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<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>3</td>
<td>HEIDRICK, A.C.</td>
<td>WATER WELL</td>
<td>81729</td>
<td></td>
</tr>
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<td>4</td>
<td>HEIDRICK, A.C.</td>
<td>WATER WELL</td>
<td>81744</td>
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<td>13</td>
<td>GACKLE, ETHEL</td>
<td>GW-4</td>
<td>87234</td>
<td></td>
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<tr>
<td>14</td>
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<tr>
<td>19</td>
<td>NORTHERN PACIFIC RAILWAY, S</td>
<td>GW-4</td>
<td>85235</td>
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<td>20</td>
<td>SCHLENKER, DAVID</td>
<td>GW-2</td>
<td>83366</td>
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<tr>
<td>22</td>
<td>SCHLENKER, DAVID</td>
<td>GW-4</td>
<td>83368</td>
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<tr>
<td>26</td>
<td>BUREAU OF LAND MANAGEMENT</td>
<td>GW-4</td>
<td>99311</td>
<td></td>
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<td>56354</td>
<td></td>
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<tr>
<td>34</td>
<td>BUREAU OF LAND MANAGEMENT</td>
<td>APRIL 15, 1977 WATER WELL</td>
<td>99365</td>
<td>ONLY ONE RECORDED</td>
</tr>
<tr>
<td>34</td>
<td>SCHLENKER, DAVID</td>
<td>APRIL 15, 1977 WATER WELL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>SCHLENKER, DAVID</td>
<td>WATER WELL</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
OWNER: Mr. A. D. Hedstrom
Address: Terry, Montana

Driller: Johnson Water Well Service
Address: Terry, Montana

Date Started: Sept 1, 1958
Date Completed: Sept 4, 1958

Location: Sec, 5 T., 16 R., 4S N.

S

<table>
<thead>
<tr>
<th>Type of well:</th>
<th>Domestic</th>
<th>Municipal</th>
<th>Stock</th>
<th>Irrigation</th>
<th>Industrial</th>
<th>Drainage</th>
<th>Other</th>
</tr>
</thead>
</table>

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

Casing: 0 ft. to 99 ft. Type: 3/4 pipe Size: 3 in.

Casing: 99 ft. to 34 ft. Type: 3/4 pipe Size: 3 in.

Casing: 34 ft. to 0 ft. Type: 3/4 pipe Size: 3 in.

Perforated or Screened: 0 ft. to 99 ft. 99 ft. to 34 ft.

Type of screen or perforations: Holes

Static Water level, for non-flowing well: 32 ft.

Shut-in pressure, for flowing well: 15.02 in. Hg. on: Sept 4, 1958

Pumping water level: 54 feet at 25 gal. per min.

How tested: Bailer

Length of test: 1 hour

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
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</thead>
<tbody>
<tr>
<td>0</td>
<td>Top soil</td>
</tr>
<tr>
<td>1</td>
<td>Yellow loam</td>
</tr>
<tr>
<td>16</td>
<td>Blue shale</td>
</tr>
<tr>
<td>32</td>
<td>Sandy grey shale</td>
</tr>
<tr>
<td>78</td>
<td>Water and sand</td>
</tr>
<tr>
<td>80</td>
<td>Coal</td>
</tr>
<tr>
<td>94</td>
<td>Gray shale</td>
</tr>
</tbody>
</table>
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

STATE ENGINEER

Owner: A.C. Bedawren
Driller: Henry L. Johnson

Date Started: June 12, 1960
Date Completed: June 18, 1960

Location: Sec. 6, T. 16, R. 45, 1/4 sec. NW

Type of well: Drilled
Equipment used: Rotary

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

Casing: 0 ft. to 29 ft. Type: 20 lb. per ft. Size: 7H 0B
Casing: 29 ft. to 165 ft. Type: 9A 4D
Casing: 165 ft. to 166 ft. Type: Size: [ ]

Perforated or Screened: Ft. 147 to Ft. 160

Type of screen or perforations: Hole

Static Water level, for non-flowing well: 160 feet.

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

Pumping water level: 145 feet at 10 gal. per min.

How tested: [ ]

Length of test: 1 hr.

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

(over)
<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>1</td>
<td></td>
<td>Top Soil</td>
</tr>
<tr>
<td>1</td>
<td>26</td>
<td></td>
<td>Yellow Lava</td>
</tr>
<tr>
<td>26</td>
<td>27</td>
<td></td>
<td>Quick Sand</td>
</tr>
<tr>
<td>27</td>
<td>60</td>
<td></td>
<td>Yellow and Brown Shale</td>
</tr>
<tr>
<td>60</td>
<td>117</td>
<td></td>
<td>Blue Shale</td>
</tr>
<tr>
<td>117</td>
<td>132</td>
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<td>150</td>
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<tr>
<td>150</td>
<td>158</td>
<td></td>
<td>Sandstone</td>
</tr>
<tr>
<td>158</td>
<td>165</td>
<td></td>
<td>Gray Shale</td>
</tr>
</tbody>
</table>
STATE OF MONTANA

DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

I, (Name of Appropriator), of (Address), (Town),

County of, State of Montana,

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

1. Stock Watering

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.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

(Name of Appropriator) (Address) — (Town)

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

1960 — use continuous

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

10 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

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

Commenced 1960 — Completed 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

12 ft. dia. — 113 ft. deep

10. The estimated amount of groundwater withdrawn each year

648,000 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

Date 11/16/1965

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

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

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. Ervin A. Scheck of Broadwater
   (State of Appropriator) (Address) (Town)

County of Broadwater, 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
   (Plot Map)

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
   1945 - 1950 - Continuous

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

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
   (Description)

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
   Commenced and completed 1905

8. The depth of water table
   90 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
   (Well Specifications)

10. The estimated amount of groundwater withdrawn each year
    325,000 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
    (Additional Information)

Signature of Owner
Date 16-3-1965

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

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

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

DECLARATION OF VESTED GROUNDWATER RIGHTS

(Under Chapter 237, Montana Session Laws, 1961)

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

   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:
   (1962 - 1963)

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

5. If used for irrigation, give the acres 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:
   Commenced and completed 1963

8. The depth of water table:
   110 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:
   Drilled - Tapping - 315 ft. deep

10. The estimated amount of groundwater withdrawn each year:
    54,000 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:

Signature of Owner:

Date: Dec. 16, 1965

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

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

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.
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)

STATE ENGINEER

Northern Pacific Railway Company

County of Ramsey
State of Minnesota

I (Name of Appropriator) (Address) (City)

I 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: Furnishing water for livestock.

2. The date or approximate date of earliest beneficial use; and how continuous the use has been: Continuous since 1949.

3. The amount of groundwater claimed: 5 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 date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1949.

7. The depth of water table: 50 feet.

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

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

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: David Schlecker Address: Brockway, Montana
Driller: Ira C. Bond Address: Terry, Montana

Date of Notice of Appropriation of Groundwater
Date well started: May 19, 1962 Date Completed: July 21, 1962

Type of well: Drilled Equipment Used: Cable
(drill, driven, bored or churn, drill, rotary or drilled)

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

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

<table>
<thead>
<tr>
<th>Size of Noted Hole</th>
<th>Rise and Weight of Casing</th>
<th>Prom (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
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</thead>
<tbody>
<tr>
<td>5 1/2” Ladies 43” od</td>
<td>surface</td>
<td>104’</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>70”</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>98’</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well... 60’ feet
Static Water Level for Flowing Well
Pumping Water Level... feet at 10 gal. per minute
Discharge in G.P.A. per min. at flowing well
How Tested: Cased
Length of Test: 1 hour
Remarks: Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not a well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation)

quick sand from 28’ to 33’ cased off with 7’ casing.

Driller’s License Number
Ira C. Bond

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

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

1. Name of Appropriator: David Schirr
   Address: Broadway
   County of: Missoula
   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:
   Irrigation

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

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

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:
   5 acres
   John Smith

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal:
   (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: May 1950

8. The depth of water table: 30 feet

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

10. The estimated amount of groundwater withdrawn each year: 5000 gals

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:

   Signature of Owner: David Schirr
   Date: Dec 31, 1963

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

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

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

Declaration of Vested Groundwater Rights
(under Chapter 123, Montana Session Laws, 1961)

Bureau of Land Management, of Box 960, Miles City

County of Custer State of Montana

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: ____________
   Livestock water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: ____________
   1944 - continuous

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

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

6. Indicate point of appropriation and place of use, if possible: ____________

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

8. The depth of water table: ____________
   Unknown

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

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

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: ____________

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.

3689
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. David Schlesier of Broadway
   (Name of Appropriator) (Address) (Town)

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

   W

   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.

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 gph - 70 ft
   - 7 gph - 70 ft

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.

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.
   - No. 1 - Drilled well, Tim. casing, 100 ft.
   - No. 2 - Drilled well, Tim. casing, 40 ft.
   - No. 3 - Drilled well, Tim. casing, 70 ft.

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: David Schlesier
Date:

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

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

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

<table>
<thead>
<tr>
<th>Bureau of Land Management</th>
<th>Name of Appropriator</th>
<th>Address</th>
<th>Town</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

County of: [County Name]  
State of: Montana

I 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: Livestock water
3. Date or approximate date of earliest beneficial use, and how continuous the use has been: 1954 - continuous
4. The amount of groundwater claimed (in miner's inches or gallons per minute): 3 gal/min
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: Windmill - 8 IRRIG. of 34
7. Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.
8. The depth of water table: 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: Drilled well - 150 ft deep, 8 ft. lower & 25 ft. heads
10. The estimated amount of groundwater withdrawn each year: 1,000,000 gal
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:

District Manager: [Signature]

Date: [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.
WATER WELL LOG

Owner: David Schlinker  Address: Watkins, Montana
Driller: Ira C. Ro nd  Address: Terry, Montana

Drilled: April 10, 1956  Date Completed: April 12, 1956
Location: Sec. 34  T. 16  R. 45  S.W. 1/4

Casing: 47 ft. to 48 ft.  Type: steel  Size: 6"
Casing: 48 ft. to 144 ft.  Type: steel  Size: 4"
Casing: 144 ft. to 220 ft.  Type: steel  Size: 4"
Perforated or Screened: Ft. 107 to 144
Type of screen or perforations: burned holes 5/16"

Static Water level, for non-flowing well: 10 feet.
Shut-in pressure, for flowing well: 5 lb./sq. in. on: (date) 25
Pumping water level: 20 feet at: 25 gal. per min.
How tested: bailed 2 hours
Length of test: 2 hours

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>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 – 42</td>
<td>yellow clay</td>
</tr>
<tr>
<td>42 – 46</td>
<td>gravel</td>
</tr>
<tr>
<td>46 – 72</td>
<td>gumbo</td>
</tr>
<tr>
<td>72 – 82</td>
<td>blue clay</td>
</tr>
<tr>
<td>82 – 95</td>
<td>water sand 2 gal per min</td>
</tr>
<tr>
<td>95 – 97</td>
<td>gumbo</td>
</tr>
<tr>
<td>97 – 105</td>
<td>sandy clay</td>
</tr>
<tr>
<td>105 – 109</td>
<td>gumbo</td>
</tr>
<tr>
<td>109 – 112</td>
<td>water sand until 25 gal per min</td>
</tr>
<tr>
<td>112 – 114</td>
<td>coal, with water gush</td>
</tr>
</tbody>
</table>
### WATER WELL LOG

<table>
<thead>
<tr>
<th>Owner</th>
<th>Address</th>
<th>Driller</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>David Schlinker</td>
<td>Watkins, Montana</td>
<td>Ira C. Bond</td>
<td>Terry, Montana</td>
</tr>
</tbody>
</table>

**Date Started**: April 12, 1957  
**Date Completed**: April 13, 1957

**Location**: Sec. 34 T. 16 R. 45 1/4 sec. SE1/4SE1

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Equipment used</th>
<th>Cable tool</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drilled</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**Casing**:
- **Surface ft. to**: 48 ft.  
- **Type**: steel  
- **Size**: 7"

**Casing**:
- **Surface ft. to**: 144 ft.  
- **Type**: steel  
- **Size**: 4"

**Casing**:
- **Surface ft. to**: 209 ft.  
- **Type**: steel  
- **Size**: 

**Perforated or Screened**: [ ]  
- **Ft. to Ft.**: 109 to 122 ft.

**Type of screen or perforations**: 3/8" holes by torch

**Static Water level, for non-flowing well**: 100 feet

**Shut-in pressure, for flowing well**: 115 lb./sq. in. on: (date)

**Pumping water level**: 25 feet at 25 gal. per min.

**How tested**: bailer

**Length of test**: one hour

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

---

(over)
<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>42</td>
</tr>
<tr>
<td>42</td>
<td>46</td>
</tr>
<tr>
<td>46</td>
<td>72</td>
</tr>
<tr>
<td>72</td>
<td>82</td>
</tr>
<tr>
<td>82</td>
<td>95</td>
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<tr>
<td>95</td>
<td>97</td>
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<td>97</td>
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<td>106</td>
<td>109</td>
</tr>
<tr>
<td>109</td>
<td>122</td>
</tr>
<tr>
<td>122</td>
<td>144</td>
</tr>
</tbody>
</table>

Log of Well

STATE ENGINEER

RECEIVED
SEP 4 1957
<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>REYNOLDS, PAT</td>
<td>WATER WELL</td>
<td>743343</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>REYNOLDS, PAT</td>
<td>GW-4</td>
<td>854547</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>MURPHY, PHILLIP</td>
<td>GW-4</td>
<td>854541</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>MURPHY, PHILLIP</td>
<td>GW-4</td>
<td>854547</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>WELAND, FRANK H.</td>
<td>GW-4</td>
<td>854543</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>WELAND, FRANK H.</td>
<td>GW-4</td>
<td>854548</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>REYNOLDS, PAT</td>
<td>GW-4</td>
<td>95445</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>HAHN, MIKE</td>
<td>WATER WELL</td>
<td>74345</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>WELLODGE, BILL</td>
<td>GW-2</td>
<td>94051</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>ALLEN, WILLIAM</td>
<td>GW-2</td>
<td>89248</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>CREAT, OPER</td>
<td>GW-3</td>
<td>40625</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>ALLEN, WILLIAM H.</td>
<td>WATER WELL</td>
<td>74302</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>HAHN, MIKE</td>
<td>WATER WELL</td>
<td>2799</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>WELAND, HANS C.</td>
<td>GW-4</td>
<td>82611</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>NORTHERN PACIFIC RAILWAY CO.</td>
<td>GW-4</td>
<td>82654</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>WELAND, FRANK H.</td>
<td>GW-4</td>
<td>854543</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>MURPHY, PHILLIP</td>
<td>GW-4</td>
<td>854545</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>GIGELJEK, GOTTSEED</td>
<td>WATER WELL</td>
<td>79257</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>BUREAU OF LAND MANAGEMENT</td>
<td>GW-1</td>
<td>89278</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>WELLODGE, BILL</td>
<td>GW-2</td>
<td>92304</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>HAHN, MIKE</td>
<td>GW-2</td>
<td>85021</td>
<td></td>
</tr>
<tr>
<td>Owner: J. L. Reynolds</td>
<td>Address: Terry, Montana</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------</td>
<td>--------------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Driller: Ira C. Long</td>
<td>Address: Terry, Montana</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Date Started: May 11, 1961</td>
<td>Date Completed: May 25, 1961</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Location: Sec. 1, T. 16, R. 47, 1/4 sec. 8 of th. 8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Equipment used</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Dug, driven, bored, or drilled)</td>
<td>Cable tool</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Casing:</th>
<th>0 ft. to 155 ft.</th>
<th>Type: Stns: 3</th>
<th>Size: 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing:</td>
<td>ft. to ft.</td>
<td>Type: Size</td>
<td></td>
</tr>
<tr>
<td>Casing:</td>
<td>ft. to ft.</td>
<td>Type: Size</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Perforated or Screened:</th>
<th>0 ft. to 332 ft.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Type of screen or perforations:</th>
<th>Elite cut, three-in-apert, with trench</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Static Water level, for non-flowing well:</th>
<th>100 to 120 feet.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shut-in pressure, for flowing well:</td>
<td>1 lb./sq. in. on: (date)</td>
</tr>
<tr>
<td>Pumping water level:</td>
<td>130 feet at 4 gal. per min.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Length of test:</th>
<th>4 hours</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Remarks:</th>
<th>(over)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depth, feet</td>
<td>Description of Material Drilled</td>
</tr>
<tr>
<td>------------</td>
<td>---------------------------------</td>
</tr>
<tr>
<td>From</td>
<td>To</td>
</tr>
<tr>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>16</td>
</tr>
<tr>
<td>16</td>
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<td>125</td>
</tr>
<tr>
<td>125</td>
<td>132</td>
</tr>
<tr>
<td>132</td>
<td>155</td>
</tr>
</tbody>
</table>

- Topsoil
- Yellow clay
- White clay
- Sandstone
- Yellow clay
- Sandstone
- Gumbo
- Sandstone
- Water sand
- Coal
- Gumbo
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. Name of Appropriator: Pat Reynolds
   Address: Terry
   Town: (Address)
   State of Montana
   County of Prairie

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: 1957-present (continuous)

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: Windmill

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 16, 1957

8. The depth of water table: 150 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: 5 inch casing

10. The estimated amount of groundwater withdrawn each year: 2,692,800 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:

Signature of Owner: __________________________
Date: __________________________

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

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

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

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

1. (Name of Appropriator) (Address) (Town) (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: [Description]

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

4. The amount of groundwater claimed (in millions of cubic feet or gallons per minute): [Amount]

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: [Acreage]

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

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

8. The depth of water table: [Depth]

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

10. The estimated amount of groundwater withdrawn each year: [Amount]

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: [Information]

Signature of Owner: [Signature]

Date: [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)

**County of:**

**Address:**

**Town:**

**State of Montana**

**Declaration of Vested Groundwater Rights**

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

<table>
<thead>
<tr>
<th>No.</th>
<th>Date or approximate date of earliest beneficial use and how continuous the use has been</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>01-01-1962, continuous</td>
</tr>
<tr>
<td>2</td>
<td>01-01-1962, continuous</td>
</tr>
<tr>
<td>3</td>
<td>01-01-1962, continuous</td>
</tr>
</tbody>
</table>

4. The amount of groundwater claimed (in million's inches or gallons per minute) |
   - No. 1 - 10 million inches per minute |
   - No. 2 - 15 million inches per minute |
   - No. 3 - 20 million inches per minute |

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

6. The means of withdrawing each water from the ground and the location of each well or other means of withdrawal.
   - No. 1 - Plaintiff's County well
   - No. 2 - Plaintiff's County well
   - No. 3 - Plaintiff's County well

7. The date of commencement and completion of the construction or other works for withdrawal of groundwater, No. 1 - commenced 1-1-1962, completed 1-1-1962 |
   - No. 2 - 1-1-1962, completed 1-1-1962 |
   - No. 3 - 1-1-1962, completed 1-1-1962 |

8. The depth of water table, No. 1 - 60 feet, No. 2 - 50 feet, No. 3 - 70 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.
   - No. 1 - 1 inch casing, 8 inch line |
   - No. 2 - 6 inch line |
   - No. 3 - 8 inch line |

10. The estimated amount of groundwater withdrawn each year.
    - No. 1 - 1,076,081 gallons |
    - No. 2 - 1,175,080 gallons |
    - No. 3 - 2,341,080 gallons |

11. The logs of formations encountered in the drilling of each well if available.
    - No. 1 - Not available |
    - No. 2 - Not available |
    - No. 3 - 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.

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 Appropirator.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

To: [Name of Appropriator], of [Address]

(Names of County) [County]
(State of Montana)

I, [Name of Appropriator], of [Address], 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: [Description]

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

   - [Beneficial Use Information]

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

   - [Amount]

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 and Description]

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

   - [Means of Withdrawal]

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

   - [Construction Dates]

8. The depth of water table:

   - [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:

   - [Well Specifications]

10. The estimated amount of groundwater withdrawn each year:

    - [Withdrawal Amounts]

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

    - [Formation 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:

    - [Other Information]

Signature of Owner: [Signature] Date: [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)

1. (Name of Appropriator),
   County of: [County]
   State of: [State]
   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1963, as follows:

2. The beneficial use on which the claim is based: [Not Specified]

3. Date or approximate date of earliest beneficial use, and how continuous the use has been: 1955 - Continuous

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

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: [Not Specified]

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Commenced: __________; 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: Drilled - Undecking - 50 feet

10. The estimated amount of groundwater withdrawn each year: 3,678,000 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 Specified]

Signature of Owner: [Signature]
Date: Dec 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
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Fat Reynolds, of Terry
   (Name of Appropriator) (Address) (Town)

   County of Prairie, 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: 1957—present

   4. The amount of groundwater claimed (in miner's inches or gallons per minute): 14 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: Windmill

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: May 29, 1957

   8. The depth of water table: 46 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

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

   Signature of Owner

   Date

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
# MONTANA BUREAU OF MINES AND GEOLOGY

## WATER WELL LOG

**Owner:** Mike Hawk  
**Address:** Terry, Montana

**Driller:** Fred Bond  
**Address:** Terry, Montana

**Date Started:** Dec 20, 1959  
**Date Completed:** Dec 22, 1959

<table>
<thead>
<tr>
<th>Location: Sec.</th>
<th>T</th>
<th>R</th>
<th>Fraction</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>26</td>
<td>47</td>
<td>1/4</td>
</tr>
</tbody>
</table>

**Type of well:** Drilled  
**Equipment used:** Cable tool

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

**Casing:**  
- Type: Stock
- Size: 4 inch

**Perforated or Screened:**  
- Type:  
- Size:

**Type of screen or perforations:**  
- 5/16 holes cut 3 in. apart with cutting torch

**Static Water level, for non-flowing well:**  
- At 20 feet

**Shut-in pressure, for flowing well:**  
- At 48 feet at 6 lb/sq. in. on: (date)

**Pumping water level:**  
- At 48 feet at 6 gal. per min.

**How tested:** Boiled

**Length of test:** One hour

**Remarks:** (Cravel packing, cementing, packers, type of shut-off, depth of shut-off)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>From</th>
<th>To</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>06</td>
<td>Yelllow Clay</td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>34</td>
<td>Sandstone</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>34</td>
<td>Coal 5 gpm</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>38</td>
<td>Water sand 3 gpm</td>
<td></td>
</tr>
<tr>
<td>38</td>
<td>40</td>
<td>Sandy clay</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>52</td>
<td>Gumbo</td>
<td></td>
</tr>
</tbody>
</table>
**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.

<table>
<thead>
<tr>
<th>Owner</th>
<th>Saul Willardson</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>Terry, Montana</td>
</tr>
<tr>
<td>Date well started</td>
<td>9/6/72</td>
</tr>
<tr>
<td>Top of Ground</td>
<td>7 ft.</td>
</tr>
<tr>
<td>Water Use</td>
<td>Domestic</td>
</tr>
<tr>
<td>Equipment used</td>
<td>Table Tool</td>
</tr>
<tr>
<td>Well developed by</td>
<td>Bore Driller</td>
</tr>
</tbody>
</table>

**ESTIMATED ANNUAL WITHDRAWAL**

<table>
<thead>
<tr>
<th>Site of Well</th>
<th>Static Water Level</th>
<th>Pumping Water Level</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>W, F, S, E</td>
<td>30 ft.</td>
<td>90 ft.</td>
<td>Gravel-packed</td>
</tr>
</tbody>
</table>

**Driller's Signature**

**Driller's Address**

**LICENSE NO.** 37

**COUNTY** Prairie

**DRILLER'S LOG**

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

Driller: E. C. Bond & Sons
Address: Terry, Montana

Date of Notice of Appropriation of Groundwater

Date well started: 9/26/67
Date Completed: 9/31/67

Type of well: Drilled
Equipment Used: Cable tool

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

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

<table>
<thead>
<tr>
<th>Size of Well (in)</th>
<th>Size and Weight of Casing</th>
<th>From (ft)</th>
<th>To (ft)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>70ft</td>
<td>0</td>
<td>32</td>
<td>N/A</td>
</tr>
<tr>
<td>5/8</td>
<td>4½&quot; od</td>
<td>28</td>
<td>64</td>
<td>3/16</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 34 feet.
Shut-in Pressure for Flowing Well: N/A
Pumping Water Level: 54 feet at 5 gal. per minute.
Discharge in gal. per min. of flowing well: N/A
How Tested: Bailed
Length of Test: 2 hrs.

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)

Cased off quicksand with 70 ft casing

Show exact depth of bottom.

Driller's License Number: N/A
Driller's Signature: N/A

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.

7/3/41
Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 237, Montana Session Laws, 1961)

Owner: Lyle Grist  
Address: Broadway, Montana

Driller: T. D. Bond & Sons  
Address: Terry, Montana

Date of Notice of Appropriation of Groundwater: 11/6/68
Date Completed: 11/9/68

Type of well drilled: Equipment Used: cal tool (drill, drive, or other)

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

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

<table>
<thead>
<tr>
<th>Depth of Drilled Hole</th>
<th>Rise and Weight of Casing</th>
<th>Pres (Foot)</th>
<th>To (Foot)</th>
<th>PREPARATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 3/4</td>
<td>4 1/2 OD</td>
<td>0</td>
<td>164</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 130 feet.
Shut-in Pressure for Flowing Well: 300 feet at 4 gpm.
Pumping Water Level: 144 feet per min of flowing well.
Discharge in gal. per min. of flowing well:
How Tested: Bailed
Length of Test: 2 hrs.
Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation)

Gravel packed

Driller's License Number
[Signature]

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

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

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

**Owner:** William H. Allen  
**Address:** Brookway, Montana

**Driller:** Ir. C. Bond  
**Address:** Terry, Montana

**Date Started:** June 1958  
**Date Completed:** June 1958

**Location:** Sec. 20 T. 16 R. 47 1/4 W. 2 Montana

---

<table>
<thead>
<tr>
<th>Drilled</th>
<th>Cable</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Type of well:**  
**Equipment used:**

- Domestic  
- Municipal  
- Stock  
- Irrigation  
- Industrial  
- Drainage  
- Other

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

---

**Casing:**
- Surface: 160 ft. to 160 ft. Type: Steel  
- Size: 4"  
- Additional lengths and types if applicable:

**Perforated or Screened:**
- Ft. 120 to Ft. 156  
- Ft. to Ft.  
- Type:  
- Additional lengths and types if applicable:

**Type of screen or perforation:**
- Burned holes

**Static Water level, for non-flowing well:** Raises to 30 ft from the top feet.

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

**Pumping water level:** feet at 25 gal. per min.

**How tested:** Bailed for two hours

**Length of test:**

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

---

(over)
<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>11</td>
<td></td>
<td>top soil</td>
</tr>
<tr>
<td>11</td>
<td>37</td>
<td>56</td>
<td>yellow clay</td>
</tr>
<tr>
<td>56</td>
<td>96</td>
<td>98</td>
<td>gumbo</td>
</tr>
<tr>
<td>98</td>
<td>103</td>
<td></td>
<td>rock</td>
</tr>
<tr>
<td>103</td>
<td>106</td>
<td></td>
<td>black coal</td>
</tr>
<tr>
<td>106</td>
<td>109</td>
<td></td>
<td>sandy, water show</td>
</tr>
<tr>
<td>109</td>
<td>111</td>
<td></td>
<td>rock</td>
</tr>
<tr>
<td>111</td>
<td>148</td>
<td></td>
<td>gumbo</td>
</tr>
<tr>
<td>148</td>
<td>158</td>
<td></td>
<td>water-sand</td>
</tr>
<tr>
<td>158</td>
<td>160</td>
<td></td>
<td>gumbo</td>
</tr>
</tbody>
</table>
T-16  R-47
County: Prairie

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

STATE ENGINEER

Owner: Mike Hauk
Address: Terry, Montana

Driller: Ted C. Bond
Address: Terry, Montana

Date Started: Dec. 11, 1961
Date Completed: Dec. 13, 1961

Location: Sec. 21  T. 16  R. 47  1/4 sec. 24 of the 6th

<table>
<thead>
<tr>
<th>Type of Well</th>
<th>Drilled</th>
<th>Equipment Used</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Cable Tool</td>
</tr>
</tbody>
</table>

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

Casing: 0 ft. to 20 ft. Type: Steel  Size: 6-inch
Casing: 16 ft. to 45 ft. Type: Steel  Size: 4-in.
Casing: [ ] ft. to [ ] ft. Type: [ ]  Size: [ ]

Perforated or Screened: From 30 ft. to 40 ft.
Type of screen or perforations: 5/16-in. holes out three-in. apart with torch
Static Water level, for non-flowing well: 8 feet down to 36 feet
Shut-in pressure, for flowing well: lb./sq. in. on: (date)
Pumping water level: 40 feet at 6 gal. per min.

How tested: [ ] with bailer

Length of test: [ ] for one hour

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>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>To</td>
</tr>
<tr>
<td>0</td>
<td>12</td>
</tr>
<tr>
<td>12</td>
<td>13</td>
</tr>
<tr>
<td>13</td>
<td>17</td>
</tr>
<tr>
<td>17</td>
<td>30</td>
</tr>
<tr>
<td>30</td>
<td>40</td>
</tr>
<tr>
<td>40</td>
<td>45</td>
</tr>
</tbody>
</table>
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. **Harry C. Heland**, 800 Market Street, Glendive

   (Name of Appropriator)  
   (Address)  

   County of **B tastes**  
   State of **Montana**

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

   ![Grid Diagram](image)

   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:  

   **Stick well**

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

   **Drilled the year of 1947**

   **Used off and on for watering livestock**

   4. The amount of groundwater claimed, (in miner's inches or gallons per minute) at least 20 gals. per minute.

   **Not applicable**

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

   **Not applicable**

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

   **From ground with gathering pumps**

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

   **Completed the spring of 1947**

   8. The depth of water table:  

   **50 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:

   **Not applicable**

   10. The estimated amount of groundwater withdrawn each year:  

   **Not applicable**

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

   **Not available**

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

   **Not applicable**

   Signature of Owner: **Harry C. Heland**  
   Date: **Dec 9, 1963**

Three copies to be filled 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 retained.

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 7, Montana Session Laws, 1961)

STATE ENGINEER

1. Northern Pacific Railway Company, St. Paul
   (Name of Appropriator) (Address)
   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: Furnishing water for livestock.

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

   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. 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: Well, drilled in 1960.

   8. The depth of water table: 50 feet.

   9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: 50 feet deep; 6-inch casing.

   10. The estimated amount of groundwater withdrawn each year: None.

   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: No other information available.

Northern Pacific Railway Company
Signature of Owner: By (Owner's Signature)
Dist. Supervisor, Graz. & 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.