Form No. 18

T. 2N. R. 12E.

County Rosebud

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

STATE ENGINEER

Owner Mrs. Lena P. MacDonald Address Forsyth, Montana
Driller L. W. Edlund Address Miles City, Montana
Date Started ___________________ Date Completed 9/10/47
Location: Sec. 26 T. 2N. R. 12E. 1/4 sec. SW

Type of well Drilled Equipment used Rotary drill

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

Casing: 61 ft. to _______ ft. Type _______ Size _______
Casing: _______ ft. to _______ ft. Type _______ Size _______
Casing: _______ ft. to _______ ft. Type _______ Size _______

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

Type of screen or perforations

Static Water level, for non-flowing well: _______ feet.
Shut-in pressure, for flowing well: _______ lb./sq. in. on: _______.

Pumping water level 60 _______ feet at 10 _______ gal. per min.

How tested: Rotary pump

Length of test _______ day

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

<table>
<thead>
<tr>
<th>Depth, Feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>To</td>
</tr>
<tr>
<td>0</td>
<td>31</td>
</tr>
<tr>
<td>31</td>
<td>38</td>
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<td>38</td>
<td>47</td>
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<tr>
<td>47</td>
<td>61</td>
</tr>
<tr>
<td>61</td>
<td>73</td>
</tr>
<tr>
<td>73</td>
<td>80</td>
</tr>
</tbody>
</table>

This information is also given on this log:

- Casing 4" 61' 60 ft.
- Pump pipe 1 1/2" 61' 60 ft.
- Pump rod 7/16" 61' 60 ft.
- Cylinder 2 1/2" x 16 ft. set at 61' 60 ft.
- Working level 60' 60 ft.
- M. per min. 10 gals.
- Remarks 12' 60 ft.
- 12' of pipe below cylinder
Form No. 18
8-60

T. 2N. R. 10E.

County Butte

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

STATE ENGINEER

Owner Mrs. Lena W. McDonald
Address Forsyth, Montana

Driller J. W. Edlund
Address Miles City, Montana

Date Started
Date Completed 11/6/46

Location: Sec. 24 T. 2N R. 10E 1/4 sec. S.E.

Type of well Drilled Equipment used Rotary drill

Drill, driven, bored, or spiraled

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

Industrial [ ] Drainage [ ] Other [ ]

Casing: ft. to ft. Type Perforated Size

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

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

Type of screen or perforations

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

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

Pumping water level feet at gal. per min.

How tested: pumping

Length of test

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

(over)
## Log of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>From</th>
<th>To</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>21</td>
<td>Surface</td>
</tr>
<tr>
<td></td>
<td>21</td>
<td>43</td>
<td>Sand &amp; gravel</td>
</tr>
<tr>
<td></td>
<td>43</td>
<td>61</td>
<td>Blue shale</td>
</tr>
<tr>
<td></td>
<td>61</td>
<td>73</td>
<td>Sandrock</td>
</tr>
<tr>
<td></td>
<td>73</td>
<td>80</td>
<td>Blue shale</td>
</tr>
<tr>
<td></td>
<td>80</td>
<td>85</td>
<td>Sandrock</td>
</tr>
</tbody>
</table>

This information is also given on this log:

- Casing 1" A.W.G. 861 1.3" perforated
- Pump pipe (used) 1 1/2" A.W.G. 551
- Pump rod 7/16"
- Cylinder 2 1/2" x 18"
- Working level 60'
- Int. per minute 15 gals.
<table>
<thead>
<tr>
<th>Form No. 18</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-60</td>
</tr>
</tbody>
</table>

**MONTANA BUREAU OF MINES AND GEOLOGY**

**Butte, Montana**

**WATER WELL LOG**

**STATE ENGINEER**

**Owner** 
Mrs. Lena F. MacDonald

**Address** 
Forsyth, Montana

**Driller** 
L. W. Edlund

**Address** 
Miles City, Montana

**Date Started**

**Date Completed** 12/2/61

**Location** 
Sec. 10  T. 2N  R. LOR  1/4 sec. NW

**Type of well** 
Drilled

**Equipment used** 
Rotary drill

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

**Casing**

<table>
<thead>
<tr>
<th>Ft. to Ft.</th>
<th>Type</th>
<th>Size (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>210</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Screened or Screened**

<table>
<thead>
<tr>
<th>Ft. to Ft.</th>
<th>Type</th>
<th>Size (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**Shut-in pressure, for flowing well**: 1 lb./sq. in. on: (date)

**Pumping water level**: 15 feet at 10 gal. per min.

**How tested**: 

**Length of test**: 

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

(over)
### Log of Well

<table>
<thead>
<tr>
<th>Depth, Feet</th>
<th>From</th>
<th>To</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>15</td>
<td></td>
<td>Surface</td>
</tr>
<tr>
<td>15</td>
<td>30</td>
<td></td>
<td>Gravel (dry)</td>
</tr>
<tr>
<td>30</td>
<td>50</td>
<td></td>
<td>Blue shale</td>
</tr>
<tr>
<td>50</td>
<td>62</td>
<td></td>
<td>Sandy gray shale (1½ gal.) minute</td>
</tr>
<tr>
<td>62</td>
<td>78</td>
<td></td>
<td>Blue-green shale</td>
</tr>
<tr>
<td>78</td>
<td>83</td>
<td></td>
<td>Coal</td>
</tr>
<tr>
<td>83</td>
<td>157</td>
<td></td>
<td>Blue-green shale</td>
</tr>
<tr>
<td>157</td>
<td>210</td>
<td></td>
<td>Sandrock</td>
</tr>
</tbody>
</table>

This information is also given on this log:

- Casing 1" Ant. 210'
- 85' perforated
- Pump pipe 1¾" Ant. 115'
- Pump rod 7/16"n
- Cylinder 2⅛"x20"
- Working level 115'
- Ant. per min. 10 gals.

**Remarks**

5' of 1¼" pipe below cylinder
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Submitted under Chapter 237, Montana Session Laws, 1961)

1. Genia Pulman & Mary Genia Doolin, of Durcyth
   (Name of Appropriator) (Address) (Town)
   County of Rosebud, 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: Livestock water well

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: Nov. 11, 1958
   When stock are in pasture

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 7 Gal per Min at 84 feet

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof: None

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: None

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Nov. 8, 1958 to Nov. 11, 1958

8. The depth of water table: 7 Gal per Min at 84 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: 12 in. casing, 1 1/2 in. well pipe, 7/16 rod 2 in. diameter

10. The estimated amount of groundwater withdrawn each year: Do not no

11. The log of formations encountered in the drilling of each well if available: 0 to 8 Sandy, 8 to 62 Sandrock, 62 to 84 Stew Shale, 84 to 91 Water sand (7 Gal per Min) 91 to 95 Clay, 95 to 104 Shale

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

   Well Log at Ranch

   Signature of Owner: Mary Genia Doolin
   Date: Sept 24, 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 ROSEBUD SS. FILED DEC. 26, 1963, AT 2:30 PM, CO.CLERK
2st fl Howard Reid
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

Francis & Adrienne Brewer
of P. O. Box 594 Forsyth, Montana
(Name of Appropriator)
(Address) (Town)

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

2. The beneficial use on which the claim is based. Stock water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. May 1963

4. The amount of groundwater claimed (in miner's inches or gallons per minute). Between 11 and 12 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. Motor and pump jack

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Started and completed May 1963

8. The depth of water table. Approximately 30 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. 84 feet deep, drilled well, 4" casing

10. The estimated amount of groundwater withdrawn each year. 225,000 gallons

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: Francis Brewer
Date: December 30, 1963

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
STATE OF MONTANA, COUNTY OF ROSEBUD SS: FILED DEC. 30, 1963, AT 2:30 P.M., CO. CLERK
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Gentle Pulmer and Mary Gentle Dowlin, of Forsyth
   (Name of Appropriator) (Address) (Town)
   County of Rosebud 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.
      Livestock Water Well

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been.
      May 26, 1960
      When ever stock are in pasture

   4. The amount of groundwater claimed (in miner's inches or gallons per minute) 39 gal per min at 95 feet

   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.
      Wind

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.
      May 26, 1960

   8. The depth of water table.
      30 to 95 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: 63 in. OD casing, 14 in. well pipe, 7/16 rod.
      in all Draca Equalizer

   10. The estimated amount of groundwater withdrawn each year.
      Do not know

   11. The log of formations encountered in the drilling of each well if available.
      0 to 30 clay, 10 to 30 sandy clay, 45 to 90 brown silt, 65 to 90 blue shale, 50 to 95 sandrock
      (wet to 195 to 125 Sandstone Water)

   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.
      Well Log on file

Signature of Owner

Date: Sept. 25, 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
FIFTH JUDICIAL DISTRICT COURT
STRICT PLATE
COUNTY

FILED DEC.
1963 AT 10:00 A.M., CO. CLERK

[Signature]
SHERIFF'S DEP.
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. Ray F. Houston, Rose Bud, MT
   (Name of Appropriator) (Address) (Town)
   County of Rose Bud, 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.
      W = 2, S = 4, T = 6, R = 1
      W = 3, S = 1, T = 2, R = 1

   3. Date or approximate date of earliest beneficial use, and how continuous the use has been. W = 1916, S = 1963
   
   4. The amount of groundwater claimed (in minor's inches or gallons per minute).
      W = 6 GPM, S = 2 GPM
      W = 3 GPM

   5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof.
      None

   6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.
      None

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.
      W = 1916, W = 1943

   8. The depth of water table. W = 40, W = 70, W = 841

   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. W = 100', S = 200', T = 300', R = 400'

   10. The estimated amount of groundwater withdrawn each year.
      W = 36,500
      W = 36,500
      W = 36,500

   11. The log of formations encountered in the drilling of each well if available. W = sandstone, siltstone, shale, etc.

   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 Appropriator: Ray F. Houston

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
DECLARATION OF VESTED GROUNDWATER RIGHTS

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Gaila Pulmara & Mary Gaila Dublin, of Fort Worth, (Name of Appropriator)
   Address
   County of Rosebud, 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:
      Livestock Water Well

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been: May 14, 1959

   4. The amount of groundwater claimed (in miner's inches or gallons per minute): 6 gal per min. at 165 feet

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

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

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: May 7, 1959 to May 14, 1959

   8. The depth of water table: 6 ft. in. per min. at 165 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: 42 in. OD casing, 2 in. well pipe, wood rod, 1 3/16 in. by 30 ft. diameter

   10. The estimated amount of groundwater withdrawn each year: Do not know

   11. The log of formations encountered in the drilling of each well if available: 0 to 3 drift, 3 to 10

   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 county record:

   Signature of Owner:

   Date: Sept. 24, 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 to the Appropriator.

13158
STATE OF MONTANA, COUNTY OF ROSEBUD SS. FILED DEC. 26th, 1963, AT 1:30 P.M., CO. CLERK.

Deputy

26th, 1963.

By: Elliot Clark, Dep.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Tom Hageemar, of Forsyth, (Name of Appropriate) State of Montana, (Town)
   County of Broadwater
   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

<table>
<thead>
<tr>
<th>N</th>
<th>E</th>
<th>Sec.</th>
<th>T. 20N.40</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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

   - [ ] stock water
   - [ ] irrigation
   - [X] other

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

   - 1960 every day

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:

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

   - Pump/jack/engine

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

   - 1960

8. The depth of water table:

   - 80 feet

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

   - 6-inch casing
   - 130 ft. depth

10. The estimated amount of groundwater withdrawn each year:

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

   - 0-30 clay, 30-65 gravel, 65-60 shale, 60-100 sand, 100-130 sand, 130 water

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: Tom Hageemar

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.
180175

STATE OF MONTANA, COUNTY OF ROSEBUD SS. FILED JAIL 26, 1964, ATTORNEY, CO. CLERK
Howard Lake

By: Helen Clark, Sp
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

Northern Pacific Railway Company, of N.P. Office Bldgs., St. Paul, Minn.,
(Name of Appropriator)
(Address)
(Town)

County of Ramsey
(State of Minnesota)

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

1. (Name of Appropriator) (Address) (Town)

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: continuous since 1868.

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

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof: None.

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Drilled in 1868.

8. The depth of water table: 80 feet.

9. So far as it may be available, the type, size, and depth of each well or the general specifications of any other works for the withdrawal of groundwater: 185 feet deep - 4-inch casing.

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

11. The log of formations encountered in the drilling of each well if available: No log 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: No other information available.

Northern Pacific Railway Company
Signature of Owner

District Supervisor, Terr. and Cult.

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.
179340

STATE OF MONTANA.
COUNTY OF ROSEBUD

AIR \\

\(\text{Howard} \)

\(\text{Ist Day of December} \)

\(\text{This} \)

\(\text{Doctor} \)

\(\text{M.K.} \)

\(\text{18\text{th}} \)

\(\text{District Judge} \)

\(\text{L. M.} \)
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Gene Pulmor & Mary Gene Pulmor of Forsyth
(Name of Appropriator) (Address) (Town)

County of Rosebud State of Montana

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

2. The beneficial use on which the claim is based
Stock water

3. Date or approximate date of earliest beneficial use; and how continuously the use has been
Feb. 26, 1956
When ever stock are in pasture

4. The amount of groundwater claimed (in minor's inches or gallons per minute) 12 gal per min at 261 feet
1/4 gal per min at 65 feet
1 7/4 gal per min at 174 feet

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
Feb. 26, 1956 to Feb. 26, 1956

8. Depth of water table: 14 ft to 75 3/4 ft; 14 1/4 to 117 3/4 ft; 13 1/2 to 231

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: 266 feet of 4 in. 80 casing, 231 feet of 2 in. well pipe, 35 feet of wood pump rod, 2 in working hand auger

10. The estimated amount of groundwater withdrawn each year
Do not know

11. The log of formations encountered in the drilling of each well if available: 0 to 4 ft. dirt, 4 to 8 ft sandstone, 0 to 10 ft clay, 10 to 15 ft. rock, 15 to 25 ft. sandstone, 25 to 31 ft. shale, 31 ft. to 65 ft. mudstone, 65 to 70 ft. coal, 70 to 90 ft. black shale, 90 to 117 ft. sandstone, 117 ft. to 144 ft. sandstone, 144 ft. to 157 ft. sandy shale, 157 ft. to 159 ft. sandstone, 159 ft. to 180 ft. hardpan, 180 to 216 ft. sandstone, 216 ft. to 231 ft. water sand. 231 to 256 ft. shale

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

Well Log at Ranch

Signature of Owner

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 ROSEBUD FILED DEC. 22nd, 1963, AT 9 A.M., CO. CLERK

SHERMAN LAW

Clerk: Elma Wark, Dip.
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

   (Name of Appropriator)
   (Address)
   (Town)
   County of Ramsey
   State of Minnesota
   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:
      - Watering livestock.

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been:
      - Continuous since 1947.

   4. The amount of groundwater claimed (in miner's inches or gallons per minute): 7 gallons per minute.

   5. If used for irrigation, give the acreage and description of the land to which water has been applied and name of the owner thereof:
      - None.

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

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
      - Drilled in 1947.

   8. The depth of water table: 65 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:
      - 170 feet deep - 4-inch casing.

   10. The estimated amount of groundwater withdrawn each year:

   11. The log of formations encountered in the drilling of each well if available:
      - 0-15' surficial soil; 16-17' sand rock; 17-69' coal; 70-76' blue-green shale; 76-92' gray shale; 92-107' sand rock; 107-111' limestones; 111-161' sand rock; 161-170' gray shale.

   12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record:
      - No other information available.

Northern Pacific Railway Company
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.
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

<table>
<thead>
<tr>
<th>Northern Pacific Railway Company</th>
<th>H.P. Office Bldgs, St. Paul, Minn.</th>
</tr>
</thead>
<tbody>
<tr>
<td>County of Ramsey</td>
<td>State of Minnesota</td>
</tr>
</tbody>
</table>

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: **watering livestock. Will water 65 head.**

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: **Continuous since 1862.**

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: **None.**

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: **Drilled in 1862.**

8. The depth of water table: **75 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: **250 feet deep - 4-inch casing.**

10. The estimated amount of groundwater withdrawn each year: **No other information available.**

11. The log of formations encountered in the drilling of each well if available: **0-6' top soil; 6-12' black dirt; 12-45' light sand rock; 46-60' brown sand rock; 61-65' shale; 66-123' light shale; 124-128' coal; 129-138' sand shale; 139-148' coal; 149-160' shale; 161-261' light shale; 262-349' water sand - 10 gal. per minute; 249-251' light shale.**

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record: **No other information available.**

Northern Pacific Railway Company
Signature of Owner or Agent:
Distr. Supervisory, Div. & Cult.
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 Applicator.
STATE OF MONTANA, ss.
COUNTY OF ROSEBUD

Filed on the 24th day of December, 1952, at 1:00 o'clock P.M.

Witnesses:

By

[Handwritten text]
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

Northern Pacific Railway Company, of N.P. Office Bldg, St. Paul, Minn.

<table>
<thead>
<tr>
<th>Name of Appropriator</th>
<th>Address</th>
<th>Town</th>
</tr>
</thead>
<tbody>
<tr>
<td>County of</td>
<td>State of</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Minnesota</td>
<td></td>
</tr>
</tbody>
</table>

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: **watering livestock**.

2. Date or approximate date of earliest beneficial use; and how continuous the use has been: **Continuous since 1957**.

3. The amount of groundwater claimed (in miner's inches or gallons per minute): **8 gallons per minute**.

4. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof: **None**.

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

6. The depth of water table: **100 feet**.

7. The type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: **140 feet deep – 4-inch casing**.

8. The depth of water table: **100 feet**.

9. The estimated amount of groundwater withdrawn each year: **No log available**.

10. The log of formations encountered in the drilling of each well if available: **No log 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: **No other information available**.

Northern Pacific Railway Company

<table>
<thead>
<tr>
<th>Signature of Owner</th>
<th>Dist. Supervisor, Graz. &amp; Cult.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Date</td>
</tr>
</tbody>
</table>

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology, and quadruplicate for the Appropriator.
**Declaration of Vested Groundwater Rights**

(Under Chapter 237, Montana Session Laws, 1961)

1. **George J. Falk**
   (Name of Appropriator)
   Of:
   (Address)
   (Town)

   County:
   State of:

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: **March 1, 1957**

4. The amount of groundwater claimed (in miner's inches or gallons per minute): **500**

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: **March 7, 1959**

8. The depth of water table: **930 feet**

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

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

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:

   **W.P. Lewis**
   Signature of Owner: **George J. Falk**
   Date: **Mar. 30, 1963**

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
STATE OF MONTANA, COUNTY
OF ROSEBUD SS. FILED DEC.
30, 1963, AT 11:00 A.M., CO, CLERK

[Signature]
Ly: Ellen Clark, Cpl.
Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: 1911.

Owner: Northern Pacific Railway Company
Address: St. Paul, Minn.

Contractor (if any):
Address of Contractor:
Date Started: Date Completed:

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Spring, used since 1911.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent, estimate approximate lengths of periods of use. Spring flows 2 to 3 gallons per minute, measured over a period of time.

Northern Pacific Railway Company
Signature of Owner:
District Supervisor - Graz. and Cult.
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 Approprietor.
Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: 1923

Owner: [Name]
Address: [Address]

Contractor (if any): 
Address of Contractor: 
Date Started: Date Completed: 

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable...Spring, used since 1923.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent, estimate approximate lengths of periods of use...Spring flows 10 gallons per minute, measured over a period of time.

[Grid for coordinates and description]

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

Northern Pacific Railway Company
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; 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: January 1952.  
Owner: Northern Pacific Railway Company. Address: Helena, Montana.

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

Date Started: January 1, 1952. Date Completed: December 31, 1953.

Describe means of obtaining groundwater without a well “as by sub-irrigation and other natural processes”. Include depth to water when applicable. Spring flows 10 gallons per minute, measured over a period of time.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent, estimate approximate lengths of periods of use: Spring flows 10 gallons per minute, measured over a period of time.

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.
<table>
<thead>
<tr>
<th>Soc.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
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<td>27</td>
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<td>36</td>
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<td>38</td>
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<td>39</td>
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<td>6W-3</td>
<td>197000</td>
<td></td>
</tr>
</tbody>
</table>
State of Montana
Administrator of Groundwater Code
Office of State Engineer

Notice of Completion of Groundwater Appropriation by Means of Well

Developed after January 1, 1962
(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 □  Stock □  Irrigation □

Industrial □  Drainage □  Other □

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

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

N

Static Water Level for non-flowing well

15 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level...

feet.

Discharge in gal. per min. of flowing well

How Tested...

Length of Test...

30 min.

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

1/4 Sec. 7/4 in. 11/4

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

(Continue on reverse side)

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

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

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

Driller's License Number

Driller's Signature

$1,530
**Notice of Completion of Groundwater Appropriation by Means of Well**

**STATE OF MONTANA**

**ADMINISTRATOR OF GROUNDWATER CODE**

**OFFICE OF STATE ENGINEER**

**DEVELOPED AFTER JANUARY 1, 1962**

(Under Chapter 237, Montana Session Laws, 1961)

---

**Owner:** J. M. Winer

**Address:** RT 2

**Driller:** Ronald Askin

**Address:** Miles City

**Date of Notice of appropriation of groundwater:**

**1992 k-p**

**Date well started:**

**July 12**

**Date completed:**

**Aug 18**

**Type of well:** Drilled

**Equipment used:** Charn drill, rotary

**Water use:** Domestic, Municipal, Block irrigation, Industrial, 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 Initial Hole</th>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>5' x 4' Plastic</td>
<td></td>
<td>0</td>
<td>61</td>
<td></td>
</tr>
</tbody>
</table>

**Static Water Level for non-flowing well:**

**10 feet**

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

**55 psi**

**Pumping Water Level:** 86 feet

**at:**

**3** gal. per minute

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

**20 GPM**

**How Tested:** Bailer

**Length of Test:** 30 min.

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

---

**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).

---

**Signature:** [Driller's Signature]

**Driller's License Number:** 5/1300

---

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.
STATE OF MONTANA
COUNTY OF ROSEBUD

Filed on the 2nd day of _[Date]_.
1772 at 11:35 o'clock A.M.

[Signature]
County Clerk & Recorder

[Signature]
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

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 this form may be returned.

Owner: Tom Wimer
Address: Coalville, Mont.
File: 29
Owner's Number: 1100.0
Date well started: Nov. 10, 1971
Completed: Nov. 10, 1971
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

<table>
<thead>
<tr>
<th>Well Diameter (Inches)</th>
<th>Size and Weight of Casing</th>
<th>Feet</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
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</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>6&quot; plastic</td>
<td>61</td>
<td>58</td>
<td>drilled</td>
</tr>
</tbody>
</table>

Static water level: 30 ft.
Pumping water level: 25 ft.

*Measured from ground level. Well developed for 10 hours.

Power: [ ] Pumped: [ ] 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: Ronald L. Ackin
Driller's Address: 210 N. Prairie, Miles City, Mont.
Montana Water Well Drillers LICENSE NO. 183

Show exact depth of bottom

49,680
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: Tom Miner
Address: 215 N. Prairie, Miles City, Mont.

Date well started: Nov. 11, 1971
Completed: Nov. 12, 1971

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 (e.g. Lot, Block and Addition).

ESTIMATED ANNUAL WITHDRAWAL

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>Feet From No. From To</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot; x 8&quot; steel 0</td>
<td>225</td>
<td>splayed 170</td>
<td>210</td>
</tr>
</tbody>
</table>

Static water level: 150 ft.
Pumping water level: 200 ft.
at 8 gallons per minute, measured minutes after pumping began.

*Measured from ground level.
Well developed by settling for 2 hours.
Power: Pump: 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. Show exact depth of bottom

Driller's Signature: Tom Miner
Driller's Address: 215 N. Prairie, Miles City, Mont.

Montana Water Well Driller's License No. 183

Show exact depth of bottom: 225 ft.
STATE OF MONTANA)
COUNTY OF ROSEBUD)

Filed on the 1st day of May

At 7:22 o'clock A.M.

[Signature]

Deputy Clerk of Court

[Signature]
STATE OF MONTANA
ADMINISTRATOR OF THE 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: Tom Wimer
Address: RT 2
          Forsyth, Mont.

Date well started: Nov 12, 1971
Date well completed: Nov 13, 1971

Type of well: Drilled

Equipment used: Rotary

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

*Describe USE: Domestic □  Industrial □  Drainage □  Stock □  Irrigation □
                   Garden/Lawn □  Other □

ESTIMATED ANNUAL WITHDRAWAL 200,000 gal

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

Driller's Signature: Roland Pothecary
Driller's Address: Miles City, Mont.
LICENSE NO. 783

Top of Ground

<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Soil Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Sand</td>
</tr>
<tr>
<td>24.50</td>
<td>Clay</td>
</tr>
<tr>
<td>30.00</td>
<td>Sand (Gravel)</td>
</tr>
<tr>
<td>31.00</td>
<td>Sand</td>
</tr>
</tbody>
</table>

Static water level: 150 ft.
Pumping water level: 165 ft.

Well developed by Bales for 7 hours.
Power: Pump: HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

Show depth at which water is found and height to which water rises in well.
STATE OF MONTANA
COUNTY OF ROSEBUD
Filed on the 15th day of Oct., 1886,
1:30 P.M.

[Signature]

County Clerk & Recorder

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

1. 

(Name of Appropriator) of ___________
(State of)

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

2. The beneficial use on which the claim is based

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

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

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

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

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

8. The depth of water table ___________

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

10. The estimated amount of groundwater withdrawn each year ___________

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

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

Signature of Owner ___________

Date ___________

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the 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)

STATE ENGINEER

1. Tom Wimer of 172 Forsyth
   (Name of Appropriator) (Address) (Town)
   County of Rosebud State of Montana have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: September 1956
   Continuous since that time

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 30 Gallon 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: Used as above which includes watering lawn and trees.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: Electric Motor with Pump Sack and Wood Rod and 24 Cylinder

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Well started using Sept 1956
   Well completed March 22, 1956
   Pump and Sack Drainage Tank completed Sept 1956

8. The depth of water table: About 150 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: Chuck Drilled with Cable Tools
   4 1/2" Hole 237 ft deep, with 4" casing to 237 ft,
   with 2" pipe and 2 1/2" Cylinder Right Deep with 20 ft Wood Pump Rod

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

11. The log of formations encountered in the drilling of each well, if available:
    67 2/3% Sand
    91 10/100 Coal
    91 10/100 Shale
    91 10/100 Shale 12 10/100 Rock
    91 10/100 Sand Shale 15 10/100 Sand Rock 20 10/100 Water Sand
    91 10/100 Shale 30 Gallons per minute Baller Test

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: Tom Wimer
Date: Jan 26, 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 School of Mines and quadruplicate for the Appropriator.
STATE OF MONTANA
COUNTY OF ROSESUD

Filed on the 16th day of June
1918 at 10:20 A.M.

In the matter of the estate of


177120
Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner: John H. Davidson
Address: 1234 Main St., Bozeman, Mont.

Driller: Bill Jones
Address: 5678 Road, Belgrade, Mont.

Date of Notice of appropriation of groundwater: January 1, 1962

Type of well: Drilled

Equipment used: Churn drill

Water use: Domestic

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>Depth (Feet)</th>
<th>Strata Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>Drilled (125') Grey Slate</td>
</tr>
<tr>
<td>125.0</td>
<td>Drilled (115') Blue Slate</td>
</tr>
<tr>
<td>145.0</td>
<td>Drilled (90') Handeck</td>
</tr>
<tr>
<td>165.0</td>
<td>Drilled (80') Limestone</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well: 15 feet

Shut-in Pressure for Flowing Well: 120 psi

Pumping Water Level: 140 feet

Discharge in gal. per min. of flowing well: 40 gal. per minute

How Tested: Bailed

Length of Test: 300 minutes

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

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

Static Water Level for non-flowing well

Show exact depth of bottom.

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, one 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: 1234

Driller's Signature: John H. Davidson

Date: January 1, 1962
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

STATE ENGINEER

T.2.N.R.41E
Reeard

File No.

DUPLICATE

1. Town, Hagerson
   (Name of Appropriator) of Forsyth
   (Address) (Town)

   County of
   State of Montana

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

   N

   W

   x

   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:

   1953

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

   4 gal. per minute

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

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

   family pump engine

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

   1953

   8. The depth of water table:

   30 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:

   hi-per-flooding

   121 ft. deep

   10. The estimated amount of groundwater withdrawn each year:

   Approx. 1500 gal. per day

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

   3ft. clay, 7ft. coal, sand rock.

   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:
   Town, Hagerson
   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.

21990
STATE OF MONTANA, COUNTY OF ROSEBUD SS. FILED JAN 8, 1964, AT "A" M, CO CLERK

James L. Jones

Alg. Clark, Jr.
**Declaration of Vested Groundwater Rights**

(Under Chapter 237, Montana Session Laws, 1961)

1. **The Montana Power Company**, of **40 East Broadway**, **Butte**, (Address) (Town)

   County of **Rosebud**, State of **Montana**

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

   - The Montana Power Company
   - 40 East Broadway
   - Butte

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: **Feb. 19, 1951**

4. The amount of groundwater claimed (in miner's inches or gallons per minute): **Not available**

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 specified**

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

   - **Drilled well - must be pumped**
   - **Total depth - 940'**
   - **10' casing set at 925'**
   - **2-1/2'' tubing set at 670'**

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: **Completion - Feb. 19, 1951**

8. The depth of water table: **Not available**

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

   - **Total depth - 940'**
   - **10' casing set at 925'**
   - **2-1/2'' tubing set at 670'**

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

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

   - **755' of interbedded shales, coal and sandstone**
   - **27' of non-productive water sand from 755' to 782'**

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: **Used for fire protection**

   - **Signature of Owner: THE MONTANA POWER COMPANY**
   - **By: Vice President**
   - **Date: February 1, 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)

1.

(Name of Appropriator)

County of

(State of

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

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

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

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

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

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

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

8. The depth of water table.

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

10. The estimated amount of groundwater withdrawn each year.

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

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

Signature of Owner:

Date:

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

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

Original to the County Clerk and Recorder; Duplilcate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology; and Quadruplicate for the Appropriator.
STATE OF MONTANA, COUNTY OF ROSEBUD
SS. FILED DEC. 30, 1963, AT 1:35 PM, CO. CLERK

[Signature]

[Signature]
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: Drilled
Equipment Used: Churn (drill, rotary or other)

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

Well 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>Stratum</th>
<th>Type of Drilling</th>
<th>Weight of Drilling Tool</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0'-10'</td>
<td>Top Soil</td>
<td>Plastic</td>
<td>0</td>
<td>160</td>
</tr>
<tr>
<td>10'-13'</td>
<td>Sandy Clay</td>
<td>Steel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13'-25'</td>
<td>Sandstone</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25'-85'</td>
<td>Sand + Silt</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>85'-95'</td>
<td>Black Sand, Sand</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>95'-100'</td>
<td>Blue Sand, Sand</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>100'-110'</td>
<td>Blue Sand, Sand</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>110'-122'</td>
<td>Blue Sand, Sand</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>122'-133'</td>
<td>Sand, Sand</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 100 feet. Shut-in Pressure for Flowing Well: Not Applicable
Pumping Water Level: 130 feet at 10 gal. per minute. Discharge in gal. per min. of flowing well: Not Applicable

How Tested: Drilled Length of Test: 2 feet

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) Not Applicable

Driller’s License Number: 
Driller’s Signature: 

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