STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Robert J. Sutton, of Kalispell
   (Name of Appropriator) (Address) (Town)
   County of Flathead State of Montana
   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

   |    |    |
   ---|---|
   1/4 | 1/4 |

   2. The beneficial use on which the claim is based:
      household, garden and livestock

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been:
      1923

   4. The amount of groundwater claimed (in miner's inches or gallons per minute):
      20 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:
      Garden and farmyard

   6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal:
      Electric pump and pipeline
      SWANK of the SEK Sec. 33, T. 30N. R. 21W.

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
      1923

   8. The depth of water table:
      15 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:
      20 feet deep, 2 inch casing

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 The estimated amount of groundwater withdrawn each year: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

   11. The log of formations encountered in the drilling of each well if available:
        non-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: Robert J. Sutton
   Date:

These 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; quadruplicate for the Appropriator.
STATE OF MONTANA,
COUNTY OF FLATHEAD.

Filed on the 1-5 day of July, A.D. 1942, at 2:00 o'clock M.

County Clerk and Recorder

By ___________

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

Date of Appropriation of Groundwater: May 28, 1969
Owner: Evelyn L. Sirky
Address: d.t. Polaris, Mont.
Contractor (if any): None
Address of Contractor: 
Date Started: 
Date Completed: 

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

Comprising of 3 live flowing springs.
Located as indicated on chart.

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 household uses, stock water and
for irrigational purposes.

Signature of Owner: Evelyn L. Sirky
Date: May 28, 1969

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.
Recently a copy of a groundwater appropriation form,

- GW 1, Notice of Appropriation of Groundwater
- GW 2, Notice of Completion of Groundwater Appropriation by means of Well
- X 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

<table>
<thead>
<tr>
<th>Owner</th>
<th>Address</th>
<th>Location</th>
<th>Document No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paul W. Birky &amp; Evelyn L.</td>
<td>Kalispell, Montana</td>
<td>T. 30N R. 21W, Sec. 34</td>
<td>14004</td>
</tr>
</tbody>
</table>

The form is complete as filed. This is to inform you your GW form has been received and no further action is necessary on your part.

The form is incomplete. 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.

Indicate dates of commencement and completion of springs.

Other.

County recording information is missing. Please forward this information to the Montana Water Resources Board in Helena.
Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: May 28, 1964

Owner

Address

Contractor (if any)

Address of Contractor

Date Started: June 1, 1964

Data Completed: June 6, 1964

Describe means of obtaining groundwater without a well, "as by subterranean and other natural processes." Indicate depth to water when applicable.

Estimated to live springs.

Estimated as indicated on chart.

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

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.

For irrigation purposes

Signature of Owner:

Date:

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

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

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

Original to the County Clerk and Recorder; duplicates to the State Engineer; triplicate to the Montana Bureau of Mines and Geology and quadruplicate for the Appropriation.
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. Harley C. Zedelberg
   (Name of Appropriate)
   of Route 1
   Kalispell
   (Address)
   (Town)
   County of
   Flathead
   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:
   November 10, 1960

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 28 gpm 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 such well or other means of withdrawal:
   [Diagram]

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
   November 10, 1960

8. The depth of water table: 140'

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 - 111' Coating 15.91 Degas.

10. The estimated amount of groundwater withdrawn each year: 900,000 gals.

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

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

Signature of Owner: Harley C. Zedelberg
Date: 1/11/61

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
ADMINISTRATION OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Harley C. Fiedler
of Roze, Kalispell
County of Flathead, State of Montana

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

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

2. Date or approximate date of earliest beneficial use: 1954

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

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

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

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

7. The depth of water table:

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

9. The estimated amount of groundwater withdrawn each year:

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

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

Signature of Owner: Harley C. Fiedler
Date: 12/31/63

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

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

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

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

Harley C. Fredenburg of Route 1, Kalispell
County of Flathead, State of Montana

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

1. Name of Appropriator (Appropriator)
Harley C. Fredenburg

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. 1935 Constant

4. The amount of groundwater claimed, (in gpm) 89 gpm per minute or more

5. If used for irrigation, give the average and description of the lands to which water has been applied and name of the owner thereof
Acre of Field + garden by

THE RESIDENCE ON 21ST
Harley C. Fredenburg

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. May 1935

8. The depth of water table. Approx 8 feet

9. So far as may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater.
Dredged by Drilling 26 feet deep

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

11. The log of formations encountered in the drilling of each well if available.
1 foot of silt 26 feet over sand #3 gravel but
sand and gravel

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

Signature of Owner
Harley C. Fredenburg
Date 11/31/63

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

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

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

Harley C. Selders of Route 1, Kalispell
County of Flathead, State of Montana

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

2. The beneficial use on which the claim is based: Irrigation of crops & pasture

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1951 every year since then to January 1

4. The amount of groundwater claimed (in cubic inches or gallons per minute): All or not less than 600 feet 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: 100 acres of land in section 34, T30N, R21W

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: Groundwater pump in town of Kalispell

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: August 1951

8. The depth of water table: 61

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 inch diameter, 88 feet deep

10. The estimated amount of groundwater withdrawn each year: 600 acre feet

11. The log of formations encountered in the drilling of each well if available: Course hard & gravel

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

Signature of Owner: Harley C. Selders
Date: 1/3/63

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

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

JAN 10 1967

T. 3 S. R. 21 W.

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Owner: John Jones
Address: 123 Main St.
Date of Notice of Appropriation of Groundwater: 7/10/66

Driller: Drilled
Address: 987 Water St.
Date well started: 7/10/66

Type of well: Drilled
Equipment Used: Drilled
(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>Layer of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>7 1/4&quot;</td>
<td>23 #</td>
<td>29 #</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 17 feet.
Shut-in Pressure for Flowing Well: 170 psi.
Pumping Water Level: 170 feet at 20 gal. per minute.
Discharge in gal. per min. of flowing well: 20 gal.
How Tested: Finger Test
Length of Test: 20 ft.

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: 123456
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 School of Mines 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:

Owner: ____________________ Address: ____________________

Contractor (if any): ____________________ Address of Contractor: None

Date Started: ____________________ Date Completed: ____________________

Describe manner of groundwater appropriation as follows:

This is a spring and run by natural processes. It is dug out to a depth of 3 feet and curved up with a 4 foot curbing.

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:

Water is good pure water used for year round household use, drinking and lawn irrigation. It is piped a distance of 100 feet with a piston pump, which delivers 400 gallons per hour.

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.

December 30, 1963

Signature of Owner:

Date:

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

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

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

July 26, 1969

Owner: Ruth Evelyn Smith
Address: 109 W. Washington
Duvre, Montana

Contractor: None
Address of Contractor: 
Date Started: 
Date Completed: 

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

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

All household uses, stock water and irrigation purposes

Signature of Owner: Ruth Evelyn Smith
Date: July 26, 1969

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)

July 28, 1969

Date of Appropriation of Groundwater: 

Owner: 

Address: 

Contractor (if any): none

Address of Contractor: 

Date Started: 

Date Completed: 

Describe means of obtaining groundwater without a well “as by
sprinkler-irrigation and other natural processes”; Include depth to
water when applicable: Consisting of 3 springs
located as directed on chart

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 household uses, stock water

and irrigation purposes

Signature of Owner: 

Date: July 28, 1969

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.
Recently a copy of a groundwater appropriation form,

- GW 1, Notice of Appropriation of Groundwater
- GW 2, Notice of Completion of Groundwater Appropriation by means of Well
- X 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: James Terry & Ruth Smith
ADDRESS: Havre, Montana 59501
LOCATION: 30N, R. 21E, Sec. 34
DOCUMENT NO.: 14023

The form is complete as filed. This is to inform you that your GW form has been received and no further action is necessary on your part.

The form is incomplete. 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 dates of commencement and completion of development of springs.

Other.

County recording information is missing. Please forward this information to the Montana Water Resources Board in Helena.

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; Quadruplicate for the Appraiser.
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: July 28, 1969

Owner: Bessie Smith
Address: 3045 Farnsworth Ave, Great Falls, Montana

Contractor (if any): None
Address of Contractor:

Date Started/Date Completed: July 1967

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes"consisting of 3 springs
located as directed on chart

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 household uses, stock water and irrigation purposes

Signature of Owner:

Date: July 28, 1969

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 Appropriate.
Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater

Owner: [Name]  
Address: [Address]

Contractor (if any): [Name]  
Address of Contractor: 

Date Started:  
Date Completed: 

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

WATER IS PUMPED TO HOUSE AND GARDEN
FROM STREAM THAT COMES FROM SPRING

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.

9000 GALLONS PER DAY

Signature of Owner: [Name]  
Date: [Date]

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

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

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

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

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

Owner: 
Address: 

Driller: 
Address: 

Date of Notice of Appropriation of Groundwater: 

Date Well Started: 
Date Completed: 

Type of well: 
Equipment Used: 

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 groundwater strata and height to which water rises in the well.

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 Montana Bureau of Mines and Geology and quadruplicate for the Appropriator.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Robert J. Sutton
   (Name of Appropriator) Kalispell
   (Address) (Town)

County of Flathead
State of Montana

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

2. The beneficial use on which the claim is based:
   household, garden and livestock

3. Date or approximate date of earliest beneficial use; and how continuous the use has been:
   Drilled in 1930

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 20 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:
   Garden and farmyard

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal:
   Use of Pump of Sec. 34, T. 30 N., R. 21 W. (Pump and pipeline)

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:
   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:
   172 ft. deep; 5 inch casing

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

11. The log of formations encountered in the drilling of each well if available:
    Non-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: Robert J. Sutton
Date: July 6, 1962

These forms 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 Minerals; quadruplicate for the Appropriator.
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

Arnold Trentman and Clarence Trentman
(Name of Appropnator) (Address) (Town)

County of Flathead State of Montana

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

| 1/4 | NW | Sec 34 | T30N | R2W |

2. The beneficial use on which the claim is based: domestic, stock watering and irrigation.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1926 and continuous since then.

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: 1/4 of garden, 50x50 feet, NW 1/4 of the NW Quarter of Section 34, Township 30 N, R2W.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: pump and well; well located in the NW Quarter of the NW Quarter of Section 34, T30N, R2W.

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

8. The depth of water table: 20 feet.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: dug well lined with concrete, hexagonal in shape, 48" in diameter, 24 feet deep.

10. The estimated amount of groundwater withdrawn each year: 125,000 gallons.

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

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

Signature of Owner: ___________________________
Date: December 31, 1963.

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

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

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

1. United States of America
   (Name of Appropriator)

County of Flathead
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 to mix with fire-retardant chemicals for Human Consumption of Borate Plant Crew

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1960 - used each summer since 1960

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 100-120 gallons 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: 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: 1960 completed July 1960

8. The depth of water table: 60 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: 682 ft. deep

10. The estimated amount of groundwater withdrawn each year: 100,000 gallons

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

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record: not recorded as of 7-19-63

Signature of Owner: M. Remensard
Date: 7-19-63

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

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

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

**MONTANA BUREAU OF MINES AND GEOLOGY**

Butte, Montana

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Owner</td>
<td>John Doe Estate</td>
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<tr>
<td>Driller</td>
<td>John Smith</td>
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<td>Date Started</td>
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<tr>
<td>Date Completed</td>
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<td>Location: Sec.</td>
<td>36 T 30N R 21W 1/4 sec. NW/4 of SW4</td>
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**Type of well**

- [ ] Aug (driven, bored, or drilled)
- [ ] Aug by Owner
- [ ] Other:

**Water use**

- [ ] Domestic
- [ ] Municipal
- [ ] Stock
- [ ] Irrigation
- [ ] Industrial
- [ ] Drainage
- [ ] Other:

**Casing**

- [ ] ft. to ft. Type Metal Size 10 x 10
- [ ] ft. to ft. Type Size
- [ ] ft. to ft. Type Size
- [ ] Perforated or Screened: From to ft. 1 ft. to ft.
- [ ] Type of screen or perforations: Trench cut valves
- [ ] Static Water level, for non-flowing well: River level 
- [ ] Shut-in pressure, for flowing well: lb/sq in. on: (date)
- [ ] Pumping water level: River level feet at 800 gal per min
- [ ] How tested: Open Sight
- [ ] Length of test: (in feet)

**Remarks**

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

---

(over)
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner: Charles P. Dunn, Estate
Address: Manager

Driller: Jack A. Dunn
Address:

Date Started: 1937  Date Completed: 1937

Location: Sec. 36 T. 36N R. 21W 1/4 sec. 36 NW 1/4 NW 1/4

Type of well: 
Equipment used: 

Water use: Domestic    Municipal    Stock    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.  Type    Size

Type of screen or perforations: Natural openings between logs

Static Water level, for non-flowing well: feet

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

Pumping water level  Rain level  feet at  600 gal. per min.

How tested: Open sight

Length of test: 15 years

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

(over)
**STATE OF MONTANA**  
**ADMINISTRATOR OF GROUNDWATER CODE**  
**OFFICE OF STATE ENGINEER**

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

<table>
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<th>[Name of Appropriator]</th>
<th>[Address]</th>
<th>[Town]</th>
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<tbody>
<tr>
<td>[Name of Appropriator]</td>
<td>[Address]</td>
<td>[Town]</td>
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County of State of Montana have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

1. **The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.** 1950  
2. **The beneficial use on which the claim is based.** Livestock, irrigation, garden
3. **Date or approximate date of earliest beneficial use; and how continuous the use has been.** 1950 - present
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.**

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<th>[Name of Appropriator]</th>
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7. **The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.** 1950  
8. **The depth of water table.** 6
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.** 100,000 gal
11. **The log of formations encountered in the drilling of each well, if available.**
12. **Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.**

**Signature of Owner** [Name of Appropriator]  
**Date** Nov 27, 1963

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology and quadruplicate for the Appropriator.
STATE OF MONTANA
COUNTY OF FLATHEAD
Filed on the 27th day of Nov., A.D. 1963, and

County Clerk and Recorder
By
Deputy
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<td>17285</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Anderson, Charles J.</td>
<td>Gw2</td>
<td>17285</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Hane, Arthur F.</td>
<td>Gw2</td>
<td>16925</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Hane, Harold</td>
<td>Gw2</td>
<td>16925</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Stuhr, D. W.</td>
<td>Gw2</td>
<td>12301</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Allen, Fred</td>
<td>Gw2</td>
<td>12301</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Daily, Elmer</td>
<td>Gw2</td>
<td>10127</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Daily, John</td>
<td>Gw2</td>
<td>10127</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Daily, John</td>
<td>Gw2</td>
<td>10127</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Hill, Frank W.</td>
<td>Gw2</td>
<td>14731</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Lynch, Walter E.</td>
<td>Gw2</td>
<td>11638</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Scholtz, Charles</td>
<td>Gw2</td>
<td>11638</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Scholtz, Charles</td>
<td>Gw2</td>
<td>11638</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Marshfield, Elmer</td>
<td>Gw2</td>
<td>9362</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Podrazek, Elmer</td>
<td>Gw2</td>
<td>8355</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Cooper, Albert</td>
<td>Gw2</td>
<td>11527</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Cooper, Albert</td>
<td>Gw2</td>
<td>11527</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Cooper, Albert</td>
<td>Gw2</td>
<td>11527</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Thompson, Ben E.</td>
<td>Gw2</td>
<td>9362</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Thompson, Ben E.</td>
<td>Gw2</td>
<td>9362</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Thompson, Ben E.</td>
<td>Gw2</td>
<td>9362</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Stebb, Robert D.</td>
<td>Gw2</td>
<td>13374</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Frederick, Frederick</td>
<td>Gw4</td>
<td>10125</td>
<td></td>
</tr>
</tbody>
</table>
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner: Anaconda Aluminum Company  Address: Columbia Falls, Mont.
Distributor: Leyne Minnesota Company  Address: Billings, Montana

Date Started: March 11, 1954  Date Completed: March 15, 1954
Location: Sec. 2  T. 30 N.  R. 20 W.  W. N. M.  Sw.

Type of well: Dug 36" Cased 16"  Equipment used: Pick and Shovel

Water use: Domestic  Municipal  Stock  Irrigation  Other:

Casing: 1106.85 ft. to 2996.96 ft.  Type: Steel  Size: 16"
Casing: 2996.96 ft. to 2996.96 ft.  Type:  Size:

Perforated or Screened: 2996.96 ft. to 2996.96 ft.  Type:  Size:

Type of screen or perforations: Johnaton 16" Screen

Static Water level, for non-flowing well: 3016.36

Shut-in pressure, for flowing well: 760 lb./sq. ln. on: 4.2 (date)

Pumping water level: 3000 ft. at 242 gal. per min.

How tested: By Continuous Pumping

Length of test: 118 Hr.

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

Hole No. L 10  Permanent Well #3
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>3064.0</td>
<td>Gravel, Rock and Clay Streaks</td>
</tr>
<tr>
<td>3061.0</td>
<td>Gravel &amp; Clay Sand</td>
</tr>
<tr>
<td>3058.0</td>
<td>Gravel &amp; Boulders</td>
</tr>
<tr>
<td>3057.0</td>
<td>Rock, Sand, Some Sandy Clay</td>
</tr>
<tr>
<td>3022.0</td>
<td>Coarse Gravel &amp; Sand</td>
</tr>
<tr>
<td>3020.0</td>
<td>Hard Fine Sand</td>
</tr>
<tr>
<td>2996.0</td>
<td>Coarse Gravel &amp; Sand</td>
</tr>
<tr>
<td>2993.0</td>
<td>Fine Gravel &amp; Sand</td>
</tr>
<tr>
<td>2991.0</td>
<td>Coarse Rock &amp; Sand</td>
</tr>
<tr>
<td>2990.0</td>
<td>Cemented Rock &amp; Sand</td>
</tr>
<tr>
<td>2971.0</td>
<td>Gravel Rock &amp; Sand</td>
</tr>
</tbody>
</table>
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner: Anaconda Aluminum Company
Address: Columbia Falls, Mont.

Driller: Layna Minnesota Co.
Address: Billings, Mont.

Date Started: July 1954
Date Completed: Aug. 14, 1954

Location: Sec. 2, T. 30 N. R. 20 W. § sec. NE 1 SW 1

Type of well: Dug 16" Cased 16" Equipment used: Pick & Shovel

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

Industrial [x] Drainage [ ] Other: [ ]

Casing: 3113.67 ft. to 3235.22 ft. Type: Steel Size: 16"

Casing: [ ] ft. to [ ] ft. Type: [ ] Size: [ ]

Perforated or Screened: Ft. 2915.28 to Ft. 2962.64 to

Type of screen or perforations: Johnston 16" Screen

Static Water level, for non-flowing well: 3017.36 ft. (River El. 3016.0) feet

Shut-in pressure, for flowing well: ______ lbs. sq. in. on: ______ (date)

Pumping water level: 3012.77 ft. at 1508 gal. per min.

How tested: By Continuous Pumping

Length of test: 7 Days

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

Hole No. L 14 Permanent Well #4

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>3139.5</td>
<td>Coarse Rock &amp; Gravel</td>
</tr>
<tr>
<td>3104.5</td>
<td>Sand and Gravel</td>
</tr>
<tr>
<td>3100.5</td>
<td>Clay and Gravel</td>
</tr>
<tr>
<td>3097.5</td>
<td>Gravel and Sand</td>
</tr>
<tr>
<td>3083.5</td>
<td>Clay and Gravel</td>
</tr>
<tr>
<td>3079.5</td>
<td>Clay and Rock</td>
</tr>
<tr>
<td>3069.5</td>
<td>Gravel and Sand</td>
</tr>
<tr>
<td>3067.5</td>
<td>Clay and Gravel</td>
</tr>
<tr>
<td>3064.5</td>
<td>Rock and Gravel</td>
</tr>
<tr>
<td>3051.5</td>
<td>Gravel &amp; Sand</td>
</tr>
<tr>
<td>3040.5</td>
<td>Fine Sand, Clay, Gravel and Silt</td>
</tr>
<tr>
<td>3012.5</td>
<td>Clay &amp; Gravel</td>
</tr>
<tr>
<td>3007.5</td>
<td>Silt, Clay &amp; Gravel</td>
</tr>
<tr>
<td>2997.5</td>
<td>Coarse Sand, Gravel &amp; Boulders</td>
</tr>
<tr>
<td>2991.5</td>
<td>Clay, Sand, &amp; Gravel</td>
</tr>
<tr>
<td>2970.5</td>
<td>1/2&quot; to 4&quot; Gravel</td>
</tr>
<tr>
<td>2956.5</td>
<td>Fine &amp; Coarse Sand &amp; Silt</td>
</tr>
<tr>
<td>2950.5</td>
<td>Fine Sand &amp; Silt</td>
</tr>
</tbody>
</table>
Montana Bureau of Mines and Geology
Butte, Montana

WATER WELL LOG

Owner: Anaconda Aluminum Company  Address: Columbia Hills, Montana
Driller: Layne Minnesota Company  Address: Billings, Montana


Location: Sec. 2  T. 30 N  R. 20 W  Sec. 1/4 SW.

Type of Well: Dug 36" Cased 16" Equipment Used: Pick & Shovel

Type of Well: Dug 36" Cased 16"

Water Use: Domestic  Municipal  Stock  Irrigation  Industrial  Drainage  Other:

Casing: 3123.25 ft to 2985.35 ft  Type: Steel  Size: 16"
Casing: 2985.35 ft to 2961.18 ft  Type:  Size:
Casing: 2961.18 ft to  ft  Type:  Size:

Perforated or Screened: 2985.35 ft to 2961.18 ft  Johnston 16" Screen

Static Water Level, for non-flowing well: 3017.77 feet

Shut-in pressure, for flowing well: 3.7 lb/sq. in. on: (date)

Pumping Water level: 3005.37 feet at 903 gal. per min.

How tested: By Continuous Pumping

Length of test: 84 hr.

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

Hole No. L 13A  Permanent Well #5

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>3123.2-3093.2</td>
<td>Rock and Gravel</td>
</tr>
<tr>
<td>3093.2-3091.2</td>
<td>Sand &amp; Small Gravel</td>
</tr>
<tr>
<td>3085.2-3075.2</td>
<td>Rock, Gravel &amp; Sand</td>
</tr>
<tr>
<td>3075.2-3069.2</td>
<td>Gravel &amp; Sand</td>
</tr>
<tr>
<td>3069.2-3067.2</td>
<td>Clay &amp; Gravel</td>
</tr>
<tr>
<td>3067.2-3063.2</td>
<td>Coarse Sand and Small Gravel</td>
</tr>
<tr>
<td>3063.2-3059.2</td>
<td>Gravel &amp; Clay</td>
</tr>
<tr>
<td>3059.2-3051.2</td>
<td>Large Rock, Gravel and Sand</td>
</tr>
<tr>
<td>3051.2-3046.2</td>
<td>Large Rock &amp; Clay</td>
</tr>
<tr>
<td>3046.2-3043.2</td>
<td>Medium Rock, Gravel &amp; Sand</td>
</tr>
<tr>
<td>3043.2-3022.2</td>
<td>Coarse Sand and Small Rock</td>
</tr>
<tr>
<td>3022.2-3017.2</td>
<td>Coarse Gravel</td>
</tr>
<tr>
<td>3017.2-3011.2</td>
<td>Gravel &amp; Sand</td>
</tr>
<tr>
<td>3011.2-2990.2</td>
<td>Rock, Sand &amp; Gravel</td>
</tr>
<tr>
<td>2990.2-2987.2</td>
<td>Rock, Gravel, Sand &amp; Clay</td>
</tr>
<tr>
<td>2987.2-2984.2</td>
<td>Gravel &amp; Sand</td>
</tr>
<tr>
<td>2984.2-2981.2</td>
<td>Gravel &amp; Clay</td>
</tr>
<tr>
<td>2983.2-2977.2</td>
<td>Gravel, Sand, Rocks &amp; Cemented Gravel</td>
</tr>
<tr>
<td>2977.2-2976.2</td>
<td>Gravel &amp; Clay</td>
</tr>
<tr>
<td>2976.2-2972.2</td>
<td>Gravel, Sand &amp; Cemented Gravel</td>
</tr>
<tr>
<td>2972.2-2971.2</td>
<td>Gravel &amp; Clay</td>
</tr>
<tr>
<td>2971.2-2964.2</td>
<td>Sand &amp; Small Gravel</td>
</tr>
<tr>
<td>2964.2-2955.2</td>
<td>Rock, Gravel &amp; Sand</td>
</tr>
<tr>
<td>2955.2-2952.2</td>
<td>Sand &amp; Gravel</td>
</tr>
</tbody>
</table>
MONTANA BUREAU OF MINES AND GEOLOGY  
BUTTE, MONTANA

WATER WELL LOG

| Owner: Anaconda Aluminum Company | Address: Columbia Falls, Mont. |
| Driller: Olsen & Justin | Address: Columbia Falls, Mont. |
| Date Started: Nov. 1, 1956 | Date Completed: Nov. 6, 1956 |
| Location: Sec. 3 T. 30 N. R. 20 W. sec. SE1/4 SE1/4 |

Type of well: Drilled  
Equipment used: Churn  

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

Casing:  
- Type: Steel  
- Size: 14"  
- Depth: 3021 ft. to 2959 ft.  
- Perforated or Screened:  
  - Depth: 2959 ft. to 2951 ft.  

Static Water level, for non-flowing well: 3101.6 feet  
Shut-in pressure, for flowing well: 3101.6 feet  
Pumping water level: 3008 ft. feet at 1400 gal. per min.  
How tested: By Continuous Pumping  
Length of test: 4 days  
Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)  

Permanent Well 16  
Ultimate Capacity of This Well is 5000 Gallon per Minute.
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>3020.0</td>
<td>Top Soil</td>
</tr>
<tr>
<td>3018.0</td>
<td>Tight Packed Dirty gravel</td>
</tr>
<tr>
<td>3003.0</td>
<td>Dirty Gravel and Water</td>
</tr>
<tr>
<td>2998.0</td>
<td>Tight Packed Sand &amp; Gravel, No Water</td>
</tr>
<tr>
<td>2993.0</td>
<td>Loose Clean Gravel With Water</td>
</tr>
<tr>
<td>2976.0</td>
<td>Moderately Tight Gravel With Water &amp; Some Sand</td>
</tr>
<tr>
<td>2968.0</td>
<td>Tight Packed Dirty San, No Water</td>
</tr>
<tr>
<td>2950.0</td>
<td>Very Loose Clean Gravel with Water</td>
</tr>
<tr>
<td>2950.0</td>
<td>Hard Packed Sand</td>
</tr>
</tbody>
</table>
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

<table>
<thead>
<tr>
<th>Owner</th>
<th>Address</th>
<th>Driller</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anaconda Aluminum Company</td>
<td>Columbia Falls, Mont.</td>
<td>Olaan &amp; Justin</td>
<td>Columbia Falls, Mont.</td>
</tr>
</tbody>
</table>

Date Started: Jan. 20, 1957  Date Completed: Jan. 31, 1957

Location: Sec. 3  T. 30N  R. 20 W  ½ sec.  SE 8E

Type of well: Drilled  Equipment used: Churn

<table>
<thead>
<tr>
<th>Water use</th>
<th>(Oat, drawn, bored, or drilled)</th>
<th>(Churn drill, rotary, other)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic</td>
<td>[ ]</td>
<td>[ ]</td>
</tr>
<tr>
<td>Municipal</td>
<td>[ ]</td>
<td>[ ]</td>
</tr>
<tr>
<td>Stock</td>
<td>[ ]</td>
<td>[ ]</td>
</tr>
<tr>
<td>Irrigation</td>
<td>[ ]</td>
<td>[ ]</td>
</tr>
<tr>
<td>Industrial</td>
<td>[ ]</td>
<td>[ ]</td>
</tr>
<tr>
<td>Drainage</td>
<td>[ ]</td>
<td>[ ]</td>
</tr>
<tr>
<td>Other</td>
<td>[ ]</td>
<td>[ ]</td>
</tr>
</tbody>
</table>

Casing: 3021.6 ft to 2968.0 ft  Type: Steel  Size: 18 inches

Casing: 2968.0 ft to 2960.0 ft  Type: Steel  Size: 18 inches

Perforated or Screened: 2960.0 ft to 2968.0 ft  Type: Johnson 16"  Size: 100 Screen

Static Water level, for non-flowing well: 3010.6 feet

Shut-in pressure, for flowing well: 202.6 lb/sq. in. on: (date)

Pumping water level: 3004.7 feet at 1000 gal. per min

How tested: By Continuous Pumping

Length of test: 4 Days

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

Permanent Well #7

Ultimate Capacity of this well is 5000 Gallons per minute.

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>1020.0 1018.0</td>
<td>Top Soil</td>
</tr>
<tr>
<td>3018.0 3005.0</td>
<td>Tight Packed Dirty Gravel</td>
</tr>
<tr>
<td>3005.0 2981.0</td>
<td>Loose Clean Gravel With Water</td>
</tr>
<tr>
<td>2981.0 2979.0</td>
<td>Dirty Sand No Water</td>
</tr>
<tr>
<td>2979.0 2960.0</td>
<td>Loose Clean Gravel With Water</td>
</tr>
<tr>
<td>2960.0 2955.0</td>
<td>Tight Gravel With Clay Very Little Water</td>
</tr>
<tr>
<td>2955.0 2947.0</td>
<td>Loose Clean Gravel With Water</td>
</tr>
<tr>
<td>2947.0</td>
<td>Hard Packed Sand</td>
</tr>
</tbody>
</table>
## WATER WELL LOG

**Owner:** Anaconda A. Titanium Company  
**Address:** Columbia Falls, Mont.

**Driller:** Layne Minnesota Co.  
**Address:** Billings, Montana

**Date Started:** November, 1953  
**Date Completed:** January, 1954

**Location:** Sec. 3  
**T. 30N**  
**R. 20 W 1/4 sec.**  
**NE: 8-1/4**

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Dag. = 36° Cased 16&quot;</th>
</tr>
</thead>
</table>

**Equipment used:** Pick & Shovel

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

**Casing:**  
- 3105.00 ft. to 3102.66 ft.  
- Type: Steel  
- Size: 16"

**Perforated or Screened:**  
- From 3002.66 ft. to 2992.66 ft.  
- Type: Johnston 16" Screen

**Static Water level, for non-flowing well:** 3011.30 feet

**Shut-in pressure, for flowing well:**  
- Date: [ ]

**Pumping water level:** 3006.40 feet  
**Feet at:** 555  
**Gal. per min:** [ ]

**How tested:** By Continuous Pumping

**Length of test:** 7 days

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

**Hole No.:** L 1  
**Permanent Well #:**  [ ]

---

(overt)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>3102.73</td>
<td>3023.7 Sand, Gravel and Boulders</td>
</tr>
<tr>
<td>3023.7</td>
<td>3013.7 Loose Sand and Gravel</td>
</tr>
<tr>
<td>3013.7</td>
<td>2993.7 Sand and Medium Gravel</td>
</tr>
<tr>
<td>2993.7</td>
<td>2989.7 Fine Sand</td>
</tr>
<tr>
<td>2989.7</td>
<td>2928.7 Fine, Brown, Silty Sand</td>
</tr>
<tr>
<td>2928.7</td>
<td>2906.7 Gray, Silty Clay, Good Water Br'g. Formation</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)  

Albert M. Carter and Yida K. Carter  
(Name of Appropriator)  

County of Flathead  
State of Montana  

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

1. The name of the appropriator

2. The beneficial use on which the claim is based  
   Household use, Garden Sprinkling, Lawn, General Purposes  

3. Date or approximate date of earliest beneficial use; and how continuous the use has been  
   1946 - Continuous  

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater  
   October 15, 1960  
   Completed October 19, 1960  

8. The depth of water table  
   25 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  
   Merry 3\% concrete casing from 0' to 25'  

10. The estimated amount of groundwater withdrawn each year  
    2,700,000 gal. tons  

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

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  
    County record  
    Signature of Owner  
    Date December 30, 1962  

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

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

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

JACK N. CHAPIN, of Barstow, Columbia Falls
(Address) (Town)

County of FLATHEAD, State of MONTANA

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 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.
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner: John Smith
Address: 123 Main St, Anytown, MT 12345

Date of Notice of Appropriation of Groundwater: 10/1/2021

Date well started: 10/4/2021

Date well completed: 10/10/2021

Type of well: Dug

Equipment Used: Hand-dug

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

Static Water Level for non-flowing Well: 40 feet

Shut-in Pressure for Flowing Well: 20 feet at 15 gal. per minute.

Pumping Water Level: 20 feet

Discharge in gal. per min. of flowing well: 20 gal.

How Tested: Static

Length of Test: 20 feet

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

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.

Driller's License Number: 123456

Driller's Signature: John Smith

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