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: Lawrence L. Helmer
Address: Sand Springs Mnt.

Date well started: 8-4-70 GW 1
Date completed: 8-5-70

Type of well: 

Equipment used: 

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 

Top of Ground: 

<table>
<thead>
<tr>
<th>Depth (ft.)</th>
<th>From (ft)</th>
<th>To (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>1</td>
<td>28</td>
</tr>
</tbody>
</table>

Hole 6

Static water level: 12 ft.
Pumping water level: 20 ft.

Water level: 20 ft. at 100 gallons per minute, measured 5 minutes after pumping began.

*Measured from ground level.

Well developed by pumping for 12 hours.

Power: 

Remarks: 

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

Each small square represents 40 acres.

Driller's Signature: 

Driller's Address: 

LICENSE NO: 29
Recently a copy of a groundwater appropriation form,

- GW 1, Notice of Appropriation of Groundwater
- X GW 2, Notice of Completion of Groundwater Appropriation by means of Well
- GW 3, Notice of Completion of Groundwater Appropriation without Well
- GW 4, Declaration of Vested Groundwater Rights (This form is obsolete and was limited by law to use only through 1965)

was forwarded to this office by the County Clerk and Recorder.

This form is identified by

Owner Lawrence Hellyer  Address Sand Springs, Montana

Location E 2/4 Sec 9, 17-33  Document No. 135430

This is to inform you that your GW form has been received and is complete as filed.

X This is a request for additional information if available. Please complete the enclosed copy by providing information where indicated, or as noted here and return the corrected copy to the Montana Water Resources Board in Helena.

Please indicate the location of the well by township, range, and section number, and also please provide the estimated annual withdrawal in gallons per year on the enclosed form.

Other.

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

Driller's Signature

Driller's Address

LICENS^NO.

Show exact depth of bottom
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD
NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL
Developed after January 1, 1962

Under Chapter 327 Montana Session Laws, 1961, as amended
This form to be prepared by driller, and three copies to be filed by 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: Lawrence Heilman
Address: Sandspur, Mont

Date well started: 8-4-70
Type of well: Drilled
Equipment used: Rotary

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

Describe: 

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

ESTIMATED ANNUAL WITHDRAWAL: 13,000,000

Perforations: 

<table>
<thead>
<tr>
<th>Size of Diameter</th>
<th>Ribs and Width of Caps</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>6</td>
<td>1</td>
<td>78</td>
</tr>
</tbody>
</table>

Static water level: 12 ft.
Pumping water level: 20 ft.
at 1,500 gallons per minute, measured minutes after pumping began.

Well developed by rotary for 12 hours.
Power: Electric Pump: 1/2 HP.
Remarks: Cementing, Backing, Shuttering, Packers.

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.
Each small square represents 40 acres.

Driller's Signature: Leonard Heilman
Driller's Address: Sandspur, Mont

Show exact depth of bottom

4-7327
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODES
OFFICE OF STATE ENGINEER

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

1. (Name of Appropriator) (Address) (Town)
   
   County: 
   State of: 
   Have appropriated groundwater according to the Montana law 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 used (in cubic feet or gallons per month):

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, the location of each well or other means of withdrawal:

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

8. The depth of water table:

9. So far as it may be available, the type, size and depth of each well or other features 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.
Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Olter Chapter 237, Montana Session Laws, 1961)

Owner: John Witt
Address: Sandpoint
Owner's Signature: 

Driller: Martin A. Jenkins
Address: 
Driller's Signature: 

Date of Notice of appropriation of groundwater: 

Date well started: 
Date completed: J une 7, 1967

Type of well: Drilled
Equipment used: 

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>Side of Drilled Hole</th>
<th>Size and Weight of Cutting Orifice</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6' 9½'</td>
<td>1</td>
<td>208</td>
<td>301</td>
<td>145</td>
<td>208</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well: 130 feet
Shut-in Pressure for Flowing Well: 
Pumping Water Level: 168 feet
Discharge in gal. per min. of flowing well: 

How Tested: Pump
Length of Test: 

Remarks: (Gravel packing, cementing, etc.)

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: 29
Driller's Signature: M A Jenkins

File No. 

Countv: 

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Approved blank form—State Publishing Co., Helena, Montana—45642
# Declaration of Vested Groundwater Right

**State of Montana**

**Administrator of Groundwater Code**

**Office of State Engineer**

(Under Chapter 237, Montana Session Laws, 1961)

## Bill Broughton

(Name of Appropriate)

(Address)

Town

County of

State of

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

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

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

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

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

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

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

8. The depth of water table:

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

10. The estimated amount of groundwater withdrawn each year:

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

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

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.
MONTANA BUREAU OF MINES AND GEOLOGY
BUTTE, MONTANA

WATER WELL LOG

Owner: Bill Maciel
Address: Sand Springs, Montana

Driller: McConnell Bros.
Address: Roundup, Montana

Date Started: November 10, 1961
Date Completed: November 30, 1961

Location: Sec. 33, T. 17N, R. 33E, Garfield County

<table>
<thead>
<tr>
<th>Type of Well</th>
<th>Drilled (Dug, driven, bored, or drilled)</th>
<th>Equipment Used</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rotary (Chimney drill, rotary, other)</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Casing:</th>
<th>0 ft. to 200 ft.</th>
<th>Type: Iron</th>
<th>Size: 6 inch</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Perforated or Screened:</th>
<th>Ft. 120 to Ft. 140</th>
<th>Type of Screen or Perforations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Static Water level, for non-flowing well:</th>
<th>100 feet from top</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shut-in pressure, for flowing well:</td>
<td>lb/sq. in. on:</td>
</tr>
<tr>
<td>Date</td>
<td></td>
</tr>
</tbody>
</table>

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

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

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

<table>
<thead>
<tr>
<th>Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(over)
<table>
<thead>
<tr>
<th>Depth, Feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From 0-10</td>
<td>soil</td>
</tr>
<tr>
<td>10-60</td>
<td>sand water, about 1 quart per minute</td>
</tr>
<tr>
<td>60-105</td>
<td>shale</td>
</tr>
<tr>
<td>105-110</td>
<td>water, about 3 gal per minute</td>
</tr>
<tr>
<td>110-170</td>
<td>Shale</td>
</tr>
<tr>
<td>170-185</td>
<td>water sand, 6 gal per min</td>
</tr>
<tr>
<td>185-200</td>
<td>Shale</td>
</tr>
</tbody>
</table>
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner: Frank W. Karthago
Address: Great Falls, Montana

Driller: Carl Jerred
Address: Missoula, Montana

Date of Notice of Appropriation of Groundwater: Sept. 26-63
Date Completed: Oct. 30-63

Type of well: (borehole, drilled, or other)
Equipment Used: (drill, driller, rotary or other)

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

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

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 1/2</td>
<td>4 1/4, 16</td>
<td>0</td>
<td>490</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 38.5 feet.
Shut-in Pressure for Flowing Well: 380 feet.
Pumping Water Level: 3 1/2 feet at 30 gal. per minute.
Discharge in gal. per min. of flowing well: 450 gal.
How Tested: BAILEY Length of Test: 3.5 hrs.

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.

Owner and Appropriate:

Driller's License Number: 35
Driller's Signature: Carl Jerred

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

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

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

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater Approximately 1910
(by Chris Nelson, former owner).

Owner: Clement A. Larson
Address: Sand Springs, Montana
(Now Hamilton, Montana).

Contractor (if any): None

Address of Contractor: None

Data Started: Date Completed: None

Describe means of obtaining groundwater without a well "as by sub-surface and other natural processes" Include depth to water when applicable. The spring is located on Lodge Pole Creek and has a natural flow. It has been flowing since 1910.

Signature of Owner: Clement A. Larson
Address: Hamilton, Montana
Date: December 30, 1963

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

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

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

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

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

STATE ENGINEER

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

1. CLINTON A. JARSON
   (Name of Appropriator) of
   Sand, Montana (Address)

   County of Garfield State of Montana (now of Sanders, 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
   Brodcenter purposes

3. Date or approximate date of earliest beneficial use, and how continuous the use has been: October, 1960 and continuously since that date

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 1 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
   Used for livestock watering only

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

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

8. The depth of water table: 80 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 water well, 4-inch casing, 10-inch pipe, and approximately 128 feet deep

10. The estimated amount of groundwater withdrawn each year: 75,000 gallons per year

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

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

Signature of Owner: ____________________________
Date: December 30, 1963

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

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

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

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

Date of Appropriation of Groundwater: Approximately 1910
(by Chris Nelson, former owner)
Owner: Clement A. Lawton, Address: Sand Springs, Montana
(now Hamilton, Montana).
Contractor (if any): none.
Address of Contractor: none.
Date Started: Date Completed:

Describe means of obtaining groundwater without a well "as by
sub-irrigation and other natural process". Include depth to
water when applicable. This spring is located on Lodge Pole
Creek and has a natural flow. It has been flowing since 1910.

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.
Spring water flows down Lodge Pole Creek at the rate
of 4 gallons per minute continuously.

Signature of Owner: ____________________________
Hamilton, Montana.
Date: December 30, 1963

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, "not applicable," 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.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

I. Clement J. Larson
   (Name of Appropriator)
   of Sand Springs, Montgomery
   (Address)

County of Garfield
   State of Montana (not of Hamilton, Montana),
   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1963, as follows:

2. The beneficial use on which the claim is based: water for stockwater purposes.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been since that date have pumped it several times.

4. The amount of groundwater claimed (in miner’s inches or gallons per minute): 2 gallons per minute.

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:

   used for stockwater purposes only.

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

   windmill and electric motor.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: August 1955.

8. The depth of water table: approximately 50 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 water well, 4 inch casing, 1/2 inch pipe, depth of 125 feet.

10. The estimated amount of groundwater withdrawn each year: approximately 75,000 gallons per year.

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

   Not available.

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

   Not available.

Signature of Owner:

Date: December 30, 1963

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Approprietor.
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

Gladys L. Kreider
of
Sand Springs,

County of Garfield 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
July 20, 1961

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
Commenced July 14, 1961, completed July 20, 1961

8. The depth of water table
Well depth 200 feet, water rises to within 60 feet of top

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 depth 200 feet; 5 inch, 20 gauge to 200 feet; factory slots 1/8 inch, 180 to 195 feet.

10. The estimated amount of groundwater withdrawn each year
270,000 gallons

11. The log of formations encountered in the drilling of each well if available
Drilled by McConnell Bros.
5 inches: 110 feet shale; 150 feet sand; 180 feet shale; 195 feet sand and water; 200 feet shale.

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 10-9-63

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 Appropriate.
STATE OF MONTANA
County of Garfield

Filed in the office of the County Clerk and Recorder of Garfield County, State of Montana, this 10th day of October, A.D. 1963, in the office of the County Clerk and Recorder.

By: 

Deputy

Fee Paid $2.00
<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>Elgin Leonard</td>
<td>495</td>
<td>129514</td>
<td>T/tol R 34E</td>
</tr>
<tr>
<td>2</td>
<td>Albert J. Samuel &amp; Jeannet</td>
<td>497</td>
<td>125320</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Blain Kenneth</td>
<td>492</td>
<td>129515</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Blain Kenneth</td>
<td>492</td>
<td>129515</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Blain Kenneth</td>
<td>492</td>
<td>129515</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Blain Kenneth</td>
<td>492</td>
<td>129515</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Blain Kenneth</td>
<td>492</td>
<td>129515</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Blain Kenneth</td>
<td>492</td>
<td>129515</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Blain Kenneth</td>
<td>492</td>
<td>129515</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Blain Kenneth</td>
<td>492</td>
<td>129515</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Blain Kenneth</td>
<td>492</td>
<td>129515</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Blain Kenneth</td>
<td>492</td>
<td>129515</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Blain Kenneth</td>
<td>492</td>
<td>129515</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Blain Kenneth</td>
<td>492</td>
<td>129515</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Blain Kenneth</td>
<td>492</td>
<td>129515</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Blain Kenneth</td>
<td>492</td>
<td>129515</td>
<td>In sec 15 above</td>
</tr>
<tr>
<td>21</td>
<td>Blain Kenneth</td>
<td>492</td>
<td>129515</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Blain Kenneth</td>
<td>492</td>
<td>129515</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Blain Kenneth</td>
<td>492</td>
<td>129515</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>Blain Kenneth</td>
<td>492</td>
<td>129515</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>State of Montana, Dept St &amp; Land</td>
<td>492</td>
<td>129531</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>State of Montana, Dept St &amp; Land</td>
<td>492</td>
<td>129531</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>Elgin Kenneth</td>
<td>492</td>
<td>129513</td>
<td>In sec 15 above</td>
</tr>
<tr>
<td>34</td>
<td>Elgin Kenneth</td>
<td>492</td>
<td>129513</td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>Elgin Kenneth</td>
<td>492</td>
<td>129513</td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>Elgin Leonard</td>
<td>492</td>
<td>129513</td>
<td></td>
</tr>
<tr>
<td>37</td>
<td>Elgin Leonard</td>
<td>492</td>
<td>129513</td>
<td></td>
</tr>
<tr>
<td>38</td>
<td>Elgin Leonard</td>
<td>492</td>
<td>129513</td>
<td></td>
</tr>
<tr>
<td>39</td>
<td>Elgin Leonard</td>
<td>492</td>
<td>129513</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>Elgin Leonard</td>
<td>492</td>
<td>129513</td>
<td></td>
</tr>
</tbody>
</table>
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

JAMES A. WATERTON
(Name of Appropriator)

1617-34
(Address)

Montpelier
(Town)

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:

Stock Water

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).

4 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.

Acreage

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

Pump with gas motor

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

1930

8. The depth of water table.

Not known

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

100 feet, 2 inch casing, steel pipe

10. The estimated amount of groundwater withdrawn each year.

Amount casing from grant

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 necessary in carrying out the policy of this act, including reference to book and page of any county record.

Not available

Signature of Owner

Date: Dec. 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

(Signed Copy)

Date: Jan 9, 1964

Applicant: James A. Marshall

Address: Land’s End, Town: York

County: Lewis

State of Montana

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

1. Name of Appropriator

2. The beneficial use on which the claim is based

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

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

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

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

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

8. The date of water table

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

10. The estimated amount of groundwater withdrawn each year

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

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

Signature of Owner

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

Filed in the
Records of

this

A. D. 19

Maurice Moench
County Clerk

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

Owner: Sandsprings
Address: Sand Springs

Driller: Moe Drane
Address: Jordan, Mont.

Date of Notice of Appropriation of Groundwater: 7-28-63
Date well started: 7-28-63
Date Completed: 8-4-63

Type of well: drilled
Equipment Used: rotary

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

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

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Collar</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6θ,6θ</td>
<td>4θθ</td>
<td>1</td>
<td>130</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 60 feet
Shut-in Pressure for Flowing Well: none
Pumping Water Level: 126 feet at 5 gpm per minute
Discharge in gpm per min. of flowing well: none
How Tested: pump
Length of Test: 36 hrs

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

---

Driller's License Number
Moe Drane
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 WITHOUT WELL

For Administrator's Use

File 194915

Owner: Kenneth Bliss
Address: Sand Springs, MT

Contractor (if any): (none)
Address of Contractor:

Date Started: Unk
Date Completed: Unk

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

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

3. Depth of water table: Unk

4. Use of the water: stock, etc.

5. Amount of groundwater claimed (in miner's inches or gallons per minute): 200 gals. per min.

6. If used for irrigation, give number of acres and description of land (not so used):

7. Estimate amount of water used each year: 5,000,000 gals.

8. Months of year spring flows: year round

Signature of Owner: Kenneth Bliss
Date: June 29, 1973

INDICATE POINT OF APPROPRIATION AND PLACE OF USE, IF POSSIBLE.
Elevation of spring, if known or estimated:

N.1/4, NE.1/4 Sec. 8
T. 17 N R. 34 E
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

1. Kenneth Bliss, of Sand Springs, 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. April 1, 1949

4. The amount of groundwater claimed (in miner's inches or gallons per minute). 8000 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.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Spring 1949

8. The depth of water table. From top of ground 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 for the withdrawal of groundwater. Not applicable

10. The estimated amount of groundwater withdrawn each year. Just known

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

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. No record of

Signature of Owner: Kenneth Bliss
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.
Declaration of Vested Groundwater Rights

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

James A. Theater, 307 South Spring St.

County of: Huff
State of: Montana

Declaration of Vested Groundwater Rights

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: House, Car, Luck, Water.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been:
   1930 - Continuous use until 1953 - Not constant.

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 withdrawal:
   Pump, Windmill, Gas.

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

8. The depth of water table: Not Known.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater:
   Approx. 8 foot- long, 10 feet.

10. The estimated amount of groundwater withdrawn each year: Not Known.

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

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

Signature of Owner: James A. Theater
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.
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

Kenneth Bliss of Sand Springs, Montana

1. Kenneth Bliss of Sand Springs, 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 and irrigation of shelter belt trees.

3. Date or approximate date of earliest beneficial use: July 1, 1943.

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

8. The depth of water table: 71 ft 60 ft 28 ft 3 206 ft 490 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: 664,000

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: Kenneth Bliss

Date: June 13, 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.
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**: Kennedy Bl. 32

**Address**: Seed Springs

**Date well started**: unk.

**Date well completed**: unk.

**Type of well**: sec. 20-c dov; sec. 15 - drilled

**Equipment used**: #20 - shovel 3 1/2 - 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). Sec. 20, T. 17N, R. 34W, Sec. 15, T. 17N, R. 34W

**Estimated Annual Withdrawal**: 5,000,000 gals.

<table>
<thead>
<tr>
<th>Site of Drilled Hole</th>
<th>Size of Casing (Feet)</th>
<th>Depth to Water (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>#20</td>
<td>10'</td>
<td>0</td>
</tr>
<tr>
<td>#15</td>
<td>41'</td>
<td>0</td>
</tr>
</tbody>
</table>

**Static water level**: 180 ft.

**Pumping water level**: 120 ft.

**Flow rate**: 200 gpm

**Static water level**: measured 0 ft. after pumping began.

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

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

**Driller's Signature**: Carl Jarrel (now deceased)

**Driller's Address**:

**License No.**: 5563
Notice of Completion of Groundwater Appropriation by Means of Well Driller

(Under Chapter 237, Montana Session Laws, 1961)

Kenneth Ellis
Owner

Earl Drane
Driller

Address: Sand Springs, Montana
Address: Jordan, Montana

Date of Notice of Appropriation of Groundwater: 7-30-63

Date well started: 8-6-63
Date completed: 8-16-63

Type of well: Drilled
Equipment used: Rotary

Depth of well: 60 ft

Well completion: 25 ft gravel, 35 ft shale, 10 ft sand and shale

Groundwater used: Domestic

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered or character of water-bearing strata and height to which water rises. Use 1/4 inch squares for 10 acre units. Each small square represents 10 acres.

<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Diameter (in)</th>
<th>Water Level</th>
<th>Static Water Level</th>
<th>Shut-in Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>4</td>
<td>92</td>
<td>1</td>
<td>70</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well: 70 feet
Shut-in Pressure for flowing well: None

Lifting Water Level: 189 feet
Discharge in gal per min: Off flowing well

No. of Hours of Flow Test: 26

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

Driller's License Number: 29

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.
Dear Sir:
On the Notice of Completion of Groundwater Appropriation by Means of Well, Made by Kenneth Bliss filed on Aug. 22, 1963, the description should be
now Sec 20 T. 17 R. 3b instead of Range 20.
Will you please change your records. Thank you.

CHARLES E. FANGBURN
Clerk and Recorder, Garfield County
JORDAN, MONTANA
59037

RECEIVED
DEC 13 1968
STATE ENGINEER
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 227, Montana Session Laws, 1961, as amended)

This form to be prepared by contractor (if any), otherwise by the owner.
Two copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.
Please verify all information. If not applicable, so state, otherwise the form may be returned.

Owner: Kenneth Bliss
Address: Sand Springs, MT
Contractor (if any): None
Address of Contractor: 
Date Started: unk
Date Completed: unk

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

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

3. Depth of water table: Unknown

4. Use of the water: Livestock, etc.

5. Amount of groundwater claimed (in miner's inches or gallons per minute): 200 gals. per min.

6. If used for irrigation, give number of acres and description of land (not to be used): 

7. Estimate amount of water used each year: 5,000,000 gals.

8. Months of year spring flows: Year Round

Signature of Owner: Kenneth Bliss
Date: June 28, 1973

INDICATE POINT OF APPROPRIATION AND PLACE OF USE, IF POSSIBLE.
Elevation of spring, if known or estimated: 

NE 1/4 NE 1/4 Sec 21
T 17 N R 34 E
**NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL**

(Under Chapter 233 Montana Session Laws, 1961, as amended)

This form is 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 form may not be returned.

---

**Owner:**

**Address:**

**Date well started completed:**

**Type of well:**

**Equipment used:**

**Water Use:**

*Describe*

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

**ESTIMATED ANNUAL WITHDRAWAL:**

---

**PERFORATIONS**

<table>
<thead>
<tr>
<th>kind</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>13&quot;</td>
<td>24&quot;</td>
</tr>
</tbody>
</table>

---

**Top of Ground**

---

**INDEMNITY OF MONTANA**

---

**LICENSE NO:**

---

**Driller's Signature:**

---

**Driller's Address:**
STATE OF MONTANA
County of Garfield
Filed in the office of the County Clerk and
Registrar of Garfield County, State of Montana
this 21st day of February, 1913.

A. J. 12

Charles E. Bigelow

County Clerk and Registrar

J. J. Chaffee

Lee Ford - The Free

INDEXED

Fila.
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. Said copy to be retained by driller.

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

Owner
Led Schmitter, Commissioner

Address
Helena, Montana

Date well started
Sept 23, 1966

Completed
Sept 23, 1966

Type of well Drilled

Equipment used Rotary

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

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL 5,256,000 gal.

Static water level 9 ft.

Pumping water level 18 ft.

at 10 gallons per minute, measured 10 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.

Driller's Signature: Charl JERRALL (NNV deceased)

Driller's Address

LICENSE NO.

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

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

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

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

Owner: Kenneth Bliss
Address: Sand Springs, MT

Contractor (if any): (none)
Address of Contractor: 

Date Started: unk
Date Completed: unk

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

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

3. Depth of water table

4. Use of the water

5. Amount of groundwater claimed (in miner's inches or gallons per minute) 200 gals. per min.

6. If used for irrigation, give number of acres and description of land (not so used)

7. Estimate amount of water used each year 5,000,000 gals.

8. Months of year spring flows Year round

Signature of Owner: Kenneth Bliss
Date June 28, 1973

INDICATE POINT OF APPROPRIATION AND PLACE OF USE, IF POSSIBLE.
Elevation of spring, if known or estimated

NW 3/4 SW 1/4 Sec. 23
T 17 N R 34 E

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Emma R. Fitzgerald, of 

County of 

State of 

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

1. Name of Appropriator: Emma R. Fitzgerald
   Address: Jordan
   Town: Jordan

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: 1924

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

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: None

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1924

8. The depth of water table: 60

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: 150 ft deep, 6" casing

10. The estimated amount of groundwater withdrawn each year: 120,600

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

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

Signature of Owner: Emma R. Fitzgerald
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 Appropriate.

23430
Form No. 18
8-60

County: Garfield

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

STATE ENGINEER

Water Well Log

Owner: Emma Fitzgerald
Address: Jordan, Montana

Driller: Carl Jarrel
Address: Miles City, Montana

Date Started: Sept 10/1961
Date Completed: 9/22/61

Location: Sec. 32 T. 17 R. 34 1/4 sec. NE

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Drill d</th>
<th>Equipment used</th>
<th>Rotary</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>(Aug., driven, or drilled)</td>
<td>(Churn, drill, rotary, other)</td>
</tr>
<tr>
<td>use:</td>
<td>Domestic</td>
<td>Municipal</td>
<td>Stock</td>
</tr>
<tr>
<td></td>
<td>Industrial</td>
<td>Drainage</td>
<td>Other</td>
</tr>
</tbody>
</table>

Casing: 0 ft. to 257 ft. Type: iron
Size: 1 inch

Casing: __ ft. to __ ft. Type: __
Size: __

Casing: __ ft. to __ ft. Type: __
Size: __

Perforated or screened: Ft. 213 to ft. 257. Ft. ___ to ft. 

Type of screen or perforations: __ slots

Static water level, for non-flowing well: __ feet.
Shut-in pressure, for flowing wells: __ lb./sq. in. on: __ (date)

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

How tested: bailer

Length of test: 2 hours

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

Bails to 240 feet at nine gallons per minute

(over)
<table>
<thead>
<tr>
<th>Depth</th>
<th>From</th>
<th>To</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>20</td>
<td></td>
<td>Top soil</td>
</tr>
<tr>
<td>20</td>
<td>200</td>
<td></td>
<td>shale</td>
</tr>
<tr>
<td>200</td>
<td>203</td>
<td></td>
<td>Rock</td>
</tr>
<tr>
<td>203</td>
<td>250</td>
<td></td>
<td>Sand</td>
</tr>
<tr>
<td>250</td>
<td>257</td>
<td></td>
<td>Shale</td>
</tr>
</tbody>
</table>
## DRILLER'S LOG

**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

**Kenneth Bliss**

Address: Sand Springs, MT

<table>
<thead>
<tr>
<th>Date well started</th>
<th>Unknown</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date well completed</td>
<td>Unknown</td>
</tr>
</tbody>
</table>

| Top of Ground: (Give above sea level) |

<table>
<thead>
<tr>
<th>Depth From Deck</th>
<th>Depth To Deck</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>411</td>
<td>0</td>
<td>Unknown</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ESTIMATED ANNUAL WITHDRAWAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,000,000 gal.</td>
</tr>
</tbody>
</table>

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

**Driller's Signature**: Unknown

**Driller's Address**: Unknown

---

**RECEIVED**

**JUL 5 1973**

**County**: Montana

**LE-342**

**LICENSE NO**: 55412