<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>11</td>
<td>BUREAU OF LAND MANAGEMENT</td>
<td>GW-2</td>
<td>94302</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>BUREAU OF LAND MANAGEMENT</td>
<td>GW-4</td>
<td>84304</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>McMULLEN BROTHERS</td>
<td>GW-2</td>
<td>92351</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>BUREAU OF LAND MANAGEMENT</td>
<td>GW-2, 92351</td>
<td>92352</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>BUREAU OF LAND MANAGEMENT</td>
<td>GW-4</td>
<td>94307</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>McMULLEN BROTHERS</td>
<td>GW-2</td>
<td>99324</td>
<td></td>
</tr>
</tbody>
</table>
RECEIVED

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.

Appel Well

Owner: Bureau of Land Management
Address: U.S. City, Montana
File: 94302
Date well started: 9/28/72
Type of well: Drilled
Equipment used: Air 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).

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

Estimate annual withdrawal

<table>
<thead>
<tr>
<th>Depth of Bottom</th>
<th>Weight of Casing</th>
<th>From (Ft)</th>
<th>To (Ft)</th>
<th>Kind of Pipe</th>
<th>From (Ft)</th>
<th>To (Ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 7/8&quot;</td>
<td>6&quot; 50</td>
<td>+1</td>
<td>177</td>
<td>1/8 X 18&quot; 6&quot;</td>
<td>125</td>
<td>165</td>
</tr>
</tbody>
</table>

Static water level ... | 79 | ft. |
Pumping water level ... | 105 | ft. |
Power pump HP ... | 40 |
Remarks: (Gravel packing, cementing, packers, type of shots) | | |

Driller's Signature: Jose Zam Johnson
Driller's Address: JOHNSON DRILLING CO., TERRY, MONTANA
LICENSE NO: 154
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

County of __________________________ State of __________________________

Bureau of Land Management, Box 960, Miles City, Montana

(Name of Appropriator) __________________________ (Address) __________________________ (Town)

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

NE 1/4 SE 1/4 Sec. 12, T 13N, R 42 E2

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 __________________________ 1943 = 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 __________________________

Windidi - NE 1/4 W 1/4 of Sec. 12

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

Drilled well = 1871; deep, 27'; tower & 81' head

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater __________________________ 1871

8. The depth of water table __________________________ 1871

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 = 1871; deep, 27'; tower & 81' head

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

District Manager __________________________

Date __________________________

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.
Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 237, Montana Session Laws, 1961)

Owner: M. Mulholland
Address: Brockway, Mont.

Date of Notice of Appropriation of Groundwater:
Date well started:
Date well completed:

Type of well: Drilled
Equipment used: (drill, driven, bored or drilled)

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

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

<table>
<thead>
<tr>
<th>Size of Drilled Hole (in.)</th>
<th>Size of Water of Casing  (in.)</th>
<th>From (in.)</th>
<th>To (in.)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 1/4</td>
<td>H 1 3/4</td>
<td>5 5/8</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 33 feet

Shut-in Pressure for Flowing Well:
Pumping Water Level: 39 feet at 4.5 gal. per minute.
Discharge in gal. per min. of flowing well:

How Tested: Baluster Length of Test:

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

Well is gravel packed from 5' to bottom:

Driller's License Number
Driller's Signature

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology and quadruplicate for the Appropriator.
Notice of Completion of Groundwater Appropriation by Means of Well Developed After January 1, 1962

(Under Chapter 237 Montana Session Laws, 1961, as amended)

Date of Notice of appropriation of groundwater: 5/10/78

Date well started: 5/10/78 Date completed: 5/21/78

Type of well Drilled: Air Rotary

Equipment used: Air Rotary

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 well, 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</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 49 Lt. Brn. Sandy Clay</td>
<td></td>
<td></td>
</tr>
<tr>
<td>49 - 99 Clay &amp; Coal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>119 - 166 Gray Sandstone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>166 - 170 Lt. Brn. Sandstone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>170 - 240 Gray Sandstone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>240 - 390 Gray Clay</td>
<td></td>
<td></td>
</tr>
<tr>
<td>390 - 315 Brn. Sand</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

T.D. 317

Static Water Level for non-flowing well: 245 feet

Shut-in Pressure for Flowing Well:

Pumping Water Level: 238 feet at 12 gal. per minute.

Discharge in gal. per min. of flowing well:

How Tested: Ball & Air Lift

Length of Test: 10 hrs.

Remarks: (Gravel packing, cementing, packers, type of shutoff). Well Gravel Packed, Pump & Pump Pipe Installed & Pumping 75 GPM

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).

Stock Watering

Driller's License Number

Signer's Signature

Page 22

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, times copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.
## Notice of Completion of Groundwater Appropriation by Means of Well

**DEVELOPED AFTER JANUARY 1, 1968**

(Under Chapter 237 Montana Session Laws, 1961, as amended)

### STATE OF MONTANA

**ADMINISTRATOR OF GROUNDWATER CODE**

**STATE WATER CONSERVATION BOARD**

---

**Tripletate**

**Log**

**Comstock Well**

**Top of Ground**

(Elev. above sea level: ____________ )

<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>40 ft. Brn. Sandy Clay</td>
</tr>
<tr>
<td>40</td>
<td>50 ft. Clay &amp; Coal</td>
</tr>
<tr>
<td>50</td>
<td>90 ft. Gray Clay</td>
</tr>
<tr>
<td>90</td>
<td>110 ft. Brn. Clay &amp; Coal</td>
</tr>
<tr>
<td>110</td>
<td>160 ft. Gray Sopastone</td>
</tr>
<tr>
<td>160</td>
<td>170 ft. Brn. Sandstone</td>
</tr>
<tr>
<td>170</td>
<td>240 ft. Gray Sopastone</td>
</tr>
<tr>
<td>240</td>
<td>260 ft. Gray Clay</td>
</tr>
<tr>
<td>260</td>
<td>315 ft. Brn. Sand</td>
</tr>
</tbody>
</table>

**T.D. 317**

---

**Skid No. 22. T.18N. R.45W.**

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

---

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

265 feet.

**Shut-In Pressure for flowing well**

225 feet.

**Pumping Water Level**

12 gallons per minute.

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

**How Tested**

**METER & AIR LIFT**

**Length of Test**

80 MIN.

**Remarks:** (Gravel packing, cementing, packers, type of shutoff, well gravel, Pump & Pump Pipe)

**Installed & pumping 74 GPM**

---

**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, these 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.**
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights
(Under Chapter 337, Montana Session Laws, 1961)

I, [Name of Appropriator], (Address) (Town) of Box 960, Miles City, State of Montana, have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

1. The beneficial use on which the claim is based
   - Livestock
   - Farm
   - Industry
   - Other

2. Date or approximate date of earliest beneficial use; and how continuous the use has been
   - 1943

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

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

5. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
   - Drilled well, 148 ft deep

6. The depth of water table
   - 148 ft

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

8. The depth of water table

9. The type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
   - Drilled well, 148 ft deep

10. The estimated amount of groundwater withdrawn each year
   - 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

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.

[Signature]
District Manager
Date: 1-2-63

3665
Notice of Completion of Groundwater Appropriation by Means of Well

Date of Notice of Appropriation of Groundwater: November 1, 1967.

Date well started: November 1, 1967.

Date Completed: November 3, 1967.

Owner: McMullin Bros.

Brockway, Mont.

Driller: Joe Johnson, Dug Terry, Mont.

Type of well: Drilled.

Equipment Used: Drilling rig (drill, rotary or driled).

Water Use: Domestic, Municipal, Industrial, Drainage, Other, Irrigation.

Static Water Level for non-flowing Well: 5.5 feet.

Shut-in Pressure for Flowing Well.

Discharge in gal. per min. of flowing well.

How Tested: Bailer

Length of Test: 2.5 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).

Well is gravel packed with backfill gravel.

Driller’s License Number: Joes lawn Johnson

Driller’s Signature:
<table>
<thead>
<tr>
<th>Ret.</th>
<th>23</th>
<th>24</th>
<th>25</th>
<th>26</th>
<th>27</th>
<th>28</th>
<th>29</th>
<th>30</th>
<th>31</th>
<th>32</th>
<th>33</th>
<th>34</th>
<th>35</th>
<th>36</th>
<th>37</th>
<th>38</th>
<th>39</th>
<th>40</th>
<th>41</th>
<th>42</th>
<th>43</th>
<th>44</th>
<th>45</th>
<th>46</th>
<th>47</th>
<th>48</th>
<th>49</th>
<th>50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of Form</td>
<td>Type 1</td>
<td>Type 2</td>
<td>Type 3</td>
<td>Type 4</td>
<td>Type 5</td>
<td>Type 6</td>
<td>Type 7</td>
<td>Type 8</td>
<td>Type 9</td>
<td>Type 10</td>
<td>Type 11</td>
<td>Type 12</td>
<td>Type 13</td>
<td>Type 14</td>
<td>Type 15</td>
<td>Type 16</td>
<td>Type 17</td>
<td>Type 18</td>
<td>Type 19</td>
<td>Type 20</td>
<td>Type 21</td>
<td>Type 22</td>
<td>Type 23</td>
<td>Type 24</td>
<td>Type 25</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title No.</td>
<td>83794</td>
<td>83795</td>
<td>83796</td>
<td>83797</td>
<td>83798</td>
<td>83799</td>
<td>83800</td>
<td>83801</td>
<td>83802</td>
<td>83803</td>
<td>83804</td>
<td>83805</td>
<td>83806</td>
<td>83807</td>
<td>83808</td>
<td>83809</td>
<td>83810</td>
<td>83811</td>
<td>83812</td>
<td>83813</td>
<td>83814</td>
<td>83815</td>
<td>83816</td>
<td>83817</td>
<td>83818</td>
<td>83819</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remarks</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner: Bureau of Land Management
Address: Box 960, Miles City, Mont.

Driller: Henry Johnson
Address: Box 716, Terry, Montana

Date of Notice of Appropriation of Groundwater: 11/4/61

Date well started: 10/18/61
Date completed: 11/4/61

Type of well: Drilled
Equipment used: Cable tool (dug, driven, bored or churn, drill, rotary or other)

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.

Static Water Level for non-flowing Well: 28 feet

Shut-in Pressure for Flowing Well: N/A

Pumping Water Level: 57 feet at 8 gal. per minute

Discharge in gal, per min. of flowing well: N/A

How Tested: Bailing
Length of Test: 1 hr.

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)

3% x 10% stroke cylinder - 8' Ammonator

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

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

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

Driller's License Number
Driller's Signature
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner: **Bureau of Land Management**
Address: Box 960, Miles City, Montana

Driller: **Henry Johnson**
Address: Box 716, Terry, Montana

Date of Notice of Appropriation of Groundwater

Date well started: 1/1/64
Date completed: 1/3/64

Type of well: Drilled
Equipment used: Cable tool
(dug, driven, bored or drilled)

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

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

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>Depth</th>
<th>%</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 5/8&quot;</td>
<td>4 In. 11 lb/ft.</td>
<td>+ 14&quot;</td>
<td>103</td>
<td>Holes 3/8&quot;</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 52 feet.

Shut-in Pressure for Flowing Well: N/A

Pumping Water Level: 74 feet at 20 gal. per minute.

Discharge in gal. per min. of flowing well: N/A

How Tested: Bailing
Length of Test: 1 hr.

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)

3 x 10/"cylinder, 6 ft. Aermotor mill
6 ft. x 6 ft. concrete platform

Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Driller's License Number: "Henry Johnson"
Driller's Signature: "Henry Johnson"

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.

3/4/65
STATE ENGINEER

[Content of the document is not legible due to poor image quality.]

85745

FILED
Feb 6 1964

[Signature]

[Date]
Notice of Completion of Groundwater Appropriation by Means of Drill (Under Chapter 237, Montana Session Laws, 1961)

Owner: Bureau of Land Management Address: Box 940, Miles City, Montana

Driller: Henry Johnson Address: Box 716, Terry, Montana

Date of Notice of Appropriation of Groundwater: N/A

Date well started: 11/6/63 Date Completed: 11/15/63

Type of well: Drilled Equipment Used: Cable-tool (dug, driven, bored or drilled)

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

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

<table>
<thead>
<tr>
<th>Shale</th>
<th>Coal</th>
<th>Sandstone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gray</td>
<td>Black</td>
<td>Blue</td>
</tr>
<tr>
<td>120'</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 120 feet.

Shut-in Pressure for Flowing Well: N/A

Pumping Water Level: 130 feet at 12 gal. per minute.

Discharge in gal, per min. of flowing well: N/A

How Tested: N/A Length of Test: 1 hr.

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

Driller's License Number

Driller's Signature

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the 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 287, Montana Session Laws, 1961)

1. Bureau of Land Management of Box 940, Miles City
   (Name of Appropriator) (Address) (Town)

   County of Custer 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 watering

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been
      Sept. 1960 - 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

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
      Started 5/1/40 and completed 5/12/40

   8. The depth of water table
      160'

   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, 160' deep with 35' monitor tower

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

   11. The log of formations encountered in the drilling of each well if available
      0-140' light shale; 140-45' yellow shale; 45-331' coal & weather; 331-67' gray shale; 67-85'
      light gray shale; 85-95' gray clay; 95-120' gray sandstone; 120-175' gray shale;
      175-180' sticky gray clay; 180-164' gray sandstone; 164-168' light blue coarse sandstone.

   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

   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.

3659
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODES
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: [Name]
Address: [Address]

Date well started: 12-19-70

Date well completed: 12-27-70

Type of well: [Type]

Equipment used: [Equipment]

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

Describe: [Describe]

USB: 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: 200,000 gal.

<table>
<thead>
<tr>
<th>Highshelf</th>
<th>Lowshelf</th>
</tr>
</thead>
<tbody>
<tr>
<td>Static water level</td>
<td>60 ft.</td>
</tr>
<tr>
<td>Pumping water level</td>
<td>70 ft.</td>
</tr>
<tr>
<td>ot</td>
<td>gallons per minute, measured 12 minutes after pumping began.</td>
</tr>
</tbody>
</table>

*Measured from ground level.

Well developed by [Driller] for 9 hours.


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

---

Driller's Signature: [Signature]

Driller's Address: Box 1053, Dillon, Montana 59725

---

LICENSE NO. 140

---

County: [County]

---

Driller: [Driller]

---

181 Show exact depth of bottom

---

Top of Ground

---

<table>
<thead>
<tr>
<th>Date</th>
<th>Gallons</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-00</td>
<td>6000</td>
</tr>
<tr>
<td>0-10</td>
<td>500</td>
</tr>
<tr>
<td>0-20</td>
<td>400</td>
</tr>
<tr>
<td>1-00</td>
<td>300</td>
</tr>
<tr>
<td>1-10</td>
<td>200</td>
</tr>
<tr>
<td>1-20</td>
<td>100</td>
</tr>
<tr>
<td>2-00</td>
<td>00</td>
</tr>
</tbody>
</table>

---

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

EACH SMALL SQUARE REPRESENTS 40 ACRES.
92801

Water Main Drop
3 ft. in
To
The Public

FILED
11:30 o'clock B.M.

[Signature]

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

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

Bureau of Land Management

NAME OF APPLICANT
ADDRESS
TOWN
COUNTRY
STATE

have appropriated groundwater according to the Montana laws in effect prior to January 1, 1982, as follows:

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
1946 - 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 - NW 1/4- Sec. 13- T. 15 R. 46 W.

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

1946

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

1,500,000 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


District Manager

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.
Notice of Completion of Groundwater Appropriation by Means of Well

Owner: P.O. Box 1, Address: Town
Driller: John Doe, Address: Town
Date of Notice of Appropriation of Groundwater: N/A
Date well started: June 7, 1964, Date Completed: June 11, 1964

Type of well: Drilled, Equipment Used: Cable Tool
- (dug, driven, bored or drilled)

Water Use: Domestic ☑, Municipal ☑, Stock ☑, Irrigation ☑, Industrial ☑, Drainage ☑, Other ☑

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

<table>
<thead>
<tr>
<th>Stratum</th>
<th>Top (Feet)</th>
<th>Bottom (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-65 ft. yellow loam</td>
<td>0</td>
<td>65</td>
</tr>
<tr>
<td>65-70 ft. clay</td>
<td>65</td>
<td>70</td>
</tr>
<tr>
<td>70-85 ft. yellow loam</td>
<td>70</td>
<td>85</td>
</tr>
<tr>
<td>85-110 ft. blue silt</td>
<td>85</td>
<td>110</td>
</tr>
<tr>
<td>110-120 ft. coal</td>
<td>110</td>
<td>120</td>
</tr>
<tr>
<td>120-125 ft. black shales</td>
<td>120</td>
<td>125</td>
</tr>
<tr>
<td>125-175 ft. blue silt</td>
<td>125</td>
<td>175</td>
</tr>
<tr>
<td>175-190 ft. black shales</td>
<td>175</td>
<td>190</td>
</tr>
<tr>
<td>190-198 ft. blue silt</td>
<td>190</td>
<td>198</td>
</tr>
</tbody>
</table>

Show exact depth of bottom.

Static Water Level for non-flowing Well: 8.5 feet
Shut-in Pressure for Flowing Well
Pumping Water Level: 175 feet, 15 gal. per minute
Discharge: 30 gal. per minute, of flowing well
How Tested: BAILEY
Length of Test: 16 hours
Remarks: (Gravel packing, cementing, packers, type of shut-off, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation)

Driller's License Number: 246
Driller's Signature

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

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

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

Top of Ground

(Elev. above sea level...)

0-45 Shale, Lt. Yellow Static Water Level
45-50 Shale, Lt. Yellow
50-65 Coal, Black
65-115 Sandstone, Gray
115- Shale, Gray

Owner: Bureau of Land Management
Address: Miles City, Montana

Driller: Joe Johnson Drilling
Address: Terry, Montana

Date of Notice of appropriation of groundwater...

Date well started... Date completed...

Type of well: Drilled Equipment used: Cable tool
(Dig, driven, bored or drilled) (Churn drill, rotary or other)

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.

Static Water Level for non-flowing well...

Shut-in Pressure for Flowing Well...R.P.

Pumping Water Level...

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

How-Tested...

Length of Test...

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

Packers...

(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)

N/A...

Show exact depth of bottom.

McDunlin Bros. Well (M2-B-1892)

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

42,048
# WATER WELL LOG

**Owner:** William C. Smith & Associates  
**Address:** Butte, Montana

**Driller:** John W. Johnson  
**Address:** Butte, Montana

**Date Started:** May 10, 1999  
**Date Completed:** May 21, 1999

**Location:** Sec. 19, T. 15, R. 46, 1/4 sec. 36

## Type of well
- **Drilled**
- **Equipment used:**
- **Cable Tool**

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

**Casing:**
- 0 ft. to 130 ft.  
- Type: Std.  
- Size: 6"

**Perforated or Screened:**
- 60 ft. to 80 ft.  
- Type:  
- Size:  

**Static Water level, for non-flowing well:** 58 ft.

**Shut-in pressure, for flowing well:** 50 lb./sq. in. on: (date)

**Pumping water level:** 60 ft. at 4 gal. per min.

**How tested:**

**Length of test:** 1 hr.

**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</td>
<td>Yellow Loam and shale</td>
</tr>
<tr>
<td>30</td>
<td>Shale</td>
</tr>
<tr>
<td>65</td>
<td>Coal</td>
</tr>
<tr>
<td>77</td>
<td>Shale</td>
</tr>
<tr>
<td>120</td>
<td>Coal</td>
</tr>
<tr>
<td>127</td>
<td>Shale</td>
</tr>
<tr>
<td>130</td>
<td>Shale</td>
</tr>
</tbody>
</table>
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Bureau of Land Management of Broughton City
   (Name of Appropriator) (Address) (Town)

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

   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
      1927 - continuous

   4. The amount of groundwater claimed (in miner's inches or gallons per minute)
      9 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 or sucker of Sec. 29

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

   8. The depth of water table
      1924

   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 1921, deep, standard 4-in. casing

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

District Manager

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.

3658
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights
(Under Chapter 257, Montana Session Laws, 1961)

STATE ENGINEER

1. Permit of Land Management: Box 940, Miles City, Montana
   (Name of Appropriator) (Address) (Town)
   County of: 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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
   8/29/63 = 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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
   Started 8/22/63 and completed 8/29/63

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
   Drilled well = 132 ft. deep; 30 ft. of water

10. The estimated amount of groundwater withdrawn each year
    1,900,000 gal.

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

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

Date

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.
Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner: Bureau of Land Management
Address: Miles City, Montana

Driller: Joe Johnson Drilling
Address: Terry, Montana

State of Montana

Date of Notice of appropriation of groundwater: __________

Date well started: __________ Date completed: __________

Type of well: Drilled Equipment used: Cable tool

(Dug, driven, bored or drilled) (Churn drill, rotary or other)

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>
<th>Kind of casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8&quot;</td>
<td>6&quot; L.D.</td>
<td>+2</td>
<td>273</td>
<td>10&quot; x 0&quot;</td>
<td>190</td>
<td>273</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well: __________

Shut-in Pressure for flowing well: N/A

Pumping Water Level: __________

at: __________ gal. per minute.

Discharge in gal. per min. of flowing well: N/A

How Tested: N/A

Length of Test: __________ hours

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

(N/A)

(N/A)

(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).

N/A

Timber Creek Well (M2-R-1857)

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

STATE OF MONTANA

COUNTY OF

ADMINISTRATOR OF GROUNDWATER

OFFICE OF STATE ENGINEER

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

STATE OF MONTANA

COUNTY OF "Prairie"

ADMINISTRATOR OF GROUNDWATER

OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 237, Montana Session Laws, 1961)
Fill No. 

**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 |

<table>
<thead>
<tr>
<th>Name of Appropriator</th>
<th>Address</th>
<th>(Town)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Custer</td>
<td>State of Montana</td>
<td></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 ____________________________

**Livestock water**

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

**August 17, 1961. 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 - REACTOR of Res. 27**

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

**Started 8/10/61 completed 8/16/61**

8. The depth of water table ____________________________

**233'**

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 - 233' deep, standard 6' casing.**

10. The estimated amount of groundwater withdrawn each year ____________________________

**2,500,000 gal.**

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

**0-47' yellow clay 47-75' course sand (0-1 gal/min); 75-150' gray gumbo clay; 150-190' coal; 190-204' gray gumbo clay; 204-206' hard rock; 206-233' fine sand (10 gal/min); 233-256' gray gumbo clay.**

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

**District Manager**

**Appropriator**

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. Bureau of Land Management
   (Name of Appropriator)
   of
   (Address)
   (Town)
   County of
   State of
   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
   1948 - 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 - NE1/4 Sec. 33 T35N R66E

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
   1948

8. The depth of water table
   220'

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 220' deep - standard 4' casing

10. The estimated amount of groundwater withdrawn each year
    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

District Manager

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.
<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>Northern Pacific Railway Co.</td>
<td>GW-4</td>
<td>63287</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>HELLAND, Hans</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>BUREAU OF LAND MANAGEMENT</td>
<td>GW-2</td>
<td>42874</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>BUREAU OF LAND MANAGEMENT</td>
<td>GW-2</td>
<td>92800</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>BUREAU OF LAND MANAGEMENT</td>
<td>GW-2</td>
<td>92445</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>HELLAND, Frank H.</td>
<td>GW-4</td>
<td>85490</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>HELLAND, Hans C.</td>
<td>GW-4</td>
<td>85419</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>BUREAU OF LAND MANAGEMENT</td>
<td>GW-4</td>
<td>84613</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>BUREAU OF LAND MANAGEMENT</td>
<td>GW-2</td>
<td>87053</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>HUBING, Lee</td>
<td>GW-4</td>
<td>87667</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>HUBING, Lee</td>
<td>GW-4</td>
<td>85606</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>BUREAU OF LAND MANAGEMENT</td>
<td>GW-2</td>
<td>87092</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>設計 13</td>
<td>GW-2</td>
<td>94102</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>設計 14</td>
<td>GW-2</td>
<td>94102</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: Lee Chapman
Address: Terry, Montana

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

Date of Notice of appropriation of groundwater: 4/26/73
Date completed: 4/26/73

Type of well drilled: Plastic
Equipment used: Plastic

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 Cutting</th>
<th>From (Foot)</th>
<th>To (Foot)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>A&quot; plastic</td>
<td>0</td>
<td>89</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well: 96 feet.
Shut-In Pressure for Flowing Well: 73 feet
Pumping Water Level: 73 feet at 27 gal. per minute.
Discharge in gal. per min. of flowing well: 4

How Tested: Baller
Length of Test: 4

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

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

Show exact depth of bottom.

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 shall be returned.

Driller's License Number

Driller's Signature

53/18
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. Northern Pacific Railway Company of Minnesota, St. Paul (Name of Appropriator)
   County of Ramsey, State of Minnesota (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: **Furnishing water for livestock.**

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been: **Continuous since 1950.**

   4. The amount of groundwater claimed (in miner's inches or gallons per minute): **24 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: **Well, drilled in 1950.**

   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: **No, foot deep - 4-inch casing.**

   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.**

   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 _____________________________
   Dist. Supervisor, Grsl. & 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.
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner: [Name]  Address: [Address]  Driller: [Name]  Address: [Address]

Date Started: [Date]  Date Completed: [Date]


Type of well: Drilled  Equipment used: Cable Tool

Water use: Domestic  Municipal  Stock  Irrigation

Industrial  Drainage  Other:

Casing: [Type]  Std. Pipe  Size: [Size] ft. to 207 ft.

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

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

Perforated or Screened: Ft. 90 to Ft. 100

Type of screen or perforations: [Screen]

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

Shut-in pressure, for flowing well: [Pressure] lb./sq. in. on: [Date]

Pumping water level: [Height] feet at [Height] gal. per min.

How tested: [Test]

Length of test: 1 hr

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>35</td>
</tr>
<tr>
<td>35</td>
<td>55</td>
</tr>
<tr>
<td>45</td>
<td>85</td>
</tr>
<tr>
<td>85</td>
<td>95</td>
</tr>
<tr>
<td>95</td>
<td>140</td>
</tr>
<tr>
<td>140</td>
<td>165</td>
</tr>
<tr>
<td>165</td>
<td>170</td>
</tr>
<tr>
<td>170</td>
<td>195</td>
</tr>
<tr>
<td>195</td>
<td>207</td>
</tr>
</tbody>
</table>
Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner: Bureau of Land Management, Address: Box 960, Miles City, Mont.

Driller: Daniel G. Haggerty, Address: Box 173, Lindsay, Montana

Date of Notice of Appropriation of Groundwater: June 17, 1964

Date well started: 6/17/64, Date Completed: 6/23/64

Type of well: Drilled, Equipment Used: Cable tool

Water Use: Domestic, Municipal, Stock, Irrigation

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>
</table>
| 6"                   | 4" I.D., 118/lb/hr.       | + 1            | 83

PERFORATIONS

Static Water Level for non-flowing Well: 18 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level: 30 feet at 6 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested: Bailing, 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)

Water - Fair

Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.
NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION 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>U.S. Bureau of Land Management</th>
<th>For Administrator's Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>Miles City, Montana</td>
</tr>
<tr>
<td>Date well started</td>
<td>11-30-70</td>
</tr>
<tr>
<td>completed</td>
<td>12-9-70</td>
</tr>
<tr>
<td>Type of well</td>
<td>Drilled</td>
</tr>
<tr>
<td>Equipment used</td>
<td>Cable Tool</td>
</tr>
<tr>
<td>Water Use</td>
<td>Domestic ☐, Municipal ☐, Stock ☐, Irrigation ☐, Industrial ☐, Drainage ☐, Other ☐, Garden/Lawn ☐</td>
</tr>
<tr>
<td>*Describe</td>
<td></td>
</tr>
<tr>
<td>USE:</td>
<td></td>
</tr>
<tr>
<td>*If used for Irrigation, Industrial, Drainage or Other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition).</td>
<td></td>
</tr>
</tbody>
</table>

ESTIMATED ANNUAL WITHDRAWAL: 200,000 Gal.

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Rate and Volume of Wells</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>8&quot;</td>
<td>6 5/8</td>
<td>6.97&quot;</td>
<td>18&quot;</td>
<td>201</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Static water level   | 140 ft.                   |
| Pumping water level  | 150 ft.                   |
| at                  | 180 gallons per minute, measured 180 minutes after pumping began. |
| *Measured from ground level. |
| Well developed by     | bailer                    |
| for                  | 4 hours                   |
| Power                |                          |
| Remarks:             | (Gravel packing, cementing, packers, type of shutoff) |
| rubber packers between aquifer and above |

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

Driller's Signature: Briggs Drilling Contractor

Driller's Address: P.O. Box 109, Dillon, Montana 59725

License No.: 148
**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, 1942

(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, lest copy to be retained by driller.

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

---

**Notice of Completion of Groundwater Appropria**

**tion by Means of Well**

- **Top of Ground**
  - **Form**
  - **Feet**
  - **Water Level**

<table>
<thead>
<tr>
<th>Form</th>
<th>Feet</th>
<th>Water Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>180</td>
<td>190</td>
<td>190</td>
</tr>
</tbody>
</table>

- **Static Water Level** 180 ft.

- **Pumping Water Level** 190 ft.

- **Well developed by**

- **Power** Pump, **HP**

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

---

**Indicate Location of Well and Place of Use, If Possible. Each Small Square Represents 40 Acres.**

**Driller's Drilling Contractor**

**Driller's Signature**

**Driller's Address**

**License No.**

---

**Show exact depth of bottom**

---
**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**

[Bureau of Land Management]

For Administrator's Use

**Address**

Miles City, Montana

File 93445

December 22, 1971

9:15 AM

---

**Date well started** 3/24/71

GW 1

**Completed** 5/25/71

---

**Type of well** Drilled

**Equipment used** Air 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>Size of Drilled Hole</th>
<th>Size and Thickness of Casing</th>
<th>From (Ft)</th>
<th>To (Ft)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 7/8&quot; 6&quot; ID</td>
<td>1B.97#</td>
<td>188</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Static water level** 85 ft.

**Pumping water level** 100 ft.

at 1 galaxies per minute, measured 10 minutes after pumping began.

*Measured from ground level.

**Well developed by** Air

for 8 hours.

Power: Pump: HP

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

**Well is gravel packed**

---

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

Driller's Signature

[Signature]

Driller's Address

Joe Johnson, Terry, Montana

---

**LICENSE NO. 154**

Top of Ground

(Cert. show net level)

<table>
<thead>
<tr>
<th>From (Ft)</th>
<th>To (Ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>a 20</td>
<td>Brown Sand</td>
</tr>
<tr>
<td>20 40</td>
<td>Brown Clay</td>
</tr>
<tr>
<td>40 60</td>
<td>Gray Clay</td>
</tr>
<tr>
<td>60 80</td>
<td>Coal</td>
</tr>
<tr>
<td>80 120</td>
<td>Blue &amp; Gray Clay</td>
</tr>
</tbody>
</table>

---

**Show exact depth of bottom**

4/36/72
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

Frank H. Nelson
(Brookings)

County of

State of

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

2. The beneficial use on which the claim is based

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

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

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

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

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

8. The depth of water table

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

10. The estimated amount of groundwater withdrawn each year

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

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

Signature of Owner

Date

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

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

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