STATE OF MONTANA, \nCounty of Yellowstone, \n
This instrument was filed in my office
this 27 day of August, 1963
at 5o 20 o'clock M.,

Edison S. Redding,
County Clerk & Recorder

By /s/ Deputy
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Cooper Ranch, Inc., of Blue Creek Rd., Billings, Montana,
   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

   - The beneficial use on which the claim is based: Stock & Water

   - Date or approximate date of earliest beneficial use: 1937

   - The amount of groundwater claimed: Not known

   - 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

   - The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: Gas & Pump

   - The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1937

   - The depth of water table: 20 ft.

   - 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: 8½ ft. x 25 ft. Deep

   - The estimated amount of groundwater withdrawn each year: 30,000 gal.

   - The log of formations encountered in the drilling of each well if available: Dug by Hand

   - 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 School of Mines and quadruplicate for the Appropriator.
**Notice of Completion of Groundwater Appropriation Without Well**

(Under Chapter 237 Montana Session Laws, 1961)

<table>
<thead>
<tr>
<th>Date of Appropriation of Groundwater</th>
<th>July 1911, 1963</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner</td>
<td>O. A. Hartley</td>
</tr>
<tr>
<td>Address</td>
<td>P.O. Box 37, Bela</td>
</tr>
<tr>
<td>Contractor (if any)</td>
<td>No Contractor</td>
</tr>
<tr>
<td>Address of Contractor</td>
<td>No Contractor</td>
</tr>
<tr>
<td>Date Started</td>
<td>July 1911</td>
</tr>
<tr>
<td>Date Completed</td>
<td>July 1911</td>
</tr>
<tr>
<td>Describe means of obtaining groundwater without a well “as by sub-irrigation and other natural processes”. Include depth to water when applicable. A hole was dug near a small spring 7 feet deep. A stream of water was found.</td>
<td></td>
</tr>
<tr>
<td>Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use. Estimate: 300 gal per hour. A pump was used. Pumped 5 gal per minute. Enrage spring, summer, fall, garden, orchard, lawn, household stock, 12 months.</td>
<td></td>
</tr>
<tr>
<td>Indicate point of appropriation and place of use, if possible.</td>
<td>S.E. 1/4 SE 33, T. 2 S. R. 26 E.</td>
</tr>
</tbody>
</table>

Signature of Owner: O. A. Hartley

Date  Dec 20, 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
County of Yellowstone

This instrument was filed in the office
this day of , 1963

Edward S. Redmond,
County Clerk & Recorder

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

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962
(Under Chapter 237 Montana Session Laws, 1961, as amended)

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

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

Owner: Walter Hahn
Address: Blue Creek Ave

Date well started: Feb 28, 1973
Completed: 1925

Type of well: dug
Equipment used: Tripped Type Leader

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

Describe use: If used for irrigation, industrial, drainage or other. Explain.

Estimated Annual Withdrawal:

<table>
<thead>
<tr>
<th>Source of Water</th>
<th>From</th>
<th>To</th>
<th>From</th>
<th>To</th>
<th>0</th>
<th>8 1/2</th>
<th>Stock</th>
<th>Perforation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static water level: 8 1/2 ft.
Pumping water level: 5 ft.

*Measured from ground level.
Well developed by myself.
Power Source: Pump, Bachel HP
Remarks: (Gravel packing, cementing, packers, type of shutoff valve)

Driller's Signature

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE. EACH SMALL SQUARE REPRESENTS 40 ACRES.
STATE OF MONTANA, ss.
County of Yellowstone
This instrument was filed in my office
this JUN 2 8 1973
at 0:06 o'clock AM
MERRELL M. KLUNDE
County Clerk & Recorder
By
Deputy
<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>Daines, Alex</td>
<td>1957 Well Log</td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>Daines, Alex</td>
<td>1957 Well Log</td>
<td></td>
<td></td>
</tr>
<tr>
<td>38</td>
<td>Daines, Alex</td>
<td>1957 Well Log</td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>Daines, Alex</td>
<td>1957 Well Log</td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>Fritzler, Albert M.</td>
<td>GW14</td>
<td>710809</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Sweeter, Warren</td>
<td>GW2</td>
<td>938487</td>
<td>previously milled</td>
</tr>
</tbody>
</table>
WATER WELL LOG

Owner: Aly Deine  Address: Butte, Montana
Driller: Shute (Shute)  Address: 
Date Started: 1924 East  Date Completed: 
Location: Sec. 21 T. 22 S. 7E 1/4 sec. 64

Type of well: 
Equipment used: Shovel

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

Casing: Rod ft. to 10 ft.  Type: Rod  Size: average 

Casing: ft. to ft.  Type: Size: 

Casing: ft. to ft.  Type: Size: 

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

Type of screen or perforations: 

Static Water level, for non-flowing well: 

Shut-in pressure, for flowing well: lb./sq. in. on: (date) 
Pumping water level: feet at gal. per min. 

How tested: Pumping 
Length of test: 3 1/2 hrs. 

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

Water meter - hand shut off
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From 1</td>
<td>To 4</td>
</tr>
<tr>
<td>From 4</td>
<td>To 4.2</td>
</tr>
</tbody>
</table>

## WATER WELL LOG

### Owner
- Aly Minos
- Address: Bayou Rd.

### Driller
- Name: Bat
- Address: Same

### Date Started
- 1948

### Date Completed
- 10/15/48

### Location
- Sec: 19
- T: 25
- R: 27E
- ¾ sec: 5 W

### Type of Well
- Drilled

### Equipment Used
- Backhoe digger

### Water Use
- Stock [X]
- Irrigation [ ]

### Casing
- Size: 8"
- Type: Galvanized

### Perforated or Screened
- From: 10' to: 100'

### Static Water Level
- Non-flowing well

### Shut-In Pressure
- Flowing well

### Pumping Water Level
- 5' feet at 40 gal. per min

### How Tested
- Pumping

### Length of Test
- 3 to 4 hrs

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

- Cement
- Motor-shut-off
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>From</th>
<th>To</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td></td>
<td></td>
<td>clay soil</td>
</tr>
<tr>
<td>8 10</td>
<td></td>
<td></td>
<td>sand</td>
</tr>
<tr>
<td>10 14</td>
<td></td>
<td></td>
<td>gravel</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### WATER WELL LOG

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Equipment used</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic</td>
<td>(Driv., borer, or drilled)</td>
</tr>
<tr>
<td></td>
<td>(Chim dril., mast, other)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Casing:</th>
<th>Type:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ft. to 25 ft.</td>
<td>(Coat, Size)</td>
</tr>
<tr>
<td>Casing:</td>
<td>Type:</td>
</tr>
<tr>
<td>ft. to</td>
<td>Size:</td>
</tr>
</tbody>
</table>

| Perforated or Screened: Ft. to Ft. | Type of screen or perforations |

<table>
<thead>
<tr>
<th>Static Water level, for non-flowing well:</th>
<th>feet.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shut-in pressure, for flowing well:</td>
<td>lb./sq. in. on: (date)</td>
</tr>
<tr>
<td>Pumping water level: S feet at 30 gal. per min.</td>
<td></td>
</tr>
<tr>
<td>How tested:</td>
<td>Proving</td>
</tr>
<tr>
<td>Length of test:</td>
<td>3.6 hr.</td>
</tr>
</tbody>
</table>

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

- Gas motor

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>Limestone</td>
</tr>
<tr>
<td>18 - 21</td>
<td>Sand</td>
</tr>
<tr>
<td>21 - 25</td>
<td>Limestone</td>
</tr>
</tbody>
</table>
WATER WELL LOG

<table>
<thead>
<tr>
<th>Owner</th>
<th>Address</th>
<th>Driller</th>
<th>Address</th>
<th>Date Started</th>
<th>Date Completed</th>
</tr>
</thead>
</table>

| Location:  | Sec. 28, T. 25, R. 27 E, 1/4 sec. 5-44 |

<table>
<thead>
<tr>
<th>Type of well:</th>
<th>Dug &amp; Drilled</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Equipment Used:</th>
<th>Screened Pipe + 1/2 in.直径</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Water use:</th>
<th>Domestic [X]</th>
<th>Municipal [ ]</th>
<th>Stock [X]</th>
<th>Irrigation [ ]</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Casing:</th>
<th>2 1/2' ft. to ft.</th>
<th>Type: 2&quot;</th>
<th>Size:</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Perforated or Screened:</th>
<th>3' to ft.</th>
<th>Ft. to Ft.</th>
</tr>
</thead>
</table>

| Type of screen or perforations: | Cased Drill in Casing |

<table>
<thead>
<tr>
<th>Static Water level:</th>
<th>ft.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Shut-in pressure:</th>
<th>lb./sq. in. on: (date)</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>How tested:</th>
<th>Pumping</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Length of test:</th>
<th>3 ft.</th>
</tr>
</thead>
</table>

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

Cemented top
Automated water shut off

*over*
<table>
<thead>
<tr>
<th>Depth, Feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>17</td>
<td>Topsoil</td>
</tr>
<tr>
<td>17 21</td>
<td>Sand</td>
</tr>
<tr>
<td>21 25</td>
<td>Gravel</td>
</tr>
</tbody>
</table>
STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

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

1. Albert H. Fritzler, of Pinyon Star Rd., Billings
   (Name of Appropriator) (Address) (Town)
   County of Yellowstone, State of Montana
   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

   2. The beneficial use on which the claim is based __________________________
      Domestic __ Irrigation __

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

   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 __________________________
       4,312,000 gpd

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

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

Signature of Owner __________________________
Date __________________________

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 School of Mines and Quadruplicate for the Appropriator.
STATE OF MONTANA,

County of Yellowstone,

This instrument was filed in my office this 7th day of July, 1999.

[Signature]

M. L. Albright

County Clerk & Recorder

By [Signature]

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

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

developed after January 1, 1962

(Under Chapter 337 Montana Session Laws, 1961, as amended)

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

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

Owner: 

Address: 

Billings, Montana

Date well started: 6-11-73

completed: 6-12-73

Type of well: 

Equipment used: 

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: 

Top of Ground

<table>
<thead>
<tr>
<th>From (Ft)</th>
<th>To (Ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1/8</td>
<td>1 1/3</td>
</tr>
</tbody>
</table>

Static water level: 13 ft.
Pumping water level: 12 ft.
Gallons per minute: 120.

Well developed for hours.
Power: pump. HP

Remarks: (Gravel packing, cementing, etc.).

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

Each small square represents 1/2 acre.

Driller's Signature:

Driller's Address:

LICENSE NO.

Show exact depth of bottom

Show exact depth of bottom

55391
STATE OF MONTANA, } ss.
County of Yellowstone } ss.
This instrument was filed in my office
this 28th day of June, 1919
at 2 1/2 o'clock P.M.

MERRILL F. KLUNDT
County Clerk & Recorder

By ________________________ Deputy
<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Northwestern Mortgage</td>
<td>GW14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Northwestern Mortgage</td>
<td>GW14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Ostermiller, Lewis</td>
<td>GW14</td>
<td>720913</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Scourby, Clara</td>
<td>GW13</td>
<td>737481</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Barnes, Ella</td>
<td>GW12</td>
<td>720216</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>Ellis, Melvin F.</td>
<td>GW12</td>
<td>703165</td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>Schaar, Lawrence &amp; Wm.</td>
<td>GW13</td>
<td>721109</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>Schaar, Lawrence &amp; Wm.</td>
<td>GW13</td>
<td>721113</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>Schaar, Lawrence &amp; Wm.</td>
<td>GW13</td>
<td>721123</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>Schaar, Lawrence &amp; Wm.</td>
<td>GW13</td>
<td>721131</td>
<td></td>
</tr>
</tbody>
</table>
STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights
(Under Chapter 21, Montana Session Laws, 1965)

1. Northwestern Mortgage Company, of Billings, Montana
   (Name of Appropriator) (Address) (Town)

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1948 Seasonal.

4. The amount of groundwater claimed (in miner's inches or gallons per minute): Five 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: Gasoline Motor Driven Pump.

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: 1948.

8. The depth of water table: 90 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: 90 Feet Steel 8-Inch Casing.

10. The estimated amount of groundwater withdrawn each year: 1,500,000.

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: None.

   Signature of Owner: Northwestern Mortgage Company
   Date: December 31, 1965.

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

Declaration of Vested Groundwater Rights
(Under Chapter 287, Montana Session Laws, 1969)

1. Northwestern Mortgage Company, of Billings, Montana
   (Name of Appropriator)
   (Address)
   (Town)

   County of Yellowstone
   State of Montana

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

   NE 34, NW Sec. 9, T. 25 R. 28 E.

   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
      Stock use

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been
      Date completed: 1959

   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 not used for irrigation

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

   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 18 feet from surface 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
      Depth of well is 60 feet with 2 inch casing

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

   Northwestern Mortgage Company
   Signature of Owner by D. E. Loek
   President
   Date: December 23, 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 School of Mines and quadruplicate for the Appropriator.

   Received DEC 30 1963
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:
Address:

Date well started:
Completed:

Type of well:
Equipment used:

Water Use:

*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.

ESTIMATED ANNUAL WITHDRAWAL:

Top of Ground

<table>
<thead>
<tr>
<th>From (Ft)</th>
<th>To (Ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PERFORATIONS

Static water level
Pumping water level
at gallons per minute, measured minutes after pumping began.

*Measured from ground level.

Well developed by for 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.

Show exact depth of bottom
STATE OF MONTANA
County of Yellowstone

This is to certify that I, the undersigned, have this day administered the oath of the Court to the above-named.

(Handwritten Signature)

[Date]

[Notary Public Stamp]
Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1963
(under Chapter 327, Montana Session Laws, 1961)

Owner: Ella Barnes
Address: ________________________________

Driller: B & H Drilling
Address: ________________________________

Date of Notice of appropriation of groundwater:
Date well started: 11/5/64
Date completed: 11/16/64

Type of well: Drilled
Equipment used: Churn Drill

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

To show on the diagram the character and thickness of the different strata in which 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: PERFORATIONS

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Length of Drilling (Feet)</th>
<th>Depth of Drilling (Feet)</th>
<th>Water Level (Feet)</th>
<th>Shut-in Pressure (Feet)</th>
<th>Pumping Water Level (Feet)</th>
<th>Water Discharge (GPM)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 inch 06 ft 17 # 14 1/2 Plate</td>
<td>14</td>
<td>20 1/2</td>
<td>Non-E</td>
<td>NONE</td>
<td>63</td>
<td>70</td>
<td>(Gravel packing, cementing, packers, type of shut-off)</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well
Shut-in Pressure for Flowing Well
Pumping Water Level
Water Discharge
Remarks: (Gravel packing, cementing, packers, type of shut-off)

### Diagram:

- Diagram showing location of well and plan of use, if possible. Each small square represents 40 acres.

### 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:

75 ft

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, same 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: __________________________

NO 27
Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 237, Montana Session Laws, 1961)

Date of Notice of Appropriation of Groundwater: June 23, 1965
Date well started: June 29, 1965
Date Completed: July 5, 1965
Type of well: Drilled
Equipment Used: Drill

Water Use: Other

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

<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Strata Met With</th>
<th>Driller's Signature</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-20</td>
<td>Sand and Yellow Clay</td>
<td></td>
</tr>
<tr>
<td>20-50</td>
<td>Black Shale</td>
<td></td>
</tr>
<tr>
<td>50-100</td>
<td>Black Shale</td>
<td></td>
</tr>
<tr>
<td>100-150</td>
<td>Black Shale</td>
<td></td>
</tr>
<tr>
<td>150-200</td>
<td>Black Shale</td>
<td></td>
</tr>
<tr>
<td>200-250</td>
<td>Black Shale</td>
<td></td>
</tr>
<tr>
<td>250-300</td>
<td>Black Shale</td>
<td></td>
</tr>
<tr>
<td>300-350</td>
<td>Black Shale</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
Length of Test
Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation)

Driller's License Number
Driller's Signature

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

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

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: May 1954

Lawrence L. Schaak and William A. Schaak
Owner
Address: 2414 Spruce, Billings, Montana

Contractor (If any): None
Address of Contractor: None

Date Started: May 1954
Date Completed: May 1954

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

The water is obtained from surface springs by sub-irrigation and other natural processes.

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.

All of the springs flow naturally the year around. A cu. foot per second is estimated to be the flow developed and used at stock water and for irrigation from each spring.

Signature of Owner: Lawrence L. Schaak

Date: December 20, 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.
Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237, Montana Session Laws, 1961)

Date of Appropriation of Groundwater: May 1954
Lawrence L. Schaal and William A. Schaal
Owner: 2414 Spruce
Billings, Montana
Owner: None
Address of Contractor: None
Date Started: May 1954
Date Completed: May 1954

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

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.

All of the springs flow naturally the year around. 1 cu. ft. per second is estimated to be the flow developed and used as stock water and for irrigation from each spring.

Signature of Owners: Lawrence Schaal, William A. Schaal
Date: December 20, 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)

COUNTY OF YOUGUE

On the 7th day of July, 2020, the undersigned officiating probate judge of the County of Yougoue, State of Montana, did then and there appear personally and in open court.

In the matter of the Last Will and Testament of

This instrument was filed by the undersigned, Deputy Probate Judge, and is now on file and on file and on file

And the same is hereby proved and declared to be the Last Will and Testament of the deceased and admitted to probate.

I, the undersigned, Deputy Probate Judge, did then and there make and subscribe this certificate of probate to the proceedings of said court.

Deputy Probate Judge

County Clerk & Recorder

[Signature]

[Date]
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER COMMISSION
OFFICE OF STATE ENGINEER

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

Date of Appropriation of Groundwater: May 1954
Lawrence L. Schaal and William A. Schaal
Owner: Address: 3414 Spruce
Billings, Montana
Contractor (If any): None
Address of Contractor: None
Date Started: May 1954
Date Completed: May 1954

Describe means of obtaining groundwater without a well “as by sub-irrigation and other natural processes”. Include depth to water when applicable. **The water is obtained from surface springs by sub-irrigation and other natural processes.**

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.

All of the springs flow naturally the year around. 1 cu. ft. per second is estimated to be the flow developed and used as stock and for irrigation from each spring.

Signature of Owner: Lawrence Schaal
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

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: May 1954
Lawrence L. Schaak and William A. Schaak
Owner ____________________________________________
Address _________________________________________
Billings, Montana

Contractor (if any) None
Address of Contractor None
Date Started May 1954 Date Completed May 1954

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes" Include depth to water when applicable: The water is obtained from surface springs by sub-irrigation and other natural processes.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate length of periods of use. All of the springs flow naturally the year around.

1 cu. ft per second is estimated to be the flow developed and used as stock water, and for irrigation from each spring. This spring is developed to supply domestic water.

Signature of Owner Lawrence L. Schaak
Date December 20, 1963

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

These 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 Approprior.
STATE OF MONTANA
County of Yellowstone

This instrument was filed in my office this day of , 19

Edmon S. Raddick,
County Clerk & Recorder

Deputy
Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: May 1954

Lawrence L. Schaak and William A. Schaak
Owner: Address: 2414 Spruce
Billings, 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 processes". Include depth to water when applicable. The water is obtained from surface springs by sub-irrigation and other natural processes.

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.

All of the springs flow naturally the year around. 1 cu. ft per second is estimated to be the flow developed and used as stock water and for irrigation from each spring.

Signature of Owner: Lawrence L. Schaak

Date: December 20, 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
County of Yellowstone
This instrument was filed in my office this 20 DEC 80 1979

By
Deputy

[ seal ]
# Groundwater Index

**County:** Yellowstone  
**Twp.:** 2S  
**Rge.:** 29E

<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>Trank, Margaret J. t</td>
<td>GW1</td>
<td>721145</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Josephina, Harriet J.</td>
<td>GW4</td>
<td>721111</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Trank, Margaret J. t</td>
<td>GW1</td>
<td>923436</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Scott, John P</td>
<td>GW3</td>
<td>923436</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Scott, Mr. John</td>
<td>GW3</td>
<td>108436</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Woodard, Hubert F.</td>
<td>GW2</td>
<td></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)

Josephson
Margaret J. and Harry J.,
(Name of Appropriator)
520 Avenue D,
(Billings) (Address)

County of Yellowstone
State of 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.

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) unknown.

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 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.

10. The estimated amount of groundwater withdrawn each year unknown.

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

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

Signature of Owner

Date December 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 School of Mines 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)

Joseph en

Margaret J. Trask and Harriet J. (Addresses)

County of Yellowstone 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 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): unknown.

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: no.

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1919 - natural flow.

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: natural flow.

10. The estimated amount of groundwater withdrawn each year: unknown.

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

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

Signature of Owner: Margaret J. Trask

Date: December 29, 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 School of Mines 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: John R. Scott, Jr.
Address: P.O. Box 1772
Billings, Montana

Date well started
3:00 p.m.

Date well completed

Type of well: Drilled
Equipment used: Rotary

Water Use:
Domestic ☐, Municipal ☐, Stock ☐, Irrigation ☒, 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 26,280,000 gal.

PERFORATIONS:

<table>
<thead>
<tr>
<th>Size of Perforated Hole (Feet)</th>
<th>Size and Weight (Square Foot)</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NE 1/4 5th 1/4 Sec. 5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>T. 2S N 29</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

*Measured from ground level.
Well developed by for hours.
Power Pump.
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

LICENSE NO.

50064
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: John R. Scott, Jr.**

**Address:** Billings, Montana

**Date well started:** 3/3/1972 **Date completed:** 4/1/1972

**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:** 26,280,000 gal.

<table>
<thead>
<tr>
<th>Size of Drill</th>
<th>Size and Weight of Pipe</th>
<th>Depth (ff)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 1/2</td>
<td>2341 0</td>
<td>2401</td>
<td></td>
</tr>
</tbody>
</table>

**Static water level:** 800 ft

**Pumping water level:** 30 ft

**Gallons per minute:** 30

**Measured 60 minutes after pumping began.**

*Measured from ground level.**

**Well developed:** 8:00 a.m. for 48 hours.

**Power:** 3 HP, Pump: 3 HP, HP

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

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

**Driller's Signature:**

**Driller's Address:** Billings, Mont.
**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:** John R. Scott Jr.

**Address:** P.O. Box 1972

Billings, Montana

**Date well started:** Dec 22, 1972

**Date completed:** 1/6/1973

**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:** 26,280,000 gals.

---

**Top of Ground (Ft. above sea level):** 3700

---

**Perforations:**

- **Static water level:** 800 ft.
- **Pumping water level:** 2200 ft.

---

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

---

**License No:**

**Driller's Signature:**

---

**Driller's Address:**

---

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

---

**2927** Show exact depth of bottom

---

**FILE NO:** 928635

---

**File Date:**

---

**County:**

---

**DEPARTMENT OF WATER RESOURCES**

---

**SECRETARY OF STATE OF MONTANA**

---

**ADMINISTRATOR OF GROUNDWATER CODE**

---

**MONTANA DEPARTMENT OF REVENUE**

---

**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:**

**Address:**

**Date well started:**

**Date completed:**

**Type of well:** Drilled

**Equipment used:** Rotary

**Water Use:**

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:**

---

**Perforations:**

- **Static water level:**
- **Pumping water level:**

---

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

---

**License No:**

**Driller's Signature:**

---

**Driller's Address:**

---

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

---

**FILE NO:**

---

**County:**

---

**DEPARTMENT OF WATER RESOURCES**

---

**SECRETARY OF STATE OF MONTANA**

---

**ADMINISTRATOR OF GROUNDWATER CODE**

---

**MONTANA DEPARTMENT OF REVENUE**
Owner: Mr. John Scott
Address: Scott Ranch Co., Billings, Montana
Date well started: June 16, 1972, 3:01 p.m.
Date well completed: June 20, 1972
Type of well: Drilled (Dug, driven, bored or drilled)
Equipment used: Rotary (Chisel drill, rotary or other)
Water Use: Domestic, Municipal, Stock, Irrigation, Industrial, Drainage, Other

**Estimates of Annual Withdrawals**

<table>
<thead>
<tr>
<th>Depth of Borehole</th>
<th>Size of Borehole</th>
<th>Size of Sandwell</th>
<th>Water Level</th>
<th>Est. Annual Withdrawal</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 3/4&quot; /33&quot; Surf. 80</td>
<td>Carrier Gun-4&quot;</td>
<td>20 shots</td>
<td>2880</td>
<td>2890</td>
</tr>
<tr>
<td>9&quot; /23&quot; 80</td>
<td>2956</td>
<td>14 shots</td>
<td>2896</td>
<td>2903</td>
</tr>
<tr>
<td>2896</td>
<td>32 shots</td>
<td>2806</td>
<td>2822</td>
<td></td>
</tr>
</tbody>
</table>

Static water level: 468 ft.

Pumping water level: 2880 ft.

Gallons per minute: measured minutes after pumping began.

Power: Pump HP: 2.0

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

**Indicate Location of Well and Place of Use, if Possible**

- Show exact depth of bottom: 3025 ft.

**Driller's Log**

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

**County: Yellowstone**

**License No.**

**Billings, Montana 59103**
**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**

<table>
<thead>
<tr>
<th>Est.</th>
<th>To (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| 1800 | 2600 Shale, dark gray, some silty sandstone |
| 2600 | 2620 Silstone, gray, medium hard |
| 2620 | 2650 Shale, dark gray silty |
| 2650 | 2710 Sandstone, fine grained, gray, silty |
| 2710 | 2750 Shale, dark gray, interbedded sandstone and silstone |
| 2750 | 2844 Shale, red-purple, transgressive sandstone |
| 2844 | 2850 Sandstone, fine grained, gray, shaly as above |
| 2850 | 2880 Shale, red-purple, sandstone as above |
| 2880 | 2920 Sandstone, fine grained, gray, sandstone |
| 2920 | 3000 Shale, red-purple, green, slightly silty |
| 3000 | 3210 Silty sandstone, reddish colored as above |

**Static water level**...468 ft.

**Pumping water level**...466 ft at 9000 gallons per minute measured 30 minutes after pumping began.

*Measured from ground level.*

**Well developed by**...for 5 hours.

**Power**...9 hp Pump...

**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*

*Driller's Address*...Billings, Montana

---

**Moilen Drilling Co., Inc.**

**License No.**...659

**P.O. Box 659**

**Billings, Montana 59103**
Notice of Completion of Groundwater Appropriation by Means of Well

Owner: Robert E. Woodard
Address: 1354 Ave. C
Billings, Montana

Big Snowy Drilling Address: Box 2083
Billings, Montana

Date of Notice of Appropriation of Groundwater Filed: 3-28-62
Date well started: 4-6-62
Date completed: 4-6-62

Type of well: Drilled
Equipment Used: Rotary
(dug, driven, bored or drilled)

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</th>
<th>Size and Weight of</th>
<th>Pieces</th>
<th>To</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drilled Hole</td>
<td>Casing</td>
<td>(Feet)</td>
<td>(Feet)</td>
<td>Kind</td>
</tr>
<tr>
<td>9&quot;</td>
<td>10-3/4&quot; 44g</td>
<td>0</td>
<td>113</td>
<td>Cemented w/ 100 oz regular cement</td>
</tr>
<tr>
<td>7&quot; 23#</td>
<td>0</td>
<td>2997</td>
<td>Slotted 2970</td>
<td>2995</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:
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 School of Mines and Quadruplicate for the Appropriator.
<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>5</td>
<td>Wagner, Howard E. Jr.</td>
<td>1457 Well Log</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
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<td></td>
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<td>5</td>
<td>Wagner, Howard E. Jr.</td>
<td>1457 Well Log</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Wagner, Howard E. Jr.</td>
<td>1457 Well Log</td>
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<td></td>
</tr>
<tr>
<td>6</td>
<td>Webster, Loren</td>
<td>1457 Well Log</td>
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<tr>
<td>6</td>
<td>Webster, Loren</td>
<td>1457 Well Log</td>
<td></td>
<td></td>
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<tr>
<td>6</td>
<td>Webster, Loren</td>
<td>1457 Well Log</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Hagan, W. H.</td>
<td>G1120</td>
<td>637707</td>
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<tr>
<td>9</td>
<td>Richland, Norbert</td>
<td>G114</td>
<td>721097</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Richland, Norbert</td>
<td>G114</td>
<td>721097</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Lyons, Tuma C. &amp; Elma</td>
<td>1457 Well Log</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Stricker, Ferdinard</td>
<td>G114</td>
<td>679172</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Stricker, Ferdinard</td>
<td>G114</td>
<td>679172</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Fatzinger, Everett</td>
<td>G114</td>
<td>721107</td>
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<tr>
<td>21</td>
<td>Harst, Fred Sr.</td>
<td>G113</td>
<td>721097</td>
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<tr>
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<td>G113</td>
<td>721097</td>
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</tr>
<tr>
<td>23</td>
<td>Harst, Fred Sr.</td>
<td>G113</td>
<td>721097</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Stricker, Ferdinard</td>
<td>G114</td>
<td>679172</td>
<td></td>
</tr>
</tbody>
</table>
Form No. 18  
8-60

<table>
<thead>
<tr>
<th>County</th>
<th>T. 38 R. 24</th>
</tr>
</thead>
</table>

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

Water Well Log  
STATE ENGINEER

Owner:  
Driller:  
Address:  
Address:  
Date Started: May 14-61  
Date Completed: July 2-61
Location: Sec. 8 T. 38 R. 24 1 sec. 81 MINE 4

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Equipment used</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dug, driven, or drilled</td>
<td>(Churn, drill, rotary, other)</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>
</table>

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

Perforated or screened: Ft. to ft. to ft.  
Type of screen or perforations

<table>
<thead>
<tr>
<th>Static water level, for non-flowing well:</th>
<th>feet.</th>
</tr>
</thead>
</table>

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

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

How tested:  
Length of test:  
Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

(over)
# Water Well Log

**Owner:** Howard Ethington  
**Address:** Butte, Montana  
**Driller:**  
**Address:**  
**Date Started:** Sept 1-60  
**Date Completed:** Sept 1-60  
**Location:** Sec. 5 T. 35 R. 24 1/4 sec. SE NW 1/4

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Equipment used</th>
<th>Water use</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Dug, driven, or drilled)</td>
<td>(Churn, drill, rotary, other)</td>
<td>Domestic</td>
</tr>
<tr>
<td>Water use:</td>
<td></td>
<td>Industrial</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Casing:</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ft. to ft.</td>
<td>Cement</td>
<td>2</td>
</tr>
<tr>
<td>ft. to ft.</td>
<td>Type</td>
<td>Size</td>
</tr>
<tr>
<td>ft. to ft.</td>
<td>Type</td>
<td>Size</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Perforated or screened:</th>
<th>Ft. to Ft.</th>
<th>Ft. to Ft.</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Static water level, for non-flowing well:</th>
<th>feet.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Shut-in pressure, for flowing well:</th>
<th>lb./sq. in. on:</th>
<th>(date)</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>How tested:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Length of test</th>
</tr>
</thead>
</table>

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

(over)
## WATER WELL LOG

**STATE ENGINEER**

### General Information

- **Owner:** [Name]
- **Address:** [Address]
- **Driller:** [Name]
- **Address:** [Address]
- **Location:** Sec. [Section], T. [T.], R. [Range], MT
- **Date Started:** [Date]
- **Date Completed:** [Date]

### Well Details

- **Type of Well:** [Type]
- **Equipment Used:** [Type]
- **Water Use:**
  - Domestic
  - Municipal
  - Stock
  - Irrigation
  - Industrial
  - Drainage
  - Other

### Casing Details

- **Casing:** [Type], [Size], [Length]
- **Perforated:** [Type], [Length]
  - [Type], [Length]

### Water Level and Pressure

- **Static Water Level:** [Feet]
- **Shut-off Pressure:** [Lb./sq. in.]
- **Pumping Water Level:** [Feet]
  - [Rate per min]
  - [Depth]

### Test Details

- **How Tested:** [Method]
- **Length of Test:** [Duration]

### Remarks

- [Additional Information]

---
Form No. 18  
8-60

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

Water Well Log

Owner: [Name]
Driller: [Name]
Date Started: [Date]
Date Completed: [Date]
Location: Sec. [Section], T. [Township], R. [Range], Montana

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Equipment used</th>
<th>Water use</th>
<th>Casing: ft. to ft.</th>
<th>Type Casing</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Domestic</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td>Drainage</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Other</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Type of screen or perforations

Static water level, for non-flowing well:

Shut-in pressure, for flowing well:

Pumping water level:

How tested:

Length of test:

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

(over)
Form No. 18  
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Date started: Date completed: 1902.

Location: Sec. 5, T. 3, R. 24E, Sec. 5, T. 4, R. 24E.

Type of well: Dig Equipment used: Pick and Shovel.

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

Industrial [ ] Drainage [ ] Other [ ]

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

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

Type of screen or perforations:

Static water level, for non-flowing wells: varies with rise and fall of river.

Shut-in pressure for flowing wells: lbs. per sq. in. (date)

Pumping water level, measured at: gal. per c., m.

New tested:

Length of test

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

Wells 26 of 5 days
Form No. 18
8-60

COUNTY: YELLOWSTON
Butte, Montana

STATE ENGINEER

Owner: "Jason Webster"  Address: "Silesia Road"

Driller:  Address:

Date Started:  Date Completed: 1916

Location: Sec. 5 T & R 34E 3/4 SE 4

Type of well:  Equipment used:  Pumps & Screen

(Dep. driven or drilled)  (Churn drill, rotary other)

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

Casing:  ft. to  39 ft.  Type: River Bankline

Casing:  ft. to:  Type:

Casing:  ft. to:  Type:

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

Type of screen or perforations:

Static water level, for non-flowing well:  20 ft.  feet

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

Pumping water level: unknown at gal. per 'n.'

How tested:

Length of test:

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

Willie 39 ft deep