BROCKWAY, MONT. Stockyard Well AFE-33-53
Yellowstone Div.
8th Sub Div.
April 23, 1956
6" Well, 309' Deep
Drilled by E.A. Bodin N.P.R.Y.
Work begun 7/22/54 Completed 8/2/54

Water Analyses
Calcium Bicarbonate
Magnesium Bicarbonate 1.2 " Expressed
Sodium Bicarbonate
Sugar
Chloride
Silica
Iron
Fluoride 1.2 ppm
P H 8.1
Total Dissolved Solids 68.1 gpg (Actual)

Note: See File 1144-1 for Drilling and Test data
Office of Engineer of Water Service
St. Paul, Minn.

Location Plan
Scale 1" = 100'

Vertical Scale 1" = 50'
<table>
<thead>
<tr>
<th>Owner</th>
<th>La Vaine Logan</th>
<th>Address</th>
<th>Brookway</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller</td>
<td>Ira C. Bond</td>
<td>Address</td>
<td>Terry</td>
</tr>
<tr>
<td>Date Started</td>
<td>5/5/57</td>
<td>Date Completed</td>
<td>9/5/57</td>
</tr>
<tr>
<td>Location</td>
<td>Sec. 20, T. 13, R. 47 ¼ sec. 3 ¼</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Type of well**: Drilled  
**Equipment used**: Cable  
**Water use**: Domestic [☑]  
**Casing**: Surface ft. to 72 ft. Type [100] Size 42  
**Casing**:  
**Casing**: ft. to ft. Type Size  
**Perforated or Screened**: Ft. 52 ft. to 66 ft. to ft.  
**Type of screen or perforations**: Holes  
**Static Water level, for non-flowing well**: 51 feet  
**Shut-in pressure, for flowing well**: lb./sq. in. on: (date)  
**Pumping water level**: 50 feet at 25 gal. per min.  
**How tested**: Bailor  
**Length of test**: 3 Hours  
**Remarks**: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)  

*This well was gravel packed to hold-out sands.*
### State Engineer Water Well Log

<table>
<thead>
<tr>
<th>Owner</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>La Vaine-Logan</td>
<td>Broadway</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Driller</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ira U. Bond</td>
<td>Terry</td>
</tr>
</tbody>
</table>

**Date Started:** 9/3/57  
**Date Completed:** 9/5/57

**Location:** Sec. 20, T. 18, R. 47, 1/4 sec. 34

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Equipment used</th>
<th>Drill (dog, driven, bored, or drilled)</th>
<th>Casing (size)</th>
<th>Water use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drilled</td>
<td></td>
<td></td>
<td></td>
<td>Domestic</td>
</tr>
</tbody>
</table>

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

**Casing:**
- Surface ft to 73 ft
- Type: Metal
- Size: 4"

**Casing:**
- Size: 3"

**Perforated or Screened:**
- Ft. 52 to Ft. 65
- Ft. to Ft.

**Type of screen or perforations:**
- Holes

**Static Water level, for non-flowing well:** 51 feet

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

**Pumping water level:** 50 feet at 25 gal. per min.

**How tested:** Boiler

**Length of test:** 2 Hours

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

- This Well was gravel-packed to hold out Sand.
## Log of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 26</td>
<td>Sandy black clay</td>
</tr>
<tr>
<td>26 - 30</td>
<td>Yellow clay and gravel</td>
</tr>
<tr>
<td>30 - 52</td>
<td>Gumbo</td>
</tr>
<tr>
<td>52 - 66</td>
<td>Water sand-hills 95 ft...</td>
</tr>
<tr>
<td>66 - 72</td>
<td>Gumbo bottom of hole</td>
</tr>
</tbody>
</table>

---

No fee
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana
WATER WELL LOG

Owner: La-Vaine Logan
Address: Broadway, Montana

Driller: Ira G. Bond
Address: Terry, Montana

Date Started: December 28, 1960
Date Completed: Dec. 29, 1960
Location: Sec. 26 T. 15 R. 67 1/4 sec. SW

Type of well: Drilled
Equipment used: Cable Tool

Water use:
- Domestic
- Municipal
- Stock
- Irrigation
- Other:

Casing:
- 0 ft. to 60 ft. Type: Steel Size: 4 inch

Perforated or Screened:
- 38 ft. to 55 ft. Size:

Type of screen or perforations: 8 inch slots 3/16 in wide out in with torch

Static Water level, for non-flowing well: 30 feet

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

Pumping water level: 52 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)

- Hole was reamed to 8 inch, then casing welded in 56 with out couplings.
- Then hole was filled with gravel outside of casing up to 50 ft.

(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>30</td>
</tr>
<tr>
<td>30</td>
<td>38</td>
</tr>
<tr>
<td>38</td>
<td>55</td>
</tr>
<tr>
<td>55</td>
<td>60</td>
</tr>
<tr>
<td><strong>Owner</strong></td>
<td>Ray Goodman</td>
</tr>
<tr>
<td>-----------</td>
<td>-------------</td>
</tr>
<tr>
<td><strong>Driller</strong></td>
<td>Albert &amp; Edward Brost</td>
</tr>
<tr>
<td><strong>Date Started</strong></td>
<td>December 8, 1960</td>
</tr>
<tr>
<td><strong>Location</strong></td>
<td>Sec. 20, T. 18, R. 47, 44 sec.</td>
</tr>
</tbody>
</table>

**Type of well** Drilled  
(Dug, driven, bored, or drilled)  
(Churn drill, rotary, other)

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

**Casing:**  
- Top: ft. to 6 3  
- Type: Steel  
- Size: 4 ft.

**Perforated or Screened:**  
- Ft. to Ft.  
- Type: Screen or perforations.

**Static Water level, for non-flowing well:** 40 feet from the top.

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

**Pumping water level:** 55 ft.  
- feet at: 20  
- gal. per min.

**How tested:**  
- [ ] Baler

**Length of test:** 1 hour

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

Gravel packed the water main

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>top 23'</td>
<td>Yellow sandy dirt</td>
</tr>
<tr>
<td>23' 29'</td>
<td>Gravel</td>
</tr>
<tr>
<td>29' 33'</td>
<td>Coal</td>
</tr>
<tr>
<td>33' 36'</td>
<td>Blue sandy loam</td>
</tr>
<tr>
<td>36' 62'</td>
<td>Water baring sand</td>
</tr>
</tbody>
</table>

DOCS. NO. 122180
WATER WELL LOG FILE NO. 99

<table>
<thead>
<tr>
<th>Field</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>County</td>
<td>McCone</td>
</tr>
<tr>
<td>Location</td>
<td>Sec. 10 T. 18 R. 47 1/4 sec SW 1/4 SW 1/2</td>
</tr>
<tr>
<td>Type of well</td>
<td>Drilled</td>
</tr>
<tr>
<td>Water use</td>
<td>Domestic</td>
</tr>
<tr>
<td>Casing</td>
<td>0 ft. to 117 ft. Type Standard Size 4 in.</td>
</tr>
<tr>
<td>Casing</td>
<td>117 ft. to 117 ft. Type Standard Size 4 in.</td>
</tr>
<tr>
<td>Perforated or Screened</td>
<td>107 ft. to 117 ft. Type Standard Size 4 in.</td>
</tr>
<tr>
<td>Type of screen or perforations</td>
<td>gravel packs in casing</td>
</tr>
<tr>
<td>Static Water level, for non-flowing well</td>
<td>44 feet</td>
</tr>
<tr>
<td>Shut-in pressure, for flowing well</td>
<td>1 lb./sq. in. on: (1.5)</td>
</tr>
<tr>
<td>Pumping water level</td>
<td>99 feet at 7 gal. per min.</td>
</tr>
<tr>
<td>How tested</td>
<td>drill</td>
</tr>
<tr>
<td>Length of test</td>
<td>2 hrs.</td>
</tr>
<tr>
<td>Remarks</td>
<td>Gravel packing, cementing, packers, type of shut-off, depth of shut-off</td>
</tr>
<tr>
<td>Depth, feet</td>
<td>Description of Material Drilled</td>
</tr>
<tr>
<td>------------</td>
<td>---------------------------------</td>
</tr>
<tr>
<td>From 6</td>
<td>To 13</td>
</tr>
<tr>
<td>10</td>
<td>35</td>
</tr>
<tr>
<td>33</td>
<td>41</td>
</tr>
<tr>
<td>41</td>
<td>49</td>
</tr>
<tr>
<td>49</td>
<td>59</td>
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<tr>
<td>59</td>
<td>66</td>
</tr>
<tr>
<td>66</td>
<td>74</td>
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<tr>
<td>76</td>
<td>84</td>
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<td>84</td>
<td>94</td>
</tr>
<tr>
<td>99</td>
<td>106</td>
</tr>
<tr>
<td>106</td>
<td>111</td>
</tr>
<tr>
<td>111</td>
<td>117</td>
</tr>
</tbody>
</table>

**Log of Well**

**DOC. NO.** 123342

**WATER WELL LOG FILE NO. 90**

State of Montana
County of McCone

Office of Clerk and Recorder.

Filed this 2034 day of December A.D. 1961
at 2:35 P.M.

[Signature]

Dep't

Fee $0
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Northern Pacific Railway Co. (Name of Appropriator)
   W. F. Haggard (Address)
   Broadview (Town)
   County of: Meeker
   State of: Montana
   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
   August 2, 1934 to present

4. The amount of groundwater claimed (in miner's inches or gallons per minute)
   40 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
   (Name)

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

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

8. The depth of water table
   (Depth)

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
   (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
    (Reference)

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.
Water Well Log # 250

State of Montana
County of McCone
Office of Clerk and Recorder.
Filed this 18th day of November A.D. 19-63

M. S. P. M.
Clerk and Recorder

Fee $1.00
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: [Name]
Address: [Address]

Date of Notice of Appropriation of groundwater: [Date]
Date well started: [Date]
Date completed: [Date]

Type of well: [Type]
Equipment used: [Equipment]

Water use: [Use]

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>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>4&quot; plastic</td>
<td>0</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>3/16</td>
<td></td>
<td>50</td>
<td>60</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well: [Level] feet
Shut-in Pressure for Flowing Well: [Pressure] feet
Pumping Water Level: [Level] feet
Discharge in gal. per min. of flowing well: [Discharge]

How Tested: [Test]
Length of Test: [Time]

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

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).

[Diagram]

[Signature]
Driller's Signature

[Signature]
County Clerk and Recorder in the county in which the well is located.

[Signature]
Driller's License Number

Please answer all questions. If not applicable, so state, otherwise the form will be returned.
DOC. NO. 141099
WATER WELL LOG FILE NO. 724

EDITH LaCOUNI
TO
THE PUBLIC

State of Montana
County of McCone
Office of Clerk and Recorder.
Filed this ______ day of
March A.D. 1973
at ______ o'clock P.M.

[Signature]
Clerk and Recorder

Fe__ $2.00
**WATER WELL LOG**

Owner: Harley Berry  
Address: Broadway, Montana

Driller: Ira G. Bond  
Address: Terry, Montana

Date Started: September 24, 1960  
Date Completed: Sept. 27, 1960

Location: Sec. 27  
T. 18  
R. 47  
1/4 sec. NE 4 of the NW 4

**Type of well:** Drilled  
(Dug, driven, bored, or drilled)  
(Drill, rotary, other)

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

**Casing:** 0 ft. to 166 ft.  
Type: Steel  
Size: 4 inch

**Casing:**  
Type:  
Size:

**Casing:**  
Type:  
Size:

**Perforated or Screened:** 138 ft. to 160 ft.  
Type:  
Size:

**Type of screen or perforations:** 5/16 in. holes out three in. apart with torch

**Static Water level, for non-flowing well:** 150 feet

**Shut-in pressure, for flowing well:** 0 lb./sq. in. on:  
(date)

**Pumping water level:** 144 feet at 4 gal. per min.

**How tested:** with bailer

**Length of test:** one hour

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

---

**STATE ENGINEER**

[RECEIVED]

JUL 21 1960
### Log of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>4 Sandy top soil</td>
</tr>
<tr>
<td>4</td>
<td>40 Yellow sandy clay</td>
</tr>
<tr>
<td>40</td>
<td>46 Hole, (cavity) no formation</td>
</tr>
<tr>
<td>46</td>
<td>70 Gumbo</td>
</tr>
<tr>
<td>70</td>
<td>71 coal slack</td>
</tr>
<tr>
<td>71</td>
<td>101 Gumbo</td>
</tr>
<tr>
<td>101</td>
<td>104 Coal</td>
</tr>
<tr>
<td>104</td>
<td>130 Gumbo</td>
</tr>
<tr>
<td>130</td>
<td>133 Sandstone</td>
</tr>
<tr>
<td>133</td>
<td>160 Water Sand</td>
</tr>
<tr>
<td>160</td>
<td>266 Gumbo</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. Oscar F. Backel of Brockway
   (Name of Appropriator) (Address)
   County of Lewis 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: watering

3. Date or approximate date of earliest beneficial use; and how continuous the use has been:
   January 1962

4. The amount of groundwater claimed (feet, inches, or gallons per minute):
   Twenty-five feet ground

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
   January 1962

8. The depth of water table:
   80 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater:
   Not available

10. The estimated amount of groundwater withdrawn each year:
    80,000 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: Oscar F. Backel
Date: 12-31-62

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 FILE NO. 944

OSCAR E. GAILLARD

TO:

THE PUBLIC

STATE OF MONTANA
COUNTY OF ROGERS

OFFICE OF COUNTY CLERK & RECORDER

Filed this 2nd day of Jan., 1966 A.D. at 8:35 o'clock, A.M.

[Signature]
COUNTY CLERK

FEE: $2.00
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

<table>
<thead>
<tr>
<th>Owner: Oscar Gackle</th>
<th>Address: Broadway, Montana</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller: Albert &amp; Edward Frost</td>
<td>Address: Broadway, Montana</td>
</tr>
<tr>
<td>Date Started: December 29, 1960</td>
<td>Date Completed: January 6, 1961</td>
</tr>
<tr>
<td>Location: Sec. 31, T. 18, R. 41, 1/4 sec. N.W. 1/4</td>
<td></td>
</tr>
</tbody>
</table>

**Type of well**: Drilled

**Equipment used**: Churn drill

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

Domestic [ ] Municipal [ ] Stock [ ] Irrigation [ ]

**Casing**: Top...

Type: Steel

Size: 4"...

Casing:...

Type:...

Size:...

**Perforated or Screened**:...

Type of screen or perforations: Holes in casing...

**Static Water level, for non-flowing well**: 90 ft. from the top...

**Shut-in pressure, for flowing well**:...

**Pumping water level**: 115 ft. at 20 gal. per min. Exponent...

**How tested**:...

**Length of test**: 1/2 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>
</tr>
</thead>
<tbody>
<tr>
<td>Top 21'</td>
<td>Yellow sandy dirt</td>
</tr>
<tr>
<td>21' 27'</td>
<td>Sand</td>
</tr>
<tr>
<td>27' 32'</td>
<td>Coal</td>
</tr>
<tr>
<td>32' 35'</td>
<td>Blue sandy loam</td>
</tr>
<tr>
<td>35' 40'</td>
<td>Sand</td>
</tr>
<tr>
<td>40' 44'</td>
<td>Yellow sandy dirt</td>
</tr>
<tr>
<td>44' 92'</td>
<td>Blue sandy loam</td>
</tr>
<tr>
<td>92' 95'</td>
<td>Coal</td>
</tr>
<tr>
<td>95' 122'</td>
<td>Blue clay</td>
</tr>
<tr>
<td>122' 129'</td>
<td>Brown sand</td>
</tr>
<tr>
<td>129' 135'</td>
<td>Water baring sand</td>
</tr>
<tr>
<td>135' 138'</td>
<td>Blue clay</td>
</tr>
</tbody>
</table>

**LOG NO. 122179**

WATER WELL LOG FILE NO. 53

State of Montana  |                        |
County of Mccone  |                        |
Office of Clerk and Recorder |
Filed this 3/20 | A.D. 1961, 1 o'clock |
of April 2 | Clerk and Recorder |
Pr. None |
STATE ENGINEER
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

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

Location: Sec. 34, T. 18 R. 47, 1/4 sec. NE^4 of the 5th

Type of well: Drilled
Equipment used: Cable Rod

Water use: Domestic ☐, Municipal ☐, Block ☐, Irrigation ☐
Industrial ☐, Drainage ☐, Other: ☐

Casing: 0 ft. to 183 ft. Type: Steel, Size: 6 inch

Perforated or Screened:ft. to ft. Type: steel, Size: ft.

Type of screen or perforations: 3/8 holes, 3 in. apart, with cutting torch

Static Water level, for non-flowing well: At 100 feet
Shut-in pressure, for flowing well: lb./sq. in. on: (date)
Pumping water level: 1006 feet at 6 gal. per min.

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>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Yellow clay</td>
</tr>
<tr>
<td>40</td>
<td>Gumbo</td>
</tr>
<tr>
<td>50</td>
<td>Coal</td>
</tr>
<tr>
<td>60</td>
<td>Gumbo</td>
</tr>
<tr>
<td>70</td>
<td>Light sand rock</td>
</tr>
<tr>
<td>96</td>
<td>Coal slack</td>
</tr>
<tr>
<td>104</td>
<td>Clay</td>
</tr>
<tr>
<td>112</td>
<td>Sand rock and water</td>
</tr>
<tr>
<td>125</td>
<td>Clay</td>
</tr>
<tr>
<td>130</td>
<td>Gumbo</td>
</tr>
</tbody>
</table>

WATER WELL LOG FILE NO. 24

1491.23

Office of Clerk and Recorder.

Filed this 11th day of June, 1879
9110 Office of Clerk and Recorder

Cherry & Shaw

The 00.00
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 40</td>
<td>Yellow clay</td>
</tr>
<tr>
<td>40 - 59</td>
<td>Gumbo</td>
</tr>
<tr>
<td>59 - 60</td>
<td>Coal</td>
</tr>
<tr>
<td>60 - 70</td>
<td>Gumbo</td>
</tr>
<tr>
<td>70 - 96</td>
<td>Light sand rock</td>
</tr>
<tr>
<td>96 - 104</td>
<td>Coal slack</td>
</tr>
<tr>
<td>104 - 112</td>
<td>Clay</td>
</tr>
<tr>
<td>112 - 126</td>
<td>Sand rock and water</td>
</tr>
<tr>
<td>126 - 140</td>
<td>Clay</td>
</tr>
<tr>
<td>140 - 150</td>
<td>Gumbo</td>
</tr>
</tbody>
</table>

WATER WELL LOG FILE NO. 24

119423

Town of Minneola
County of McCook

Office of Clerk and Recorder
Filed this 21st day of June A.D. 1959

Ch. and Recorder 2

Geo. H. Davis

Sec. 2
### Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

**Owner:** ERNEST STRID

**Address:** CIRCLE

**Driller:** WHITMIRE

**Address:** WOLF POINT

---

**Date of Notice of Appropriation of Groundwater:**

**Date Well Started:** JUNE 15

**Date Completed:** JUNE 20, 1968

**Type of Well:** Equipment Used: **SPUDDER**

- (cute, driven, bored or drilled)
- (Churn, drill, rotary or other)

**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</th>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>8'</td>
<td>4 1/2, 11/2</td>
<td>0</td>
<td>85</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 50 feet.

Shut-in Pressure for Flowing Well: 75 psi.

Pumping Water Level: 75 feet at 150 gal. per minute.

Discharge in gal. per min. of flowing well: 14.5 HP.

- **How Tested:** BAILOR
- **Length of Test:** 41 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 Pack on 47 Side**
- **Mud Seal on Top of**
- **Gravel**

---

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

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

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

**Driller's License Number:**

**Driller's Signature:**

**Date:** JUL 22, 1968
## Groundwater Index

<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>File No.</th>
<th>Remarks</th>
</tr>
</thead>
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<td>GW H</td>
<td>133035</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>FW</td>
<td>139945</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td>137924</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Neighbors, Don &amp; Edith</td>
<td>GW H</td>
<td>127076</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Neighbors, Edith</td>
<td>GW H</td>
<td>127127</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Mothershead, Robert</td>
<td>GW H</td>
<td>127248</td>
<td></td>
</tr>
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<td>7</td>
<td>Quaker, Floyd R. Inc.</td>
<td>H</td>
<td>126825</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Heide, Edward &amp; George</td>
<td>GW H</td>
<td>126907</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Johnson, Warner D.</td>
<td>GW H</td>
<td>127297</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Mothershead, Robert</td>
<td>GW H</td>
<td>127472</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Johnson, Warner D.</td>
<td>H</td>
<td>127425</td>
<td></td>
</tr>
<tr>
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<td>&quot;</td>
<td>H</td>
<td>127472</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>&quot;</td>
<td>H</td>
<td>127425</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>McClay, Robert</td>
<td>GW T</td>
<td>123723</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Mahn, James A.</td>
<td>GW H</td>
<td>127192</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>maid, Robert</td>
<td>GW H</td>
<td>127171</td>
<td></td>
</tr>
<tr>
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<td>Heide, Edward &amp; George</td>
<td>13</td>
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<td>18</td>
<td>&quot;</td>
<td>GW H</td>
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<td>H</td>
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<td></td>
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<td>&quot;</td>
<td>H</td>
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<tr>
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<tr>
<td>23</td>
<td>McClay, James A.</td>
<td>GW H</td>
<td>127192</td>
<td></td>
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<td>&quot;</td>
<td>H</td>
<td>127171</td>
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<tr>
<td>26</td>
<td>McClay, Robert</td>
<td>H</td>
<td>123750</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>Heide, Edward &amp; George</td>
<td>H</td>
<td>127171</td>
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</tr>
<tr>
<td>28</td>
<td>&quot;</td>
<td>H</td>
<td>127171</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>&quot;</td>
<td>H</td>
<td>127171</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>&quot;</td>
<td>H</td>
<td>127171</td>
<td></td>
</tr>
</tbody>
</table>
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. Milo O. Hilestad of Circle, MT
   County of Mead, State of Montana
   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1941

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

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: By pump and cylinder and/or centrifugal pump and/or submersible pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1941-1952

8. The depth of water table: Approximately sixty 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: Bored - six inch well

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

Signature of Owner: Milo O. Hilestad
Date: April 9, 1968

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.
133835

Water Well Log #662

State of Montana
County of McCone

Office of Clerk and Recorder.

Filed this_________9th________ day of
April_____________ A. D. 1968
at...8:55________ o'clock ______A. M.

Deputy Clerk and Recorder

by_______Alice E. Kallen_______

Fee...$2.00
**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.

**Driller's Log**

<table>
<thead>
<tr>
<th>Top of Ground</th>
<th>(Gee., shore sea level)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.21</td>
<td>SAND-CLAY</td>
</tr>
<tr>
<td>0.02</td>
<td>SAND</td>
</tr>
<tr>
<td>0.08</td>
<td>SAND</td>
</tr>
<tr>
<td>0.72</td>
<td>COAL</td>
</tr>
<tr>
<td>1.15</td>
<td>SAND</td>
</tr>
<tr>
<td>2.31</td>
<td>SAND</td>
</tr>
<tr>
<td>4.15</td>
<td>SAND</td>
</tr>
</tbody>
</table>

**Owner:** Mr., Hilford

**Address:** Uncle Mont...File #215, 139942...

**Date well started:** 7-27-71

**Completed:** 5-4-71

**Type of well:** DRILLED

**Equipment used:** ROTARY

**Water Use:** Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

**Industrial ☐ Drainage ☐ Other ☐** Garden/Lawn ☐

*Describe _______________________

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

---

**Estimated Annual Withdrawal**

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Protect of casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>C 1/4</td>
<td>4</td>
<td>1</td>
<td>1 135</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Static water level:** 20 ft...

**Pumping water level:** 40 ft...

*Measured from ground level.

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

**Power:** Pump... HP

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

---

**Indicate Location of Well and Place of Use, if possible. Each small square represents 40 acres.**

---

**Driller's Signature:** Dean Drilling Inc.

**Driller's Address:** Jordan, Mont.

**License No.:** 29

---

Show exact depth of bottom

---

59 962
State of Montana
County of McCone
Office of Clerk and Recorder.
Filed this 12th day of
July, A.D. 1972
at 11:25 a.m. A. M.

Recorder

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

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL
Developed after January 1, 1962
(Under Chapter 237 Montana Session Laws, 1961, as amended)

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, last copy to be retained by driller. Please answer all questions. If not applicable, so state, otherwise the form may be returned.

Owner: [Name]
Address: [Address]
Date well started: [Date]
completed: [Date]
Type of well: [Type]
Equipment used: [Equipment]
Water Use: Domestic [X] Municipal [ ] Stock [ ] Irrigation [ ] Industrial [ ] Drainage [ ] Other [ ] Garden/Lawn [ ]

*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

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Depth of Cutting</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>11&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8&quot; 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static water level: [Static Water Level]
Pumping water level: [Pumping Water Level]

*Measured from ground level.

Well developed by [Method] for [Hours] hours.
Power: [Power] HP
Remarks: [Remarks]

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

Driller's Signature: [Signature]
Driller's Address: [Address]
LICENSE NO: 29

Show exact depth of bottom:
50.96'
139941
Water Well Log File #714

State of Montana
County of McCone
Office of Clerk and Recorder.
Filed this 18th day of
July, A.D. 1972
at 11:20 o'clock A.M.

[Signature]

W. Mary L. [Name]
Deputy
## NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

---

**Owner**

**Address**

**Date well started**

**Date well completed**

**Type of well**

**Equipment used**

**Water Use**

- Domestic
- Municipal
- Stock
- Irrigation
- Industrial
- Drainage
- Other
- Garden/Lawn

**Describe**

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.

---

**Estimates Annual Withdrawal**

<table>
<thead>
<tr>
<th>Size of Water-bearing Strata</th>
<th>Size and Depth of Cage</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>
</tbody>
</table>

**Static water level**

**Pumping water level**

**Gallons per minute measured**

**Minutes after pumping began**

**Measured from ground level.**

Well developed by **methods** for **hours**.

**Power of Pump**

**Remarks**

Gravel packing, cementing, packers, type of shutoff, etc.

--

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

Driller's Signature

Driller's Address

---

**License No.**

Show exact depth of bottom

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

1. Milo O. Hilstad
   (Name of Appropriator)
   (Address)
   (Town)
   County of McConc
   State of Montana

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

<table>
<thead>
<tr>
<th>W</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td></td>
</tr>
</tbody>
</table>

- **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:** 1938 - Continuously since about 1956, continuously unless water in creek
- **4. The amount of groundwater claimed (in miner's inches or gallons per minute):** 25 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:** Cylinder, pump and engine

<table>
<thead>
<tr>
<th>R.</th>
<th>E.</th>
</tr>
</thead>
</table>

- **7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:** One well was about June 1938 and the other well was about September 1956
- **8. The depth of water table:** 1938 well app. 12 ft., 1956 well app. 30 ft.
- **9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater:** One well, 2 ft., bored hole; 50 ft., deep. One well, 4 ft., sq. hand dug, 20 ft.
- **10. The estimated amount of groundwater withdrawn each year:** 800,000 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 aware of any

Signature of Owner: Milo O. Hilstad
Date: April 9, 1968

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.
133836

Water Well Log #663
State of Montana
County of McCone

Office of Clerk and Recorder.

Filed this 6th day of
April, A.D., 1968
at 9 o'clock A.M.

Helen L. Paterson
By Alice E. Hallinan
Deputy

Fee, $2.00
**STATE OF MONTANA**
**ADMINISTRATOR OF GROUNDWATER CODE**
**MONTANA WATER RESOURCES BOARD**

**NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL**

Developed after January 1, 1962

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

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, last copy to be retained by driller. Please answer all questions. If not applicable, so state, otherwise the form may be returned.

**Owner:** Glen F. or Doris S. Walker

**Address:** Circle, Mont.

**Date well started:** 2-1-73

**Completed:** 2-3-73

**Type of well:** Drilled

**Equipment used:** Churn Drill

**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 Weight of Casing</th>
<th>Rods</th>
<th>Feet</th>
<th>KIND</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>5&quot;</td>
<td>+1</td>
<td>90</td>
<td>Plastic</td>
<td>79</td>
<td>90</td>
</tr>
</tbody>
</table>

**PERFORATIONS**

Static water level .... 20 4 ft.

Pumping water level .......... 32 ft.

at ........gallons per minute, measured ....... minutes after pumping began.

*Measured from ground level.

Well developed by Nailing for ........ hours.

Power .......... Pump .......... HP

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

---

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

---

**Driller's Signature:** Daniel H. Haggard

**Driller's Address:** Lindley, Mont.

**LICENSE NO.** 13

---

**INORGANIC SALTS:**

- Yellow Clay
- Clay
- Lime Clay
- Rock
- Clay
- Grey Sand 220 15 GPH

---

**Show exact depth of bottom**

---

**52710**
DOC. NO. 141101
WATER WELL LOG FILE NO. 725

GLEN F. OR DORIS E. WALLER

TO
THE PUBLIC
State of Montana
County of McCone

Office of Clerk and Recorder.
Filed this 19th day of March, 1973, A.D.
at 3:40 o'clock P. M.

Secretary

By

Fee: $2.00

Notary Public

Deputy
# Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. **Glenn Haller**
   - Name of Appropriator
   - Address
   - Town
   - County
   - State

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

<table>
<thead>
<tr>
<th>N</th>
<th>E</th>
<th>S</th>
<th>W</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

2. The beneficial use on which the claim is based: Household, irrigation, and livestock

3. Date or approximate date of earliest beneficial use, and how continuous the use has been: 1940 continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 20 gpm a 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: irrigate garden 5/6 18 48

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1940

8. The depth of water table: 70 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: 85 ft dug

10. The estimated amount of groundwater withdrawn each year: 100,000 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: not available

Signature of Owner: **Glenn Haller**

Date: Dec 26, 1963

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology; and quadruplicate for the Appropriator.
Doc. No. 127103

Water Well Log File No. 252
Glen Weller

TO

The Public

State Of Montana )
County of Missoula )

OFFICE OF COUNTY CLERK & RECORDER

Filed this 27th day of December, 1963
A. D. at 11:15 A. M.

[Signature]
County Clerk

Fee: $2.00
Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater
Owner: Glenn Haller
Address: Circle, Mont.

Contractor (if any)
Address of Contractor

Date Started
Date Completed

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

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

Signature of Owner

Date

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

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.
127102.

To Whom It May Concern

G. A. Body

and

The Public

State of Montana

County of Missoula

OFFICE OF COUNTY CLERK

Filed this 27th day of December, 1923, A. D., at 11:10 A. M.

[Signature]

County Clerk

Fee $2.00
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Robert C. Mothershead, of Brockway, County of McLean, 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 is Stack Water.

3. Date or approximate date of earliest beneficial use, and how continuous the use has been. 1960 and each year.

4. The amount of groundwater claimed (gallons or per minute). 10 or 12 for 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 is Pump and Windmill.

7. The date of commencement and completion of the construction of the well, walls, or other works for withdrawal of groundwater is in my knowledge in fall of 1960.

8. The depth of water table is 20 ft. A.P.D.

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 is Stackwater, Well 24, Casing 228 ft. deep.

10. The estimated amount of groundwater withdrawn each year is 200,000 gals.

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: Robert C. Mothershead
Date: 12/23/63

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

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

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

36269
127034
Water Well Log # 293

State of Montana
County of Missoula
Office of Clerk and Recorder.

Filed this 23rd day of December A.D. 19-63
u 11 o'clock P.M.


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. FLOYD E. QUICK, INC. of CIRCLE
   (Name of Appropriator)
   (Address) (Town)
   County of McCONE 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: 1961

   4. The amount of groundwater claimed (in miner’s inches or gallons per minute): 10,000 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: Nov. 21, 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.
WATER WELL LOG # 253
State of Montana
County of

Office of Clerk and Recorder.
Filed on the 29th day of November A.D. 1963
At 6:50 P.M.

Clerk and Recorder

By

Fees $2.00
 Declaration of Vested Groundwater Rights  
(Under Chapter 237, Montana Session Laws, 1961)  

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER  

Declaration of Vested Groundwater Rights  

(Name of Appropriator)  
(Address)  
(Town)  

County of MONTHA  

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

1. SW 1/4 Sec. 19 T. 18 R. 48  
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.  

Livestock Water  

3. Date of earliest beneficial use and how continuous the use has been.  

1959  

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

50,000 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.  

40 acres  

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

Stock Pump  

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

Nov. 1959  

8. The depth of water table.  

115’  

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

Depth 115’  

Size Casing 4”  

10. The estimated amount of groundwater withdrawn each year.  

15,000 gallons  

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

Log 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 Nov. 24, 1963  

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

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

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

Owner: Edward and George Held. Address: Brookway, Montana

Driller: Albert Brosn. Address: Brookway, Montana

Date of Notice of Appropriation of Groundwater: Not needed in '61

Date well started: December 27, 1961. Date Completed: Jan. 7, 1962

Type of well: Drilled. Equipment Used: Churn, drilled

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

"33 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>Site of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>From</th>
<th>To</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes Water Strata</td>
<td>7 in.</td>
<td>6 in. Top</td>
<td>17</td>
<td>Slots in 58</td>
</tr>
<tr>
<td></td>
<td>4 in.</td>
<td>17</td>
<td>88</td>
<td>casing 73</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 5 ft. from the top of feet.

Shut-in Pressure for Flowing Well: Not a flowing well.

Pumping Water Level: 65 feet at 13 gal. per minute.

Discharge in gal. per min. of flowing well: Not a flowing well.

How Tested: Bailer tested. Length of Test: 4 hour.

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) Gravel packed.

Water vein

Driller's License Number: 45

Driller's Signature: Albert Brosn.

T.18 N R.48

County: McCone

Received: Dec 19 1963

State of Montana

Administrator of Groundwater. OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

(Elev. above sea level 2690)

5 Yellow loam
12 Quick sand
22 Dark sandy loam
32 Gray sand
59 Gray loam
65 Coal
77 Gray loam
80 Water sand
88 Blue clay

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

Show exact depth of bottom.

Draw this to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the School of Mines Appraiser.

9-1-0 4
Water Well Log # 283.

ESTATE OF: Montana

Capacity: 426.5 Cubic Feet per Minute

Order of Clerk and Recorder:

Received this 13th day of December A.D. 1961

at 3:10 o'clock, P.M.

By: $2.00

Dwight Sig. Deed
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

Warner D. Johnson of Broadway, Montana

County of McLean

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: Drinking Water

3. Date or approximate date of earliest beneficial use: 1952

4. The amount of groundwater claimed (in miner's inches or gallons per minute): Never Pumps Dry

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1952

8. The depth of water table: 26 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: 40 deep

10. The estimated amount of groundwater withdrawn each year: Ample for unlimited Number of Livestock

11. The log of formations encountered in the drilling of each well if available: Clay To Water Bearing 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:

Signature of Owner: Warner D. Johnson
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; Tripliate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriate.
STATE OF NEVADA

COUNTY OF MINES

OFFICE OF COUNTY CLERK & RECORDER

Filed this 2nd day of Jan., 1969 A.D.
at 8:27 o'clock a.m.

WATER WELL 100 FILE NO. 596

TILED JON 2ND DAY OF JAN., 1969 A.D.

TO

WATER WELL 100 FILE NO. 596

WATER WELL 100 FILE NO. 596

DOC. NO. 122897
Form No. 18
8-60
T. 18 R. 40
County

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED
Oct 20, 1961

WATER WELL LOG
STATE ENGINEER

Owner Bob M. Morehead
Address Brockway, Montana

Driller Albert & Edward Frost
Address Brockway, Montana

Date Started September 21, 1961
Date Completed Sept. 29, 1961

Location: Sec. 17 T. 18 R. 40 ½ sec. NW.

Type of well Drilled
Equipment used Churn drilled

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

Casing: Top ft. to 122 ft. Type Steel Size 4 in.
Casing: Intermediate □ ft. to □ ft. Type □ Size □
Casing: Bottom □ ft. to □ ft. Type □ Size □

Perforated or Screened: Ft. 190 to ft. 200 □. Ft. 215 to ft. 225 □

Type of screen or perforations □ Slots in casing □

Static Water level, for non-flowing well: 76 feet from the top □ feet.
Shut-in pressure, for flowing well: □ lb./sq. in. on: □

Pumping water level 130 feet at 10 gal. per min. □

How tested: □ Hour
Length of test □ hour

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

Gravel packed water vein

(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>Top</td>
<td>16</td>
<td>20</td>
<td>Sandy loam</td>
</tr>
<tr>
<td>16</td>
<td>20</td>
<td>32</td>
<td>Coal</td>
</tr>
<tr>
<td>32</td>
<td>65</td>
<td></td>
<td>Sandy loam</td>
</tr>
<tr>
<td>65</td>
<td>87</td>
<td></td>
<td>Blue clay</td>
</tr>
<tr>
<td>87</td>
<td>92</td>
<td></td>
<td>Coal</td>
</tr>
<tr>
<td>92</td>
<td>128</td>
<td></td>
<td>Blue clay</td>
</tr>
<tr>
<td>128</td>
<td>162</td>
<td></td>
<td>Coal</td>
</tr>
<tr>
<td>162</td>
<td>192</td>
<td></td>
<td>Blue clay</td>
</tr>
<tr>
<td>192</td>
<td>192</td>
<td>200</td>
<td>Water sand</td>
</tr>
<tr>
<td>200</td>
<td>218</td>
<td></td>
<td>Coal</td>
</tr>
<tr>
<td>218</td>
<td>228</td>
<td></td>
<td>Water sand</td>
</tr>
<tr>
<td>228</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Log of Well**

**WATER WELL LOG NO. 79**

**DOC. No. 1222812**

**Certified By:**

**County of:**

**Filed this 18th day of October, A.D. 1961**

**SIGNED:**

**Notary Public**
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Robert C. Mothershead
of
Brockway

County of McLeod
State of Montana

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

1. Name of Appropriator
2. The beneficial use on which the claim is based: STOCKWELL
   and HOUSE USE

3. Date or approximate date of earliest beneficial use; and how continuous the use has been.
   APPROX. 1940
   CONTINUOUS USE SINCE

4. The amount of groundwater claimed (in miner's inches or gallons per minute).
   529.5
   M.G.P.M.

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:
   PRESSURE SYSTEM

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.
   APPROX. 1940

8. The depth of water table.
   16 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 by
   D.D.
   DRILL.
   Casing!

10. The estimated amount of groundwater withdrawn each year.
    300,000 CUB. FT.

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
Robert C. Mothershead
Date: 12/23/63

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

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

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

36270
127035

Water Well Log # 299.

Dated at Kennewick
County of Wascon
Office of Clerk and Recorder.
Filed this 23rd day of
December A.D. 1953
at 2:10 P.M.

[Signature]

[Signature]

Pr. $2.00
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

Warner D. Johnson, of Brockway, Mont.

County of McCona

State of Montana

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

1. Name of Appropriator: Warner D. Johnson
   Address: Brockway, Mont.

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1943 to Present

4. The amount of groundwater claimed (in miner's inches or gallons per minute): Never Pumped Dry

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: Pump with gasoline motor

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: 66 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: 89 ft deep

10. The estimated amount of groundwater withdrawn each year: Sufficient for unlimited number of livestock

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

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

Signature of Owner: Warner D. Johnson

Date: Dec 30, 1963

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

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

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

File No. 823

Duplicate

Received

JAN 16 1964
Doc. No. 127294

Water well Log 577

Warner D. Johnson

TO

The Public

State of Montana
County of Meade

OFFICE OF COUNTY CLERK & RECORDER

Filed this 2nd day of January, 1960, A. D.,
at 8:24 A. M.

[Signature]
County Clerk

Fee: $2.00
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Warner D. Johnson, of Brockway, Mont.

County of

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

2. The date or approximate date of earliest beneficial use; and how continuous the use has been: 1959 to Present Time

3. The amount of groundwater claimed (in miner's inches or gallons per minute): Never pumped dry

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

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

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

7. The depth of water table: 36 ft

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

9. The estimated amount of groundwater withdrawn each year:

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

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

Signature of Owner: Warner D. Johnson

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.

36503