## Montana Bureau of Mines and Geology

### Water Well Log

**Owner:** Ernest Hanson  
**Address:** Malta, Montana  
**Driller:** George O. Bringley  
**Address:** Lewistown, Montana  

**Date Started:** November 14, 1960  
**Date Completed:** November 27, 1960  

**Location:** Sec. 28 T. 14 R. 69 1/4 sec. 776,774,41

### Water Well Log Details

<table>
<thead>
<tr>
<th>Water Use</th>
<th>Domestic</th>
<th>Municipal</th>
<th>Stock</th>
<th>Irrigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Above Ground</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Casing: 9 ft. to 24 ft. Type</td>
<td>2 1/2 in. Size</td>
<td>4 1/2 in. Galvanized</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Casing: 24 ft. to 36 ft. Type</td>
<td>Size</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Casing: 36 ft. to 48 ft. Type</td>
<td>Size</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Perforated or Screened: From 20 ft. to 24 ft. from 24 ft. to 36 ft.
- Type of screen or perforations:

**Static Water Level:** feet  
**Shut-in Pressure, for Flowing Well:** Approx. 30 lb./sq. in. on. Nov. 17, 1960  
**Pumping Water Level:** feet at gal. per min.

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

---

"(over)"
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>From</th>
<th>To</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>1</td>
<td></td>
<td>Pumice</td>
</tr>
<tr>
<td>1</td>
<td>15</td>
<td></td>
<td>Clay</td>
</tr>
<tr>
<td>15</td>
<td>20</td>
<td></td>
<td>Gravel</td>
</tr>
<tr>
<td>20</td>
<td>26</td>
<td></td>
<td>Sandy clay blue</td>
</tr>
<tr>
<td>26</td>
<td>30</td>
<td></td>
<td>Hard rock</td>
</tr>
<tr>
<td>30</td>
<td>32</td>
<td></td>
<td>Sandy rock</td>
</tr>
<tr>
<td>35</td>
<td>39</td>
<td></td>
<td>Soft blue clay</td>
</tr>
<tr>
<td>39</td>
<td>115</td>
<td></td>
<td>Sandy rock</td>
</tr>
<tr>
<td>115</td>
<td>138</td>
<td></td>
<td>Sandstone water</td>
</tr>
</tbody>
</table>

Log of Well

1911

(Handwritten notes on the right side of the page)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Yard fill</td>
</tr>
<tr>
<td>1</td>
<td>Clay</td>
</tr>
<tr>
<td>35</td>
<td>Sand, gravel</td>
</tr>
<tr>
<td>20</td>
<td>Sandy clay blue</td>
</tr>
<tr>
<td>26</td>
<td>Hard rock</td>
</tr>
<tr>
<td>20</td>
<td>Sandy rock</td>
</tr>
<tr>
<td>49</td>
<td>Soft blue clay</td>
</tr>
<tr>
<td>115</td>
<td>Sandy rock</td>
</tr>
<tr>
<td>115</td>
<td>Sandstone, water</td>
</tr>
</tbody>
</table>

**Log of Well**

1911

1979

[signature] A. W. Melton

[signature] Deputy

County of Polk

[signature] J. B. Noyes

[signature] Recorder

[signature] A. W. Melton

[signature] Deputy

County of Polk
### WATER WELL LOG

**Owner:** Les & Vern Thompson  
**Address:** Minette, Montana

**Driller:** George O. Singley  
**Address:** Lewistown, Montana

**Date Started:** NOV. 25, 1960  
**Date Completed:** DEC. 8, 1960

**Location:** Sec. 80  
**T.:** 14  
**R.:** 29  
**Sec.:** 1/4

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Drilled</th>
<th>Equipment used</th>
<th>Cable Tool</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>(Churn drill, rotary, etc.)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Water use:</th>
<th>Domestic</th>
<th>Municipal</th>
<th>Stock</th>
<th>Irrigation</th>
</tr>
</thead>
</table>

**Above ground:**

<table>
<thead>
<tr>
<th>Casing</th>
<th>ft. to 20 ft.</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
</table>

**Above ground:**

<table>
<thead>
<tr>
<th>Casing</th>
<th>20 ft. to 200 ft.</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Casing</th>
<th>ft.</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
</table>

**Perforated or Screened:**

<table>
<thead>
<tr>
<th>Ft. to Ft.</th>
<th>Ft. to Ft.</th>
</tr>
</thead>
</table>

**Type of screen or perforations:**

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

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

<table>
<thead>
<tr>
<th>15 lb./sq. in.</th>
<th>Dec. 31, 1960</th>
</tr>
</thead>
</table>

**Pumping water level:**

<table>
<thead>
<tr>
<th>feet at</th>
<th>gal. per min.</th>
</tr>
</thead>
</table>

**Remarks:**

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

Sealed at bottom of hole with Packer...  
Gravel packed 100=153  
Flowed 6 gpm.

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>To</td>
</tr>
<tr>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td>10</td>
<td>20</td>
</tr>
<tr>
<td>20</td>
<td>35</td>
</tr>
<tr>
<td>35</td>
<td>50</td>
</tr>
<tr>
<td>50</td>
<td>100</td>
</tr>
<tr>
<td>100</td>
<td>105</td>
</tr>
<tr>
<td>105</td>
<td>118</td>
</tr>
<tr>
<td>118</td>
<td>153</td>
</tr>
</tbody>
</table>
**Notice of Completion of Groundwater Appropriation by Means of Well**

*Developed after January 1, 1962* (Under Chapter 237 Montana Session Laws, 1961, as amended)

**Owner:** Thompson Bros.  
**Address:** Hamilton, Montana

**Driller:** George O. Slagle  
**Address:** Lewistown, Montana

**Date of Notice of appropriation of groundwater:** March 6, 1973  
**Date well started:** March 6, 1973  
**Date completed:** March 7, 1973

**Type of well drilled:** Drilled (Dug, driven, bored or drilled)  
**Equipment used:** Rotary (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 in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7-7/8</td>
<td></td>
<td>0</td>
<td>20</td>
</tr>
<tr>
<td>5-5/8</td>
<td></td>
<td>20</td>
<td>60</td>
</tr>
<tr>
<td>5-5/8</td>
<td></td>
<td>60</td>
<td>140</td>
</tr>
<tr>
<td>5-5/8 00</td>
<td>Above 1</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Plastic</td>
<td>Above 1</td>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>

**Perforations**

<table>
<thead>
<tr>
<th>Size</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PVC</td>
<td>Above 1</td>
<td>10</td>
</tr>
</tbody>
</table>

**Static Water Level for non-flowing well:** None.  
**Shut-in Pressure for Flowing Well:** None.

**Pumping Water Level:** None.  
**Rate at:** 0 gal. per minute.

**Discharge in gal. per min. of flowing well:** 6 gal.

**How Tested:** Measured with bucket.  
**Length of Test:** 15 hrs.

**Remarks:** (Gravel packing, cementing, pass.)  
**Wall cemented:**

(Continue on reverse side)

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

---

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

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

Driller’s License Number:  
Driller's Signature: [Signature]

[Driller’s Signature]
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION 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)

Owner: Kenneth Danischen
Address: Minnet, Montana

Driller: George O. Singles
Address: Lewistown, Montana

Date of Notice of appropriation of groundwater: None

Date well started: Aug. 1, 1969
Date completed: Aug. 2, 1969

Type of well: Drilled
Equipment used: Rotary

Water use: Domestic □ Municipal □ Stock □ Irrigation □ 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.

### Size of Drilled Hole

<table>
<thead>
<tr>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>7-7/8</td>
<td>0</td>
<td>21</td>
<td></td>
</tr>
<tr>
<td>6-3/4</td>
<td>21</td>
<td>50</td>
<td>151</td>
</tr>
<tr>
<td>200 tests</td>
<td></td>
<td></td>
<td>5/16 holes</td>
</tr>
<tr>
<td>2&quot; E.I. ground</td>
<td>137</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 3/32 E.I.</td>
<td>0</td>
<td>21</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well

None

Shut-in Pressure for flowing well

19 psig

Pumping Water Level

None

Discharge in gal. per min. of flowing well

20 gpm

How Tested: Measured

Length of Test: 1 hr.

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

Sealed with 10 socks cement

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

| Sec 20 | N 74 W | T 14 N |

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 will be returned.

Driller’s License Number

Driller’s Signature

54/733
STATE OF MONTANA,
County of Petroleum.

Filed JUN 29 1973
at 3:30 o'clock P.M.

Deputy

Director of Records.
STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

STATE WATER CONSERVATION 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)

Owner: Kenneth Dameschen
Address: Lewistown, Montana

Date of Notice of appropriation of groundwater: None

Date well started: April 24, 1969
Date completed: April 24, 1969

Type of well: Drilled
Equipment used: 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 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: 0 feet
Shut-in Pressure for Flowing Well: 15 psi
Pumping Water Level: 0 feet at 0 gal. per minute.
Discharge in gal. per min. of flowing well: 25 gpm
How Tested: Flow measured
Length of Test: 1 hr
Remarks: (Gravel packing, cementing, packers, type of shutdown) Packers and cement used to seal

Show exact depth of bottom.

Driller’s License Number
Driller’s Signature
Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962

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

Owner: Kenneth Damchen
Address: Winnett, Montana

Driller: George O. Singley
Address: Lewistown, Montana

Date of Notice of appropriation of groundwater: None
Date well started: June 6, 1969
Date completed: June 14, 1969

Type of well: Drilled
Equipment used: Rotary
(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 (Feet)</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well: None

Shut-in Pressure for Flowing Well: 100 psi

Pumping Water Level: None

Discharge in gal. per min. of flowing well: 2

How Tested: Measured

Length of Test: 1 hr.

Remarks: (Gravel packing, cementing, packers, type of shutoff) Sealed at 190 ft. with packer and cement

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

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 will be returned.

Driller's License Number

Driller's Signature

54732
STATE OF MONTANA.
County of Petroleum.
Filed JUN 29 1973 19
at 1:30 o'clock P.M.

Diane Barnes
Director of Records.

Deputy
<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>9</td>
<td>Shaw Bud</td>
<td>SEW 2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
DRILLER'S LOG

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

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

Developed after January 1, 1962

(Revised 1969 County INST. OF MONTANA)

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

MONTANA WATER RESOURCES BOARD

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

<table>
<thead>
<tr>
<th>Top of Ground</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>30</td>
<td>1734</td>
</tr>
</tbody>
</table>

- 1971 gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

<table>
<thead>
<tr>
<th>Size of Dipped Hole</th>
<th>Size and Weight of Caisson</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>144</td>
<td>8 3/4&quot;</td>
<td>0</td>
<td>30</td>
<td>Regular</td>
</tr>
<tr>
<td>64</td>
<td>4 3/8&quot;</td>
<td>0</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>7 7/8</td>
<td>2 3/8&quot;</td>
<td>1829</td>
<td>1805</td>
<td></td>
</tr>
</tbody>
</table>

- Static water level: ft.
- Pumping water level: ft.
- At gallons per minute measured minutes after pumping began.
- Measured from ground level, well developed by 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.**

**LICENSE NO. 26**

Driller's Signature: M. Illman
Driller's Address: ___________
<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>3</td>
<td>Lanceley Joe F.</td>
<td>GWH</td>
<td>22376</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Alison James</td>
<td>WEL 149</td>
<td>19393</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Lanceley Joe F.</td>
<td>GWH</td>
<td>22385</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>&quot;</td>
<td>&quot;</td>
<td>22387</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>Iverson David</td>
<td>GWH 13</td>
<td>20413</td>
<td></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. Joe F. Lancelle, of Winnett,
   (Name of Appropriator) (Address) (Town)
   County of Petroleum, 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: Stockwater & Irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1/5/56 - Continuous Use

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

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:
   N2/4 NW1/4 Sec. 3, T. 13 N, R. 25 E
   Joe F. Lancelle, owner

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 195/56 to 10/31/56

8. The depth of water table: 1220 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: 1220 feet at 3" casing

10. The estimated amount of groundwater withdrawn each year: 20 gallons per minute

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

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: None

Signature of Owner: [Signature]
Date: December 30, 1963

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

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

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

<table>
<thead>
<tr>
<th>Field</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner</td>
<td>James Glenn</td>
</tr>
<tr>
<td>Address</td>
<td>Grass Range, Montana</td>
</tr>
<tr>
<td>Driller</td>
<td>W. L. Livingston, Estate</td>
</tr>
<tr>
<td>Address</td>
<td>Glendive, Montana</td>
</tr>
<tr>
<td>Date Started</td>
<td>February 21, 1961</td>
</tr>
<tr>
<td>Date Completed</td>
<td>March 10, 1961</td>
</tr>
<tr>
<td>Location Sec. X T R 13 25 1/4 sec</td>
<td></td>
</tr>
<tr>
<td>Type of well</td>
<td>Drilled</td>
</tr>
<tr>
<td>Equipment used</td>
<td>Rotary</td>
</tr>
<tr>
<td>Water use</td>
<td>Stock</td>
</tr>
<tr>
<td>Casing: ft to ft</td>
<td>1038.13</td>
</tr>
<tr>
<td>Type of well</td>
<td>Drilled</td>
</tr>
<tr>
<td>Equipment used</td>
<td>Rotary</td>
</tr>
<tr>
<td>Water use</td>
<td>Stock</td>
</tr>
<tr>
<td>Casing: ft to ft</td>
<td></td>
</tr>
<tr>
<td>Perforated or Screened: Ft to Ft</td>
<td></td>
</tr>
<tr>
<td>Type of screen or perforations</td>
<td></td>
</tr>
<tr>
<td>Static Water level, for non-flowing well</td>
<td></td>
</tr>
<tr>
<td>Shut-in pressure, for flowing well</td>
<td></td>
</tr>
<tr>
<td>Pumping water level, feet at</td>
<td></td>
</tr>
<tr>
<td>How tested</td>
<td></td>
</tr>
<tr>
<td>Length of test</td>
<td></td>
</tr>
</tbody>
</table>
| Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off) | Cemented with 65 sacks type 1 cement  
Artificial well flowing 50 gallons per minute |
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 25</td>
<td>Top soil sand</td>
</tr>
<tr>
<td>25 - 35</td>
<td>Gravel</td>
</tr>
<tr>
<td>35 - 110</td>
<td>Hard black shale</td>
</tr>
<tr>
<td>110 - 210</td>
<td>Shale &amp; sandy shale—some bentonite</td>
</tr>
<tr>
<td>210 - 318</td>
<td>Shale and bentonite streaks</td>
</tr>
<tr>
<td>318 - 543</td>
<td>Shale, clay and bentonite</td>
</tr>
<tr>
<td>543 - 600</td>
<td>Black shale and sticky clay</td>
</tr>
<tr>
<td>600 - 625</td>
<td>Black brittle shale and sandy shale</td>
</tr>
<tr>
<td>625 - 660</td>
<td>Shale, grey clay and sandy shale</td>
</tr>
<tr>
<td>660 - 700</td>
<td>Hard siltstone, shale, some clay</td>
</tr>
<tr>
<td>700 - 716</td>
<td>Hard sandy shale</td>
</tr>
<tr>
<td>716 - 725</td>
<td>Sand—medium-fine, light grey</td>
</tr>
<tr>
<td>725 - 750</td>
<td>Medium soft fine sand</td>
</tr>
<tr>
<td>750 - 771</td>
<td>Black brittle shale, some sand and streaks of bentonite</td>
</tr>
<tr>
<td>771 - 782</td>
<td>Red Clay, black shale, hard sandy lime</td>
</tr>
<tr>
<td>782 - 804</td>
<td>Red and black shale, red clay, hard sand</td>
</tr>
<tr>
<td>804 - 840</td>
<td>Red clay, sandy shale, streaks of limy sand</td>
</tr>
<tr>
<td>840 - 850</td>
<td>Red clay, white</td>
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<tr>
<td>850 - 880</td>
<td>Red and grey clay, black shale</td>
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<tr>
<td>880 - 900</td>
<td>White mushy clay, some shale</td>
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<tr>
<td>900 - 915</td>
<td>Red and black shale, clay, little white clay</td>
</tr>
<tr>
<td>915 - 930</td>
<td>White mushy clay, white-medium-hard sand</td>
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<tr>
<td>930 - 975</td>
<td>White Clay and sand</td>
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<td>975 - 980</td>
<td>Medium hard fine white sand, white mushy clay</td>
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<tr>
<td>980 - 990</td>
<td>Soft fine white sand, white mushy clay</td>
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<tr>
<td>990 - 1017</td>
<td>Soft clay, red, white and black shale</td>
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<tr>
<td>1017 - 1040</td>
<td>Hard sand and white mushy clay</td>
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<tr>
<td>1040 - 1053</td>
<td>Limy sand, grey, white, and green shale</td>
</tr>
<tr>
<td>1053 - 1058</td>
<td>Hard sand and clay</td>
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<tr>
<td>1058 - 1062</td>
<td>Hard and soft sand</td>
</tr>
<tr>
<td>1062 - 1070</td>
<td>Sand</td>
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<td>1070 - 1074</td>
<td>Hard light limy shale</td>
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<td>1074 - 1120</td>
<td>Black shale</td>
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<tr>
<td>1120 - 1150</td>
<td>Fine sand</td>
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<tr>
<td>1150 - 1158</td>
<td>Darker, soft fine sand</td>
</tr>
<tr>
<td>1158 - 1160</td>
<td>Clay</td>
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</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. Joe F. Lancelle, (Name of Appropriator)
   of Winnett, (Address)
   County of Petroleum, 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:
   Stockwater & Irrigation

3. Date or approximate date of earliest beneficial use, and how continuous the use has been:
   November 15, 1950

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

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof:
   NE\'1\' NE\'1\' Sec. 10 - T.13 R. 25
   Joe F. Lancelle, owner

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
   Nov. 15, 1950

8. The depth of water table:
   20 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater:
   20' of 6" Casing

10. The estimated amount of groundwater withdrawn each year:
    2,500,000 gallons

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

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:
    None

Signature of Owner: Joe F. Lancelle
Date: December 30, 1963

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

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

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

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

JAN 3 1963

STATE ENGINEER

Joe F. Lancelle, of Winnet
County of Petroleum, 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: Household, Stockwater, Irrigation

2. Date or approximate date of earliest beneficial use; and how continuous the use has been: Sept 18, 1850 - Continuous Use

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

4. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof: Sweetwater Section 10: T13N: R25E

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

6. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Sept 18, 1850 - Oct 18, 1850

7. The estimated amount of groundwater withdrawn each year: 15 gal. per minute

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

9. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record: None

Signature of Owner: 
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.
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

Joe E. Lancelle, et al.

Petroleum

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:
   Stockwater & Irrigation

3. Date or approximate date of earliest beneficial use: 
   1915
   Continuous

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

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof:
   Winnetu
   Pet done Section 11-13
   Joe Lancelle - Owner

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal:
   Windmill, pump-back on engine at Nuwensey Section 11-13

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1915

8. The depth of water table: 12 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:
   Hand dug well - 34' wide - 12' deep
   Rock surged

10. The estimated amount of groundwater withdrawn each year: 4,320,000 gal. per year

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

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:
   None

Signature of Owner: Joe Lancelle

December 30, 1963

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

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

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

Notice of Completion of Groundwater Appropriation Without Well
(Under Chapter 237 Montana Session Laws, 1963)

Date of Appropriation of Groundwater: May 1, 1963
Owner: David Luser
Address: Roundup
Contractor (if any): None
Address of Contractor: 
Date Started: April 20
Date Completed: May 1, 1963

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. 
By the use of a pit dam dug down to water level and opened out.

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. 10 gallons per minute continually and used thus.

Signature of Owner: David Luser
Date: Dec. 31, 1963

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

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.
<table>
<thead>
<tr>
<th>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>Roundup Petroleum</td>
<td>G.W.1</td>
<td>20160</td>
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<tr>
<td>1</td>
<td>1</td>
<td>G.W.1</td>
<td>713</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Nebraska Feeding Co.</td>
<td>G.W.H</td>
<td>20167</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>King Joe C.</td>
<td>Release</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>Nebraska Feeding Co.</td>
<td>G.W.H</td>
<td>20168</td>
<td></td>
</tr>
</tbody>
</table>
Notice of Appropriation of Groundwater
(Under Chapter 237, Montana Session Laws of 1961)

1. I, [Name of Appropriator], of [Town], [State], County of [County], State of Montana, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.

2. The beneficial use to which water is to be applied in:

   SE 1/4 NE 1/4 Sec. 1, T. 13 R. 26
   (describe lands to be benefited, if for irrigation)

3. The rate of use in gallons per minute or miner's inches of groundwater claimed:

   30 gallons per minute

4. The annual period (inclusive dates) of intended use:

   January 1 to December 31

5. The probable or intended date of first beneficial use:

   April 30, 1962

6. The probable or intended date of commencement and completion of the well* or wells*:

   April 14, 1962

7. The location, type, size and depth of well or wells contemplated:

   SE 1/4 NE 1/4 Section 1, T. 13 R. 26

8. The probable or estimated depth of the water table or artesian aquifer:

   1900

9. Name, address and license number of the driller engaged:

   L.H. Dilling, Whitefish, Montana, License No. 1004

10. Give such other similar information as may be useful in carrying out the policy of this act:

    [Handwritten note: Tank for irrigation March 1 to November 1, the rest of the year for stock and domestic]

Signature of Appropriator:

[Signature]

Date: April 15, 1962

* As defined in the Code Sec. 1 (e) "Well" means any artificial opening or excavation in the ground, however made, by which groundwater can be obtained or through which it flows under natural pressures or is artificially withdrawn.

Three copies of this notice are to be filed with 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)

<table>
<thead>
<tr>
<th>Owner: Robert A. Owen</th>
<th>Address: Winnett, Montana</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller: E.L. Drilling</td>
<td>Address: Winnett, Montana</td>
</tr>
</tbody>
</table>

Date of Notice of Appropriation of Groundwater: April 25, 1962
Date Well Started: 3/15/62
Date Completed: 4/14/62
Type of Well: Drilled
Equipment Used: Rotary
(show, drill, rotary or other)

Water Use: Domestic ☑
Industrial ☐
Municipal ☐
Other ☐
Irrigation ☑
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, character and thickness of water-bearing strata and height to which water rises in the well.

### Table: Well Data

<table>
<thead>
<tr>
<th>Size of Dilled Hole</th>
<th>Size and Weight of casing</th>
<th>From</th>
<th>To</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 x 8</td>
<td>5½ o.d.</td>
<td>0</td>
<td>1700</td>
<td>slot 1508, 1675</td>
</tr>
</tbody>
</table>

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

**Shut-in Pressure for Flowing Well**: 70 p.s.i.

**Pumping Water Level**: feet at gal. per minute.

**Discharge in gal. per min. of flowing well**: 14 g.p.m.

**How Tested**: 
Length of Test:

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation): 20 acres

**Larkin Pic 21 casing anchor packer set at 1508**

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 Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.
STATE OF MONTANA,
County of Petroleum.

Filed APR 23, 1962
at 3:00 o'clock P.M.

Velma B. Meiten
County Recorder.

[Signature]
Deputy.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Nebraska Feeding Company
   (Name of Appropriator)
   (Address)
   (Town)
   County of Treasure
   State of Montana
   NEBRASKA

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
   Nov. 6, 1953
   used each year since

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

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof not applicable

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
   Pump run by gas motor
   location SW 1/4 SW 1/2 Sec. 35, T. 13 N.R. 26 W

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
   construction started Nov. 2, 1953 and completed Nov. 5, 1953

8. The depth of water table
   water rises 2 ft. to 12 ft. from top of ground

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
   8-in. casing down 20 ft.; well is 20 ft. deep.

10. The estimated amount of groundwater withdrawn each year
    450,000 gal.

11. The log of formations encountered in the drilling of each well if available
    0-20 ft. sand and gravel
    20-29 ft. gray shale

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record
    This well is number 2 as listed on map of Nebraska Feeding Company Ranch, possessed by ranch foreman.

    Signature of Owner: Nebraska Feeding Company
    Date: June 22, 1962

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology and quadruplicate for the Appropriator.
OIL AND GAS CONSERVATION COMMISSION
OF THE STATE OF MONTANA

RELEASE AGREEMENT

KNOW ALL MEN BY THESE PRESENTS, that I, Joe C. King, of the County of Petroleum in the State of Montana, am the owner of the hereinafter described land upon which a well for oil or gas was drilled, to-wit:

Operator: The Superior Oil Company

Lease Name: State "A"

Well No.: 1 Sec. 7, Twp. 13N, Rge. 26E

The well is located 300 feet S of the north line and 606 feet E of the west line.

That, in accordance with Regulation 233.6, Order No. 1-1, November 30, 1953, I do hereby notify the Oil and Gas Conservation Commission of the State of Montana of my desire to utilize said well as a fresh water well; and, that if such utilization is approved, I do hereby release and discharge the operator hereinabove named from any further work or responsibility in relation to the plugging of said well.

WITNESS my hand and seal this 17 day of July 1967.

Landowner: Joe C. King (L.S.)

Address: P. O. Box 177

Winnett, Montana

IN THE PRESENCE OF:

Martin J. Baglio
Address: Winnett, Montana

Helen E. Wight
Address: Winnett, Montana

APPROVED BY:

Oil and Gas Conservation Commission

Lee O. Lowndes
Petroleum Engineer or Executive Secretary

Dated: July 24, 1967
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Nebraska Feeding Company of Omaha, Nebraska
   (Name of Appropriator)
   (Address)
   (Town)
   (County)
   (State)

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
   Nov. 15, 1931
   Used each year since

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

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
   not applicable

6. The means of withdrawing such water from the ground and the
   map of Nebraska Feeding Company Ranch possessed by ranch foreman

7. The date of commencement and completion of the construction of the well, wells or other works for withdrawal of groundwater
   construction started Nov. 12, 1931, completed Nov. 14, 1931

8. The depth of water table
   water rises 7 feet from top of ground

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
   6 in., casing down 20 feet, Well in 40 ft. depths

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

11. The log of formations encountered in the drilling of each well if available
    Osb. ft. sand and gravel
    20 to 40 ft. gray shales

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
    This is well number 1 as listed on map of Nebraska Feeding Company Ranch possessed by ranch foreman

Signature of Owner: [Signature]
Date: June 22, 1962

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

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

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

1921
<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>3</td>
<td>Fraser Rancher &amp; Levee</td>
<td>3-Cc 3</td>
<td>27879</td>
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<td>3-Cc 3</td>
<td>27865</td>
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<td>22</td>
<td></td>
<td>3-Cc 3</td>
<td>27866</td>
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</tbody>
</table>
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL
Developed After January 1, 1962
(Under Chapter 237, Montana Session Laws, 1961, as amended)

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 may be returned.

---

Owner: [Name]
Address: [Address]

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

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

---

1. Describe means of obtaining groundwater (as by sub-irrigation, developed spring, drains, etc.)

2. Means of withdrawing water (gravity, pump, canal, etc.)

3. Depth of water table

4. Use of the water...

5. Amount of groundwater claimed (in miner's inches or gallons per minute)

6. If used for irrigation, give number of acres and description of land

7. Estimate amount of water used each year

8. Months of year spring flows

---

Signature of Owner: [Signature]
Date: [Date]
STATE OF MONTANA
County of Petroleum

Filed JUN 29 1973 10
at 11:50 o'clock A.M.

Oscar Bilko
Director of Records

Deputy
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

Developed After January 1, 1962
(Under Chapter 237, Montana Session Laws, 1961, as amended)

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 may be returned.

For Administrator's Use

Owner

File

GW 1

Date Started

Date Completed

1. Describe means of obtaining groundwater (as by sub-irrigation, developed spring, drains, etc.)

2. Means of withdrawing water (gravity, pump, canal, etc.)

3. Depth of water table

4. Use of the water

5. Amount of groundwater claimed (in miner's inches or gallons per minute)

6. If used for irrigation, give number of acres and description of land

7. Estimate amount of water used each year

8. Months of year spring flows

Signature of Owner

Date

54570
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Owner: FRASER LAND & LIVESTOCK CO INC. — Box 1352-Billings

Contractor (if any) — R. R. Fraser

Address of Contractor — Box 1352-Billings, Montana

Date Started — 1946. Date Completed — continuous maintenance

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

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.

Springs have continuous flow — can't be measured when run off water is flowing in creek. (These springs are predominately in the creek bed in sections 8, 9, 10 & 17)

Signature of Owner: FRASER LAND & LIVESTOCK CO INC.

Date: 12/31/63

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

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

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

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

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

STATE ENGINEER

FRASER LAND & LIVESTOCK CO., INC., of Box 1352, Billings, Montana
(Name of Appropriator)
(County)
(State)
(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
stock water & domestic

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1966

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 28 gallons when pumped

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 driven wells

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1966 & thereafter

8. The depth of water table 25 to 30 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 1/2" driven wells up to 40 feet in depth

10. The estimated amount of groundwater withdrawn each year 36,000 gals

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

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 School of Mines and quadruplicate for the Appropriator.

File No. 256

JAN 3 1965

T 13N R 27S

File No. 256

DUPLICATE

County Petroleum

FRASER LAND & LIVESTOCK CO., INC.

1/2" driven, maintained, and supplemented as needed around the farm buildings located principally in Section 5, but also in Sections 13 and 14.

Signature of Owner

Date 12/31/63

20921
STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

Developed After January 1, 1962

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

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 may be returned.

<table>
<thead>
<tr>
<th>File</th>
</tr>
</thead>
<tbody>
<tr>
<td>27885</td>
</tr>
</tbody>
</table>

For Administrator's Use

Owner: Turner Land & Livestock Co.

Address: Box 1832, Billings, Montana

Contractor (if any): .

Address of Contractor: .

Date Started: 11-10-1961

Date Completed: .

1. Describe means of obtaining groundwater (as by sub-irrigation, developed spring, drains, etc.):

2. Means of withdrawing water (gravity, pump, canal, etc.): Pump

3. Depth of water table: 20'

4. Use of the water: Stock Water

5. Amount of groundwater claimed (in miner's inches or gallons per minute): 25 gal 1 min

6. If used for irrigation, give number of acres and description of land:

7. Estimate amount of water used each year: 100,000 gal

8. Months of year spring flows: 12 months

Signature of Owner: ____________________________

Date: Jan 22, 1972

File: 3rd Quarter

Received: Jul 2, 1973

Count:

Petroleum
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL
Developed After January 1, 1962
(Under Chapter 237, Montana Session Laws, 1961, as amended)

This form to be prepared by contractor (if any), otherwise by the owner.
Three copies of this notice are to be filled 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 may be returned.

<table>
<thead>
<tr>
<th>For Administrator's Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>File: 27886 &amp; 345</td>
</tr>
<tr>
<td>Date Started: 7/1/1973</td>
</tr>
<tr>
<td>Date Completed: 12/31/1973</td>
</tr>
</tbody>
</table>

1. Describe means of obtaining groundwater (as by sub-irrigation, developed spring, drains, etc.):

   
   

2. Means of withdrawing water (gravity, pump, canal, etc.):

   

3. Depth of water table:

   

4. Use of the water:

   

5. Amount of groundwater claimed (in miner's inches or gallons per minute):

   

6. If used for irrigation, give number of acres and description of land:

   

7. Estimate amount of water used each year:

   

8. Months of year spring flows:

   

Signature of Owner: ____________________________

Date: ____________________________

5-45-78
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL
Developed After January 1, 1962
(Under Chapter 237, Montana Session Laws, 1961, as amended)

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 may be returned.

For Administrator's Use

File 2789, 319
June 29, 1978
GW 1

<table>
<thead>
<tr>
<th>For Administrator’s Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner: Fraser Land Survey Co.</td>
</tr>
<tr>
<td>Address: Box 1382, Billings, MT</td>
</tr>
<tr>
<td>Contractor (if any):</td>
</tr>
<tr>
<td>Address of Contractor:</td>
</tr>
<tr>
<td>Date Started:</td>
</tr>
<tr>
<td>Date Completed:</td>
</tr>
</tbody>
</table>

1. Describe means of obtaining groundwater (as by sub-irrigation, developed spring, drains, etc.) Dig well

2. Means of withdrawing water (gravity, pump, canal, etc.) Pump

3. Depth of water table 16

4. Use of the water Stick to Farmstead

5. Amount of groundwater claimed (in miner’s inches or gallons per minute) 110.5 gal B. 10 min

6. If used for irrigation, give number of acres and description of land

7. Estimate amount of water used each year 50,000 gal

8. Months of year spring flows

Signature of Owner: 
Date: 6/8/1978

545-77
### Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. **FRASER LAND & LIVESTOCK CO INC.**, of **Box 1352 BILLINGS, MONTANA**
   - Name of Appropriator: **Fraser Land & Livestock Co Inc.**
   - Address: **Billings, Montana**
   - County: **Petrolia**
   - State: **Montana**
   - Have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: **1946 approximately, continuous use since that time.**

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

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: **Approximately 1946 - several months in process.**

8. The depth of water table: **2800.** *(artesian flow)*

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:
   - **3000 feet deep approximately. 7" casing for 2000 feet, 9" for 1000 feet.**

10. The estimated amount of groundwater withdrawn each year: **One million gallons.**

11. The log of formations encountered in the drilling of each well if available:
   - **Ragel 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:
   - **This well was drilled by Taylor Drilling Co.**

---

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

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

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

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Fraser Land and Livestock Co., Inc.
Owner: R.B. Fraser
Address: Billings, Mont.

Munson Drilling Co., Address: Grass Range, Mont.
Driller:

Date of Notice of appropriation of groundwater: J L y j 5 , 1969

Date well started: July 6, 1969
Date completed: July 15, 1969

Type of well: Drilled
Equipment used: 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 soil, clay, shale, gravel, rock, 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 (Feet)</th>
<th>Size and Weight of casing (Feet)</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>12&quot;</td>
<td>8 1/2/80, DO</td>
<td>1.5</td>
<td>15</td>
<td>172</td>
</tr>
<tr>
<td>6&quot;</td>
<td>4-1/2, 7-6/8</td>
<td>201</td>
<td>201</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well...... 116 feet.
Shut-in Pressure for Flowing Well..............
Pumping Water Level 157 feet at 40 gal. per minute.
Discharge in gal. per min. of flowing well

How Tested: continuous pump
Length of Test
Remarks: (Gravel packing, cementing, packers, type of shut-off)

Cave type packers 616'
88'-- 170'
12 in. cement surface

(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).

SHOW EXACT DEPTH OF BOTTOM.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL
Developed After January 1, 1962
(Under Chapter 237, Montana Session Laws, 1961, as amended)

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 may be returned.

For Administrator's Use
File No. 3-352, 348
Date 6-27-973
GW 11-25-13

Owner: Johnson Land & Livestock, Inc.
Address: Box 1352, Billings, Montana

Contractor (if any) ____________________________________________
Address of Contractor ________________________________________
Date Started __________ Date Completed __________

1. Describe means of obtaining groundwater (as by sub-irrigation, developed spring, drains, etc.)
   Stock Water Flooding Down Johnson Coulee
   Sec. 18 Sec. 7 T13 R28 Sec. 1 T13 R28 Sec. 34 T14 R47

2. Means of withdrawing water (gravity, pump, canal, etc.)

3. Depth of water table

4. Use of the water Stock Water

5. Amount of groundwater claimed (in miner's inches or gallons per minute)

6. If used for irrigation, give number of acres and description of land

7. Estimate amount of water used each year

8. Months of year spring flows __________ months

Signature of Owner

Date

Indicate point of appropriation and place of use, if possible.
Elevation of spring, if known or estimated __________________________

_________________________  ________________

Signature of Owner

Date

5-4581
NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL
Developed After January 1, 1962
(Under Chapter 237, Montana Session Laws, 1961, as amended)

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 may be returned.

Owner: Franz H. Liebstock
Address: Box 1352, Billings, Montana

Contractor (if any) ____________________________
Address of Contractor ____________________________
Date Started __________ Date Completed __________

1. Describe means of obtaining groundwater (as by sub-irrigation, developed spring, drains, etc.)
stock dam
140 yds long 500 yds long 15 ft deep

2. Means of withdrawing water (gravity, pump, canal, etc.) ____________________________

3. Depth of water table ____________________________

4. Use of the water ____________________________

5. Amount of groundwater claimed (in miner's inches or gallons per minute) All water Running into
________________________

6. If used for irrigation, give number of acres and description of land ____________________________

7. Estimate amount of water used each year ____________________________

8. Months of year spring flows 12 Mon. 12

Signature of Owner ____________________________
Date __________

State: Montana 13-27