed this 31st day of December A.D. 1959
At 7:03 P.M. by

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

Top of Ground
(Elev. above sea level)

Owner: Robert N. Dean
Address: 125 N. 16th St.

Driller: Esther J. Hogan
Address: 128 E. 16th St.

Date of Notice of Appropriation of Groundwater: January 6, 1961
Date well started: January 6, 1961
Date completed: September 10, 1961

Type of well: Drilled
Equipment Used: Churn

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.

Hole Casing Kind

<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>2 inch</td>
<td>2 inch</td>
<td>0</td>
<td>16</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 12 feet
Shut-in Pressure for Flowing Well: 1.6 feet

Pumping Water Level: 14 feet at 26 gal. per minute.
Discharge in gal. per min. of flowing well: 26 gal.
How Tested: Discharge

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)

Show exact depth of bottom: 16

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.

35154
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Robert H. Deane & Evelyn short of 641 S. 16th St., Fifty mont
Address)
(Town)
County of "Lincoln"
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: Farm and for rent

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: May 10, 1960, and since

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 30 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: May 10, 1960, and Electric Pump Installed

8. The depth of water table: 28 feet

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

10. The estimated amount of groundwater withdrawn each year:

11. The log of formations encountered in the drilling of each well if available: Sand Screen for 29 feet, then Clay and Hard Screen for 2 feet.

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: Robert H. Deane & Evelyn short
Date: Dec 30 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.
**Notice of Completion of Groundwater Appropriation by Means of Well**

(Under Chapter 237, Montana Session Laws, 1961)

**Owner:** Robert Walczewski  
**Address:** Libby, Montana

**Driller:** William A. Milke  
**Address:** Libby, Montana

**Date of Notice of Appropriation of Groundwater:** June 6, 1966  
**Date Completed:** June 8, 1966

**Type of Well:** Drilled  
**Equipment:** Churn (Aug., driven, bored or drilled)

**Water Use:** Domestic [ ] Municipal [ ] Other [ ] Irrigation [ ]

---

**Top of Ground**

( Elev. above sea level ______________)

- **0'-17' Clay, gravel, and boulders.**
- **17'-24' Gravel.**
- **24'-43' Sand and water.**
- **43'-48' Gravel, sand, and water.**

---

**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...** 24 feet.

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

**Pumping Water Level...** 25 feet at 15 gal. per minute.

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

**How tested...** Pump  
**Length of Test...** 1 hr.

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

---

**Driller's License Number**

**Driller's Signature**

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

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

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

Owner: Dona Wegman
Address: 

Driller: John Moore
Address: 

Date of Notice of Appropriation of Groundwater: June 7, 1962

Date well started: June 8, 1962

Type of well: Drilled

Equipment Used: Churn

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: 22 feet
Shut-in Pressure for flowing well: 
Pumping Water Level: 20 feet at 26 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)

---

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

DEVELOPED AFTER JANUARY 1, 1962

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

Owner: William D. Lake
Address: Libby, Montana

Date of Notice of appropriation of groundwater: June 3, 1962

Date well started: June 3, 1962
Date completed: June 5, 1962

Type of well: Drilled
Equipment used: Churn

Water use: Municipal

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

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Site and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot; I.D.</td>
<td>6 5/8&quot; O.D.</td>
<td>0</td>
<td>45</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1700 lbs.</td>
<td>per foot</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well

Shut-In Pressure for Flowing Well

Pumping Water Level

Discharge in gal. per min. of flowing well

How Tested: Pump

Length of Test: 2 Hours

Remarks: (Gravel packing, cementing, pack-off, type of shutoff)

Subject Sec. 5, T. 50, R. 71.
Indicate location of well and place of use if possible. Each small square represents 40 acres.

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, tissue copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.
Notice of Completion of Groundwater Appropriation Without Well

Date of Appropriation of Groundwater: September 15, 1967
Owner: Leonard Baskill  Address: Pt. 3, Sec. 34 T1N R16
Contractor (if any): none
Address of Contractor: none
Date Started: October 15  Date Completed: June 1968

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. This is a spring. a box was set in the ground with rock filter field. Box is approx. 4 by 4 ft. Water will be taken out at bottom. plastic pipe will be used for line.

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:

100 gal per hour, water was measured with a 50 gal drum, the use would be continu

SE. 1/4, Sec. 8 T1N R16
Indicate point of appropriation and place of use, if possible.

Signature of Owner: Leonard Baskill  Date: 20 Feb 1968

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 Appraiser.
Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: September 15, 1961
Owner: Leon P. McKill
Address: 510 E. 150TH
Libby, Montana

Contractor's Name: None
Address of Contractor: None

Date Started: October 15, Date Completed: 12 July, 1962

Describe means of obtaining groundwater Without a well, by sucker, and other natural processes:

Details of other applicable mention of obtaining groundwater

Set in the ground with rock, filled with field

No other detail, other than will be taken out

better, plastic pipe will be used for line

Quantity of water developed and used:

It is estimated that water will be used to the extent of 150-300 gals per hour. Water not required

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

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: Leon P. McKill
Date: 20 Feb, 1962

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

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: Leon P. McKill
Date: 20 Feb, 1962
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATERS CONSERVATION BOARD

Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962
(Under Chapter 237 Montana Session Laws, 1961, as amended)

Owner: Libby Mont 759923
Address: Driller's Address

Date of Notice of appropriation of groundwater: July 17, 1971
Date well started: July 17, 1971
Date completed: Oct 15, 1971

Type of well: Dug
Equipment used: Back Hoe and shovel
(Chisel drill, rotary or other)

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

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

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Diameter</th>
<th>Top of Drilled Hole</th>
<th>Weight of Drilling</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>Perforations</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 FT</td>
<td>3 FT</td>
<td>Concrete</td>
<td>6</td>
<td>3</td>
<td>9</td>
<td>7 Holes in concrete about 1 Inch</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well

Shut-in Pressure for Flowing Well

Pumping Water Level

Discharge in gal. per min. of flowing well

How Tested: 3 HP Submersible

Length of Test Pump

Remarks: Gravel packing, cementing, packers, type of cutoff,
Continuous running of pump showed no drop in water level, pump going about 11 hundred feet with about 235 feet rise, 13 inch galvanized pipe. (Continue on reverse side)

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

For Domestic Water, Horses, Garden Lawn, House located in NW2 NE15/27 M. P. R. 31

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, tissue copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.
**DRILLER'S LOG**

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

<table>
<thead>
<tr>
<th>Top of Ground</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 8</td>
<td>8 16 1 12 1 3</td>
<td>1 6 30</td>
</tr>
</tbody>
</table>

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

**LICENSE NO. 233**

---

**Owner:** Bondell Temple

**Address:** Libby, Mont

**File:** 901

**Date well started:** Oct 25, 1972 - 10:15 AM

**Date well completed:** 8-08-72

**Type of well:** Drilled

**Equipment used:** Churn Drill

**Water Use:** Domestic [ ] Municipal [ ] Stock [ ] Irrigation [ ]

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

*Describe [ ]

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

**ESTIMATED ANNUAL WITHDRAWAL**

<table>
<thead>
<tr>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 x 8</td>
<td>1 5</td>
<td>1 9</td>
<td>2 x 1 4</td>
</tr>
</tbody>
</table>

**Static water level:** 25 ft

**Pumping water level:** 10 ft

**at:** 100 gallons per minute, measured minutes after pumping began.

*Measured from ground level.

**Well developed by:** Baling for 3 hours.

**Power:** 2.30 HP Pump 3

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

**Driller's Signature:**

**Driller's Address:**

---

**LICENSE NO. 233**

51, 710
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. **Randall Teeple and Edith Teeple**, Route 1, Box 288, Libby, MT
   
   County of **Lincoln** State of **Montana**
   
   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

```
<table>
<thead>
<tr>
<th>NE NW</th>
<th>SE NW</th>
<th>SE NE</th>
</tr>
</thead>
<tbody>
<tr>
<td>W</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
```

- **Beneficial use on which the claim is based:** Domestic and irrigation water, fire protection.
- **Date or approximate date of earliest beneficial use:** November 1954.
- **Amount of groundwater claimed:** 100 gallons per minute.
- **Means of withdrawing such water:** Elbow Pipe, Gravity Flow.
- **Point of appropriation:**
- **Location of each well or other means of withdrawal:** NE NW Sec 15 T 30 R 31.
- **Water table variation:** Spring on side hill, flow varies.
- **Depth of water table:** 3 feet.
- **Type, size and depth of each well or the general specifications of any other works for withdrawal:**
  - Cement reservoir, 400 feet long, 3 feet wide, 1 foot deep.
  - Concrete wall on upper side plus 4 inch perforated pipe.
  - 5 inch pipe into upper bank of stream.
  - 2 inch pipe from valve to house.

10. **Estimated amount of groundwater withdrawn each year:** 100,000 gallons.

11. **Log of formations encountered:**
    - Structure is resting on dense subsoil.
    - Larger reservoir near house for more storage.
    - Increased flow time.

12. **Other information:**
    - Such other information of a similar nature as may be useful in carrying out the policy of this act.

**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
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Howard L. and Irene Loveless, of Box 64, Libby, Montana
   (Name of Appropriator) (Address) (Town)

   County of Lincoln, State of Montana

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

   N
   |   |   |   |   |   |   |   |   |
   W
   |   |   |   |   |   |   |   |   |
   E

   2. The beneficial use on which the claim is based: Household use, lawn sprinkling and irrigation.

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 7/15/1950.

   4. The amount of groundwater claimed (in miner's inches or gallons per minute): 10 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: 4 acres of pasture land, occasional irrigation and lawn.

   6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: Electric pump. Well located 25 ft. from house.

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 7/1/1950 started. Completed 7/15/1950.

   8. The depth of water table: Approximately 10 feet.

   9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: dug well, 24 ft. deep.

   10. The estimated amount of groundwater withdrawn each year: 365,000 gallons.

   11. The log of formations encountered in the drilling of each well if available: Rock, Gravel and Sand.

   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: Book: 136. Page: 216. Lincoln County Courthouse, Libby, Montana.

   Signature of Owner: Howard L. Loveless

   Date: 12/31/1963

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
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

Owner: Lewis Landon
Address: Libby, Montana
Date well started: August 11, 1971
Date well completed: August 11, 1971

Type of well: Drilled
Equipment used: Churn

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

Describe: [Space for description]

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

ESTIMATED ANNUAL WITHDRAWAL

<table>
<thead>
<tr>
<th>Size of Hole</th>
<th>Rate and Depth of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>Perforations</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 5/8&quot;</td>
<td>6 5/8&quot;</td>
<td>1</td>
<td>292</td>
<td>286</td>
</tr>
<tr>
<td>6 5/8&quot;</td>
<td>6 5/8&quot;</td>
<td>1</td>
<td>292</td>
<td>286</td>
</tr>
</tbody>
</table>

Static water level: 261 ft.
Pumping water level: 300 ft.
at 150 gpm, measured 30 minutes after pumping began.

Power: 15 HP, Pump: 100 ft., Remarks: (Gravel packing, cementing, packers, type of shutoff)

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE. EACH SMALL SQUARE REPRESENTS 10 ACRES.

Driller's Signature: Clifford Bucher
Driller's Address: C & L Plumbing & Heating, Inc.

Box 10, Libby, Montana 59923 LICENSE NO. 141

Show exact depth of bottom

Page 1 of 2 Revised 1969

STATE OF MONTANA

DRILLER'S LOG

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

Top of Ground (Elev. above ssa level) -

<table>
<thead>
<tr>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>1.45</td>
</tr>
</tbody>
</table>

Show exact depth of bottom
**NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL**

**Developed after January 1, 1962**

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

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

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

---

### Driller's Log

**Owner:**

**Address:**

**Date well started:**

**Completed:**

**Type of well:**

**Equipment used:**

**Water Use:**

** Estimated Annual Withdrawal:** 80,000 gal. per year

<table>
<thead>
<tr>
<th>Size of Well</th>
<th>Size of Water Level</th>
<th>To (Feet)</th>
<th>Perf.</th>
<th>Kind of Water Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot; x 11/2&quot;</td>
<td>15'</td>
<td>209</td>
<td>11 ft.</td>
<td>5&quot; liner from 198' to 209'</td>
</tr>
</tbody>
</table>

---

**Static water level:** 194 ft.

**Pumping water level:** 199 ft. at 8 gallons per minute, measured 3 minutes after pumping began.

*Measured from ground level.*

**Well developed by:**

**Power:**

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

---

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

Each small square represents 40 acres.

---

**License No.: 252**

**Show exact depth of bottom:** 209'
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. James Challiner
   (Name of Appropriator)
   Route 1 Box 36
   Libby
   (Address) (Town)

   County of...Lincoln...
   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...1960 constant

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

5. If used for irrigation, give the acreage and description of the land 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...free flowing spring into a stock tank

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

8. The depth of water table...spring on top of ground

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...dug out with dewater and piped into water

10. The estimated amount of groundwater withdrawn each year...free flowing spring...none

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...none

Signature of Owner

Date Dec 26, 1963

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

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

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

**Owner:** Tim Deaky
**Address:** Libby, Mont.

**Driller:** C. M. Chaisty Jr.
**Address:** Libby, Mont.

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

- **Date well started:** 9-25-64
- **Date completed:** 10-26-64

**Type of well:** Drilled
**Equipment Used:** Churn

**Water Use:**
- Domestic √
- Municipal □
- Other □
- Irrigation □

**Site of Drilled Wells:**
- 10-125 - 1-0 [Clay]
- 185-190 [blue clay]
- 190-125 [white clay, sand, gravel, rock, etc.]
- 205-220 [blue clay]

**Kind of strata met with in drilling:**
- Soil
- Clay
- Shale
- Gravel
- Rock
- Sand

**Static water level for non-flowing well:** 2.40 feet

**Shut-in pressure for flowing well:** [Not specified]

**Pumping water level:** 2.80 feet at 3 gal. per minute.

**Discharge in gal. per min. of flowing well:** [Not specified]

**How tested:** Field
**Length of Test:** [Not specified]

**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 BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

<table>
<thead>
<tr>
<th>Owner</th>
<th>Edward J. Walton</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>P.O. Box 1217</td>
</tr>
<tr>
<td>City/State</td>
<td>Deakle, Montana</td>
</tr>
<tr>
<td>Date well started</td>
<td>October 7, 1972</td>
</tr>
<tr>
<td>Date well completed</td>
<td>October 11, 1972</td>
</tr>
</tbody>
</table>

## Type of Well
- **Shell**
- **Drilled, bored or drilled**

## Equipment Used
- **Air-rotary**
- **(Chern drill, rotary or other)**

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

### USE:
If used for irrigation, industrial, drainage, or other. Explain, state number of acres and location or other data (i.e., lot, block and addition).

## ESTIMATED ANNUAL WITHDRAWAL

<table>
<thead>
<tr>
<th>Size of Pipe (Inches)</th>
<th>Size and Weight of Casing (Feet)</th>
<th>Depth From Top of Ground (Feet)</th>
<th>Fitted Size</th>
<th>Type of Casing (Feet)</th>
<th>Fitted Size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>16</td>
<td>0</td>
<td>63</td>
<td>3</td>
<td>20</td>
<td>slots 20 holes from 50 to 55 feet</td>
</tr>
</tbody>
</table>

### Static Water Level
- 27 feet

### Pumping Water Level
- 39 feet

*Measured from ground level, gallons per minute, measured 30 minutes after pumping began.

*Measured from ground level, gallons per minute, measured 30 minutes after pumping began.

Well developed by **Concrete** for 3 hours.

Power: **Pump** HP

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

**DEEPER CEMENT**

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

Each small square represents 40 acres.

Driller's Address: 

Driller's Signature: 

<table>
<thead>
<tr>
<th>License No.</th>
<th>522</th>
</tr>
</thead>
</table>

Show exact depth of bottom on map.

51709
This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, last copy to be retained by driller.

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

**DRILLER’S LOG**

**State of Montana**

**State Public Information Company**

**NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL**

**Developed after January 1, 1962**

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

---

**Owner:**

**Address:**

**Date well started:**

**Date well completed:**

**Type of well:**

**Equipment used:**

**Water Use:**

**Estimated Annual Withdrawal:**

**Perturbations**

<table>
<thead>
<tr>
<th>Size of Pipe</th>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>Kind of Liner</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6”</td>
<td>15</td>
<td>222</td>
<td></td>
<td>6” perforated liner</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Static water level:**

**Pumping water level:**

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

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

**Driller’s Signature:**

**Driller’s Address:**

---

*Show exact depth of bottom*
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Leo Orahorn, of Route 1, Box 281, Libby
   (Name of Appropriator) (Address) (Town)

Counties of Lincoln
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>E</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<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
   **domestic use and lawn irrigation**

3. Date of earliest beneficial use, and how continuous use has been **continuous since July 10, 1957**

4. The amount of groundwater claimed (in miner's inches or gallons per minute) **6 gallon 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
   **31 W. (2.7 acres) owner Leo Orahorn**

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
   **WELL located in 8TH SECTION, Sec. 9, T. 30 N. R. 31 W.**

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
   **7/10/57**

8. The depth of water table **30 feet**

9. So far as it may be available, the type, size, and depth of each well or the general specifications of any other
   works for the withdrawal of groundwater
   **50 ft. deep - 6 in. casing - 3 1/2 HP. pump**

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

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

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

Signature of Owner

Date December 4, 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 Appropiator.
DRILLER'S LOG

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

<table>
<thead>
<tr>
<th>Top of Ground</th>
<th>(Elev. above sea level)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0' 2'</td>
<td>Field</td>
</tr>
<tr>
<td>2 4 5'</td>
<td>Cobble, Gravel</td>
</tr>
<tr>
<td>15 20'</td>
<td>Gravel, Cobble Clay</td>
</tr>
<tr>
<td>28 42'</td>
<td>Clay, Rock</td>
</tr>
<tr>
<td>42 45'</td>
<td>Water Level</td>
</tr>
<tr>
<td>45'</td>
<td>Bottom of well</td>
</tr>
</tbody>
</table>

---

**STATE OF MONTANA**

**NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL**

Developed after January 1, 1962

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

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

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

**Owner**

Miss Pederson

**Address**

Tillymont

**Date well started**

8-14-22

**Date well completed**

8-16-22

**Type of well**

Drilled

**Equipment used**

Chern Drill

**Water Use**

Domestic

**Use**

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

**ESTIMATED ANNUAL WITHDRAWAL**

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Rate and Volume of Yielding</th>
<th>Time to Yield (min)</th>
<th>Kind of Strata</th>
<th>From (Ft)</th>
<th>To (Ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 x 8 x 10</td>
<td>17 ft.</td>
<td>45</td>
<td>1/2</td>
<td>1/1</td>
<td>45</td>
</tr>
</tbody>
</table>

Static water level 15' ft.

Pumping water level 30 ft.

*Measured from ground level.

Power: Pump: 1/2 HP

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

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

Each small square represents 40 acres.

Driller's Signature: [Signature]

Driller's Address: 187 2, Lot 508

License No. 222

Show exact depth of bottom 15'
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL
Developed after January 1, 1963
(Under Chapter 237 Montana Session Laws, 1961, as amended)

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

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

Top of Ground

<table>
<thead>
<tr>
<th>Date</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>10</td>
<td>25</td>
</tr>
<tr>
<td>10</td>
<td>40</td>
<td>50</td>
</tr>
<tr>
<td>50</td>
<td>53</td>
<td></td>
</tr>
</tbody>
</table>

Owner: Leo Osborn
Address: Liddle, Dee
Date well started: 2-25-72
Date well completed: 3-1-72
Type of well: Drilled
Equipment used: Air Drilled
Water Use: Domestic [ ]
               Municipal [ ]
               Stock [ ]
               Irrigation [ ]
               Industrial [ ]
               Drainage [ ]
               Other [ ]

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL

<table>
<thead>
<tr>
<th>Size of Well (Ft.)</th>
<th>Rate and Method</th>
<th>From Year</th>
<th>To Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>59</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PERFORATIONS

<table>
<thead>
<tr>
<th>Size (Ft.)</th>
<th>From Year</th>
<th>To Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>59</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static water level: 30 ft.
Pumping water level: 35 ft.
Rate: 150 gallons per minute measured: 5 minutes after pumping began.
*Measured from ground level.

Well developed by: Pumps

Power: 10 HP

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

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

Driller's Signature: Leo B. Osborn Drilling

Driller's Address: Liddle, Dee

County: Lincoln

Show exact depth of bottom: 51,432
**Notice of Completion of Groundwater Appropriation by Means of Well**

**DEVELOPED AFTER JANUARY 1, 1962**

(Under Chapter 237, Montana Session Laws, 1961)

---

**Owner:** LEO DROSGER  
**Address:** R-4, Box 149

**Driller:** DICK PARKER  
**Address:** L. I. Y. MONT.

---

**Date of Notice of appropriation of groundwater:** SEPT 18, 1969  
**Date well started:** SEPT 16, 1969  
**Date completed:** SEPT 28, 1969

---

**Type of well:** DUG  
**Equipment used:** BACK HOE  
(Dig, Driven, bored or drilled) (Churn drill, rotary or other)

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

---

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

---

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of casing</th>
<th>From</th>
<th>To</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>0</td>
<td>18</td>
<td></td>
</tr>
</tbody>
</table>

**Static Water Level for non-flowing well:** 18 feet.

**Shut-in Pressure for flowing well:**

**Pumping Water Level:** 16 feet at 18 gal. per minute.

**Discharge in gal. per min. of flowing well:** 18 gal.

**Length of Test:** 10 minutes

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

---

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

---

**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, tissue copy to be retained by driller.

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

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner: L.E.D. ORSBORN Address: RH-3015 A. A. MONT

Driller: DICK PARKER Address: L. H. 660 MONT

Date of Notice of appropriation of groundwater: D.S.7-1967

Date well started: OCT 9, 1967. Date completed: OCT 11, 1967.

Type of well: Dug. Equipment used: BACK-HOE (Dug, Driven, bored or drilled) (Churn drill, rotary or other)

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

- Industrial [ ] Drainage [ ] Other [ ]

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

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Site and Weight of Hitting</th>
<th>From</th>
<th>To</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>0</td>
<td>20</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well

Shut-in Pressure for flowing well

Pumping Water Level

Discharge in gal. per min. of flowing well

How Tested: BUCKET

Length of Test: 10 MINUTES

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

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

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, tissue copy to be retained by driller.

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

Driller's License Number

Driller's Signature
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

DECLARATION

I, Schradeal, Carl H.,

of Box 276, Route 1, Libby

County of Lincoln, 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 use & lawn irrigation.

3. Date or approximate date of earliest beneficial use and how continuous the use has been: Dec. 1950.

4. The amount of groundwater claimed (in miner’s inches or gallons per minute): 50 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: 66 acres. Lawn, garden & household.

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: December 12-13-24, 1950.

8. The depth of water table: 19 feet.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: Drilled & cased 64 ft. 32 ft. deep.

10. The estimated amount of groundwater withdrawn each year: 300,000 gal.

11. The log of formations encountered in the drilling of each well if available: gravel to 23 ft., hard pan to 33 ft., weak stream of water 28 ft.

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record: This is a strong well, but has a heavy concentration of soluble iron.

Signature of Owner: ________________________________

Date: July 1, 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; Triplicate to the Montana Bureau of Mines and Geology; Quadruplicate to the State Engineer; Duplication to the Montana Bureau of Mines and Geology.
Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1963

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

STATE WATER CONSERVATION BOARD

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

Owner... David L. Weirich

Address... 752 15th Ave., Libby, Montana

Driller... William H. Lake

Address... Libby, Montana

Date of Notice of appropriation of groundwater... February 23, 1969

Date well started... Date completed... March 12, 1969

Type of well... Drilled (Dug, driven, bored or drilled) (Charn drill, rotary or other)

Water use... Domestic 0  Municipal 0  Stock 0  Irrigation 0

Industrial 0  Drainage 0  Other 0

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

<table>
<thead>
<tr>
<th>Site of</th>
<th>Weight of</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drilled</td>
<td>Casing</td>
<td>(Foot)</td>
<td>(Foot)</td>
</tr>
<tr>
<td>6&quot; L. De</td>
<td>6 1/8&quot; O.D.</td>
<td>67</td>
<td>17;00 lbs. per foot</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well... 62 feet

Shut-in Pressure for Flowing Well...

Pumping Water Level... 65 feet at... 8 gal. per minute.

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

How Tested... PUMP

Length of Test... 6 HOURS

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

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

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

Driller's License Number... 152

Driller's Signature... William H. Lake

Driller’s Signature... 1-64

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

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

(Date: January 27, 1964)

1. DON & LOIS BILL
(Name of Appropriator)
of:
Route 1 Box 308
(Address)
Lorain
(Town)

County of LINCOLN
(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: FOR HOUSEHOLD USE, LAWN, GARDEN AND TREE WATERING, ETC.

3. Date or approximate date of earliest beneficial use: 1950 CONTINUOUS SINCE...

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 2020 GALLONS PER HOUR FOR LOTS 

5. If used for irrigation, give the average and description of the lands to which water has been applied and name(s) 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: 1950 EXACT DATE UNKNOWN

8. The depth of water table: UNKNOWN

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: DEPT UNKNOWN

10. The estimated amount of groundwater withdrawn each year: APPROX. 20 MILLION

11. The log of formations encountered in the drilling of each well if available: PARTY WHO DRILLED WELL DECEASED AND GAVE NO INFORMATION ON THE FORMATION 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:

Signature of Owner: DON BILL
Date: DECEMBER 30, 1963

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

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

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

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

STATE ENGINEER

1. Bert L. Mapier of Rte. 1, Ladd
   (Name of Appropriator) (Address)
   County of Latah, 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: Private use, household and irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: August 1, 1954

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 15 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 applicable

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: First well prior to August 1, 1954

8. The depth of water table: 35 feet

9. So far as 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 4 inch casing. No fraction

10. The estimated amount of groundwater withdrawn each year: 219,000 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: Not applicable

Signature of Owner: Bert L. Mapier
Date: 5/9/63

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)

**STATE ENGINEER**

1. Harold Hatlen and Hilda E. Hatlen  
   Route 1, Box 306  
   Libby

   (Name of Appropriator)  
   (Address)  
   (Town)

   **County of Lincoln**  
   State of Montana

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2. The beneficial use on which the claim is based for household use for 7 units (five apartments, 1 shop, 1 residence).

3. Date or approximate date of earliest beneficial use and how continuous the use has been since 1950.

4. The amount of groundwater claimed (in miner's inches of gallons per minute): 16 2/3 (sixteen and two-thirds gallons per minute or pumps 1000 gal. per hour).

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.

   - **by jet pump, located on 1st 1 of Sandyburg Lane, Section 10, T.30 N., R. 31 W., M. P., M.**

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: **Oct. 15, 1950**.

8. The depth of water table: **67 feet**.

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

   - 6 inch drilled well—67 ft. deep, by jet pump.

10. The estimated amount of groundwater withdrawn each year: **300,000 gal. or more**.

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.

   Book 101 of Deeds, page 390

   **Signature of Owner:** Hilda E. Hatlen  
   **Date:** Dec. 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
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

State Engineer

K. Harold Hatlen and Hilda E. Hatlen, of Route 1, Box 306, Libby
(Name of Appropriator) (Address) (Town)

County of Lincoln
State of Montana

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

1. Date of earliest beneficial use:

2. The beneficial use on which the claim is based for household use for 7 units (five apartments, one shop, one residence):
   Continuous for household use since 1950.

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

4. The amount of groundwater claimed in acre-feet at the following pumping rates:
   166.8 gpm (gallons per minute) per well or 1000 gpm per hour.

5. If used for irrigation, give the acreage and description of the land in 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 size, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater:

10. The estimated amount of groundwater withdrawn each year:

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

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

Signature of Owner

Date:

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

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

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

Filed this day of , 1963
Received A. D. 1963
\[Signature\]

S. M. \[Name\]
County Clerk

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

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

STATE ENGINEER

1. Alfred Sather
   of Rte. 1, Box 310
   Libby
   Lincoln County
   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 Irrigation

   3. Date or approximate date of earliest beneficial use and how continuous the use has been:
      4/27/56 Constant use

   4. The amount of groundwater claimed (in miner's inches or gallons per minute): 8-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:
      owned by self

   6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal:
      Deep Well Electric Pumping System

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
      4/7/56 and completed 4/27/56

   8. The depth of water table:
      17 feet

   9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater:
      Machine Drilled
      4-inch steel casing
      78-feet deep

   10. The estimated amount of groundwater withdrawn each year:
        330,000 gallons

   11. The log of formations encountered in the drilling of each well if available:
        8-feet---clay
        66-"----large rock and gravel
        8-"---hardpan
        4-"----quicksand and blue clay 4-ft. gravel

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

   Signature of Owner: Alfred Sather
   Date: 12/31/63

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 LINDA
Filed this 31st day of
December, A.D. 1922
at 12:00 M.
H. M. MRRFORD
County Clerk.
By ELLIS J. CRIBB
Deputy