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. Trissa P. Johnson
   (Name of Appropriator)
   (Address)

County of: Tascosa
State of: Montana

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

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

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

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

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

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

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

8. The depth of water table: ________________
   ________________

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

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 The estimated amount of groundwater withdrawn each year: ________________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

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

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

Signature of Owner: Trissa P. Johnson
Date: Dec 27, 1962

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

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

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

DECEMBER 30, 1963 

Filed at 9:45 A.M. 

Murray Fassler 
County Clerk and Recorder
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. Teresa M. Johnson, of Grass Range, 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: House and stock water.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1934 continuous.

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

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

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: Shale and sandstone.

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

Signature of Owner: Teresa M. Johnson
Date: Dec 25, 1964

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

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

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

Filed: DEC 30, 1963
1:55 p.m.

17285

COPY

Mary [Signature]
Clerk and Recorder

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

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

1. N Bar Ranch Company , of Grass Range
   (Name of Appropriator) (Address) (Town)

   County of Fergus State of Montana

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

   [Grid diagram with marked points]

   2. The beneficial use on which the claim is based... to be used for livestock

   3. Date or approximate date of earliest beneficial use; and heretofore the use has been... about 1922... has not been used since 1954

   4. The amount of groundwater claimed (in min. inches or gallons per minute). Two gallons per minute

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

   6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal... in the past was withdrawn with a windmill; but in the future can be withdrawn by electric pump

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater... this well was drilled by C. M. Stewart in 1922 for livestock use

   8. The depth of water table... about 50 ft

   9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater... 6" casing used for about 40 ft, set in concrete at the surface

   10. The estimated amount of groundwater withdrawn each year... about 200 gallons per day for 14 years

   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... This well not on property; water is safe for human consumption and will be used for livestock in the future

   N Bar Ranch Company, Inc
   Signature of Owner
   Date

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology; and Quadruplicate for the Appropriator.
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. Kennedy E. Nelson, of Grass Range, (Name of Appropriator)
   (Address) (Town)
   County of Forsyth, 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: human use
   and livestock use.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: July 1, 1962, and drilled in the early 1960s.

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

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof: 30 acres.

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: July 1, 1962.

8. The depth of water table: one well (house) 20 ft.; other 25 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: house well was dug with hand shovel and cement casing; 25 ft.

10. The estimated amount of groundwater withdrawn each year: house well used for human use. Stock well for watering in winter.

11. The log of formations encountered in the drilling of each well if available: don't know.

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: Kenneth Nelson
Date: Dec. 31, 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; Triplet to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

<p>| Location: Sec. 33 T. 12 R. 23 1/4 sec. SW 1/4 |
|---|---|
| Owner | KENNETH ABBOTT |
| Driller | JOE KOMBO |
| Date Started | 5-15-61 |
| Date Completed | 5-25-61 |
| Type of Well | DRILLED |
| Equipment used | CHURN |
| Water Use | Stock |
| Casing | 0 ft. to 270 ft. |
| Casing | 270 ft. to 300 ft. |
| Casing | 300 ft. to 330 ft. |
| Perforated or Screened | 115 ft. to 117 ft. |
| Perforated or Screened | 117 ft. to 121 ft. |
| Casing Type | Size |
| Perforated or Screened Type | Size |
| Static Water Level | 50 feet |
| Shut-In Pressure | 50 lb/sq. in. |
| Pumping Water Level | 90 feet at 2 1/2 gal per min. |
| How Tested | BALLER |
| Length of Test | 1 HOUR |
| Remarks | (Gravel packing, cementing, packers, type of shut-off, depth of shut-off) |</p>
<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>13</td>
</tr>
<tr>
<td>13</td>
<td>17</td>
</tr>
<tr>
<td>17</td>
<td>46</td>
</tr>
<tr>
<td>46</td>
<td>115</td>
</tr>
<tr>
<td>115</td>
<td>120</td>
</tr>
<tr>
<td>120</td>
<td>124</td>
</tr>
<tr>
<td>124</td>
<td>200</td>
</tr>
<tr>
<td>200</td>
<td>267</td>
</tr>
<tr>
<td>267</td>
<td>270</td>
</tr>
</tbody>
</table>
**Notice of Completion of Groundwater Appropriation by Means of Well**

DEVELOPED AFTER JANUARY 1, 1902

(Under Chapter 237, Montana Session Laws, 1961)

Owner: FULON ABBOTT  
Address: BENGALS MILL  
Driller: JAE KOMBO  
Address: P.O. BOX 277, BILLINGS, MONT.

Date of Notice of appropriation of groundwater: NOV.  
Date well started: 10-17-66  
Date completed: 10-20-66

Type of well:  
Equipment used: CHAIN DRILL

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 will, 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>Date of Notice</th>
<th>Depth of Completion</th>
<th>Water Level</th>
<th>Preparations</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-20-66</td>
<td>106</td>
<td>109</td>
<td>109</td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well: 20 feet.

Shut-in Pressure for Flowing Well: 90 feet at 2 gal. per minute.

Discharge in gal. per min. of flowing well: 14.

How Tested: BAILEY

Length of Test: 1 year.

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

**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, same copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

<table>
<thead>
<tr>
<th>Owner</th>
<th>Address</th>
<th>Peerless Incorporated 1670 Denver Club Bldg. Denver, Colorado</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nytan Ranch Division</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Driller</th>
<th>Address</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Date Started</th>
<th>Date Completed</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Location: Sec. 31</th>
<th>T. 12N R. 13W 1/4 sec. NW NE</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Type of well Drilled</th>
<th>Equipment used</th>
<th>Churn Drill</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Drill, driven, bored, or drilled)</td>
<td>(Churn drill, rotary, other)</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Casing:</th>
<th>ft. to ft.</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing:</td>
<td>ft. to ft.</td>
<td>Type</td>
<td>Size</td>
</tr>
<tr>
<td>Casing:</td>
<td>ft. to ft.</td>
<td>Type</td>
<td>Size</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Perforated or Screened:</th>
<th>Ft. to Ft.</th>
<th>Ft. to Ft.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Type of screen or perforations</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Static Water level, for non-flowing well:</th>
<th>feet</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Shut-in pressure, for flowing well:</th>
<th>lb./sq. In. on: (date)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Pumping water level:</th>
<th>feet at</th>
<th>gal. per min.</th>
</tr>
</thead>
</table>

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

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

<table>
<thead>
<tr>
<th>Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Remarks (over)</th>
</tr>
</thead>
</table>
**Pronghorn Ranch**  
Section 33, T12N, R 23E  
Musselshell County, Montana

**LITHOLOGIC LOG**

<table>
<thead>
<tr>
<th>Interval</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 20</td>
<td>Limestone, pale pinkish-white, dense and hard.</td>
</tr>
<tr>
<td></td>
<td>5-15 Same with pale greyish-buff</td>
</tr>
<tr>
<td></td>
<td>10-15 Same with increase of pink color</td>
</tr>
<tr>
<td>20 - 40</td>
<td>Limestone, pinkish-grey, buff to pinkish grey with spots and fragments of black to brown fossiliferous material. Ostracods with calcite centers in hard dense limestone.</td>
</tr>
<tr>
<td></td>
<td>25-40 Same with more pale pink-buff color and more ostracods</td>
</tr>
<tr>
<td>40 - 45</td>
<td>Limestone, soft, poorly crystalline to hard, buff to pale pinkish-white with pale rose colored calcite crystals scattered through. Zones of purple calcite and some dark purple-grey silty limestones.</td>
</tr>
<tr>
<td>45 - 60</td>
<td>Limestone, dense, irregularly mottled buff and purple.</td>
</tr>
<tr>
<td>60 - 75</td>
<td>Limestone, pale greyish-buff, dense and hard.</td>
</tr>
<tr>
<td></td>
<td>65-70 Same with ostracods</td>
</tr>
<tr>
<td></td>
<td>70-75 Same with pieces of dark purple-grey, silty limestone.</td>
</tr>
<tr>
<td>75 - 80</td>
<td>Limestone, mottled purple &amp; grey-buff and hard; plus Silty, light brown limestone; with irregularly crystalline, dense buff limestone with yellow limonite stain.</td>
</tr>
<tr>
<td>80 - 85</td>
<td><strong>EXX</strong> Claystone, gray, limy and loaded with very fine, varicolored siltstone and limestone fragments and ostracods.</td>
</tr>
<tr>
<td>85 - 105</td>
<td>Limestone, mottled purple and grey with many ostracods and zones which are soft and silty.</td>
</tr>
<tr>
<td></td>
<td>90-95 Same and also dense, grey-buff with dark purplish-brown ostracods.</td>
</tr>
<tr>
<td></td>
<td>95-100 Same</td>
</tr>
<tr>
<td></td>
<td>100-105 Same but darker grey and with light brown ostracods.</td>
</tr>
<tr>
<td>105 - 110</td>
<td>Limestone, grey-buff, dense and with hard darker brown-buff ostracods.</td>
</tr>
<tr>
<td>110 - 115</td>
<td>No sample saved. (Was black, silty limestone ?)</td>
</tr>
</tbody>
</table>

*Consulting Geologist: Dr. James B. Fugate*
115 - 120 Limestone, dark brownish-black, finely crystalline, with flaky fractures and ostracods.

120 - 130 Shale, very thin laminae, entirely black and carbonaceous, with zones of clear white and yellow calcite crystals.
125-130 Same with some dense dark brown-black to black limestone with some limonite stain.

130 - 145 Claystone, red and sticky with zones of reddish-brown dense limestone.
140-145 Same and lighter pink-buff. Many pieces of pyrite and some red siltstone and red-brown, dense limestone.

145 - 150 Siltstone, mottled carbonaceous black and grey-buff, limy.
Also with dense dark grey-brown limestone lens and some pyrite.

150 - 155 Limestone, black with sandy, grey-buff spots and patches; some soft, silty zones.

155 - 165 Sand, black; composed of tiny rounded fragments of black, silty limestone and many tiny rounded fragments of varicolored limestone as well as a few pieces of crystalline calcite; also an occasional angular to subhedral grain of quartz.

165 - 170 Limestone, silty, dense, dark brownish-black and drills up in very small fragments.

170 - 175 Same black sand as 155 - 165. Total Depth.
<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>4</td>
<td>Kaufman, Charles</td>
<td>27-2</td>
<td>17169</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Kaufman, Charles</td>
<td>27-2</td>
<td>17157</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Kaufman, Charles</td>
<td>27-2</td>
<td>17167</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Ollis, Kermit</td>
<td>27-2</td>
<td>28229</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Ollis, Cerrell</td>
<td>Note Billing</td>
<td>65-11</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Ollis, Cerrell</td>
<td>27-2</td>
<td>17144</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>Great Rock Co.</td>
<td>27-2</td>
<td>39975</td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>Great Rock Co.</td>
<td>Note Billing</td>
<td>7062-1</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>Great Rock Co.</td>
<td>27-2</td>
<td>17204-1</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>Great Rock Co.</td>
<td>Note Billing</td>
<td>65-37</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Harris</td>
<td>Note Billing</td>
<td>65-18</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>Great Rock Co.</td>
<td>Note Billing</td>
<td>6909-1</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Great Rock Co.</td>
<td>Note Billing</td>
<td>6407-1</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>Happiness, Inc.</td>
<td>37-3</td>
<td>6407-1</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. CHARLES P. KAUFMANN, of Grass Range
   (Name of Appropriator) (Address) (Town)

   County of Fergus State of Montana

   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1963, as follows:

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

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1959 - continuously

   4. The amount of groundwater claimed (in miner's inches or gallons per minute): 100 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 used for irrigation

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

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

   8. The depth of water table: 130 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: 130 feet deep - cased with 6" casing

   10. The estimated amount of groundwater withdrawn each year: 15,000 gallons 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: [Signature]

   Date: Dec. 27, 1963

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. CHARLES F. KAUFMANN
(Name of Appropriator) of Grass Range
County of Fergus, State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been.
   1887 - continuously
   1891 - continuously
   1897 - continuously

4. The amount of groundwater claimed (in miner's inches or gallons per minute).
   1000 gallons per min.
   All - spring

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.
   30 acres hay land - Charles F. Kaufmann
   20 acres hay land -

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.
   1891 - 1887

8. The depth of water table.
   100 feet
   Surface spring

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" casing 100 feet deep pump
   Ditched spring

10. The estimated amount of groundwater withdrawn each year.
   100,000 gallons - spring - supply all livestock & irrigation needs

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:
Date: Dec. 27, 1963

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

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

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

Filed, DEC 27 1963, 19
at 2:30 o'clock P.M.

Lucy Mathews
County Clerk and Recorder

#200 pag.
I. Charles F. Kaufmann
(Name of Appropriator)

Grass Range
(Address)

County of Fergus
(Town)

State of Montana

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

2. The beneficial use on which the claim is based

stock water, irrigation & domestic uses

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

1939 - continuously

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

60 gallons per min. - subject

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

10 acres garden and orchard - Charles F. Kaufmann

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

artesian & pump

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

1953 & 1959

8. The depth of water table...

660 feet subject 125 feet subject

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

6 inch casing - 660 feet & 125 feet

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

20,000 gallons 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

Date Dec. 17, 1963

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

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

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

Filed: DECEMBER 27, 1963
at 3:55 o'clock P.M.

Henry Nachtman
County Clerk and Recorder

\$ 2.00
Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1963
(Under Chapter 237, Montana Session Laws, 1961)

Owner: KENNETH ABBOTT
Address: GRASS RANCE, MART

Driller: JOE KOMBOL
Address: ROUNDUP, MONT

Date of Notice of appropriation of groundwater: NONE

Date well started: 6-7-66
Date completed: 6-21-66

Type of well: DRILLED

Equipment used: CHURN

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>Depth (Feet)</th>
<th>Data of Notice of Appropriation</th>
<th>Water Use</th>
<th>Pumping Water Level</th>
<th>Static Water Level for Non-Flowing Well</th>
<th>Shut-in Pressure for Flowing Well</th>
</tr>
</thead>
<tbody>
<tr>
<td>6' 10&quot;</td>
<td>0</td>
<td>35</td>
<td></td>
<td>7 feet</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well

Shut-in Pressure for Flowing Well

Pumping Water Level 16 feet at 32 gal. per minute.

Discharge in gal. per min. of flowing well

Remarks: (Gravel packing, cementing, packers, type of shut-off) DRILLED TO 35' SALT AND WATER

Show exact depth of bottom.

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

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

Driller's License Number


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).

Driller's Signature

41439
Form No. 18
T. 12 R. 24
8-60

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

STATE ENGINEER

Water Well Log

Owner: DARRELL ABECK
Address: Grass Range

Driller: JOE KONDOL
Address: Roundup

Date Started: 8-23-61
Date Completed: 8-24-61

Location: Sec. 9 T. 12 R. 24

Type of well: DRILLED
Equipment used: Churn

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

Casing:
- 0 ft. to 24 ft. Type: [ ]
- Size: [ ]

Casing:
- ft. to ft. Type: [ ]
- Size: [ ]

Casing:
- ft. to ft. Type: [ ]
- Size: [ ]

Perforated or screened: Ft. 9 to ft. 24. Ft. ______ to ft. ______

Type of screen or perforations: [ ]

Static water level, for non-flowing well: ______ feet.

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

Pumping water level: 15 feet at 20 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>8</td>
<td></td>
<td>Surface</td>
</tr>
<tr>
<td>8</td>
<td>21</td>
<td></td>
<td>Glacial</td>
</tr>
<tr>
<td>21</td>
<td>24</td>
<td></td>
<td>Dolerite</td>
</tr>
</tbody>
</table>

Log of Well
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Darrell Abbott
   (Name of Appropriator)
   1112 W. Water St., Lewistown
   (Address) (Town)

   County of Fergus
   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: well, house use, spring, stock water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
   1915 continuous use

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
   pumping from the well, gravity on the spring

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
   unknown

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
   97 ft. 6 in. casing for the well, 10 ft. deep with 1/2 in. pipe for the spring

10. The estimated amount of groundwater withdrawn each year
    unknown

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

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
    unknown

   Signature of Owner: Darrell Abbott
   Date: Dec. 27, 1963

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

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

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

County of Butte

DEC 27 1963

Filed at 2:15 o’clock P.M.

Tom Bedell
County Clerk and Recorder

20th
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: Grass Ranch Co. Address: Roundup, Mont.
Driller: Munson Drilling Co. Address: Grass Range, Mont.

Date of Notice of appropriation of groundwater: not applicable
Date well started: April 11, 1970 Date completed: April 20, 1970

Type of well: drilled
Equipment used: rotary
(Dug, driven or bored or drilled)
(Churn drill, rotary or other)

Water use: Domestic ☑ Municipal ☐ Stock ☐ Irrigation ☑
Industrial ☐ Drainage ☐ Other ☐

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

---

Static Water Level for non-flowing well
---

Shut-in Pressure for flowing well 177 ft
Pumping Water Level ---
---

Discharge in gal. per min. of flowing well 5

How Tested

Length of Test

Remarks: (Gravel packing, cementing, packers, type of shutoff). cemented
surface through pump using
19 sacks of cement
Cove type catcher packers
at 220', 200', 180' and 60' ft.
six sacks cement used for long stings

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

---

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 torned.

Driller’s License Number

Driller’s Signature
State of Montana
County of Fergus

JUL 8 1970
Filed at 9:40 o'clock A.M.

May Atkinson
County Clerk and Recorder
# Water Well Log

<table>
<thead>
<tr>
<th>Owner</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller</td>
<td>Address</td>
</tr>
<tr>
<td>Date Started</td>
<td>Date Completed</td>
</tr>
<tr>
<td>Location: Sec.</td>
<td>T.</td>
</tr>
</tbody>
</table>

**Type of well**

- [ ] Dug (churn, or drilled)
- [ ] Drilled (drill, rotary, other)

**Equipment used**

- [ ] Churn, drill, rotary, other

**Water use**

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

**Casing**

- [ ] ft. to 175 ft. Type [ ] Size [ ]
- [ ] ft. to [ ] ft. Type [ ] Size [ ]
- [ ] ft. to [ ] ft. Type [ ] Size [ ]

**Perforated or screened**

- [ ] ft. to [ ] ft. [ ] ft. to [ ] ft.

**Type of screen or perforations**

**Static water level, for non-flowing well**

- [ ] feet

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

- [ ] lb./sq. in. on: [ ] (date)

**Pumping water level**

- [ ] feet at [ ] gal. per min.

**How tested**

- [ ] [ ]

**Length of test**

- [ ] hours

**Remarks**

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

(over)
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

T. 12S. R. 24E.
County: PETERS

GRAVES RANCH CO.
Signature of Owner: Steja. Tu. R. 21, Bl. 11, Bl. 5

1. Graves Ranch Co., of Roundup, Montana
(Name of Appropriator) (Address) (Town)
County of Yellowstone State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1925

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

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: small acreage Graves Ranch Co.

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

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

8. The depth of water table: 5 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: 175 feet

10. The estimated amount of groundwater withdrawn each year as needed for stock: 2,292,000 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:

Pump

GRAVES RANCH CO.
Signature of Owner: Date

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

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

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

DEC 30 1963

Fifth day of December
10:00 A.M.

M. R. McDuff
County Clerk and Recorder

20th Day

17204
Form No. 18  

8-60  

County: **FERGUS**  

**MONTANA BUREAU OF MINES AND GEOLOGY**  
Butte, Montana

**Water Well Log**  

STATE ENGINEER

<table>
<thead>
<tr>
<th>Owner</th>
<th>ALVIN ABBOTT</th>
<th>Address</th>
<th>GRAS SIERRA RANGE, MONT</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller</td>
<td>JOE KAMBALE</td>
<td>Address</td>
<td>ROCKY MOUNT</td>
<td></td>
</tr>
<tr>
<td>Date Started</td>
<td>8-21-61</td>
<td>Date Completed</td>
<td>8-23-61</td>
<td></td>
</tr>
<tr>
<td>Location:</td>
<td>Sec. 29 T. 12 R. 24 4 sec.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Type of well:** **DRILLED**  
**Equipment used:** **CHURN**

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

**Casing:**  
- 0 ft. to 59 ft.  
- Type: **19L REC FT**  
- Size: **6 1/2 IN.**

**Perforated or screened:**  
- Ft. ____ to Ft. ____  
- Ft. ____ to Ft. ____

**Type of screen or perforations:**

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

**Shut-in pressure, for flowing well:**  
- **5** lb./sq. in. on:  
  - 8-23-61 (date)
  - 706 P.M.

**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
- 2" HOLE 0-70 FT 11 1/2" HOLE 37 TO 81 CASING DRIVE
- 70 SANDSTONE 1167' CEMENTED ON OUTSIDE (10 SACK)  
- 2" SHUT-OFF VALVE (over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 6</td>
<td>SURFACE</td>
</tr>
<tr>
<td>6 - 18</td>
<td>GRAVEL</td>
</tr>
<tr>
<td>18 - 57</td>
<td>SHALE</td>
</tr>
<tr>
<td>57 - 80</td>
<td>SANDSTONE</td>
</tr>
<tr>
<td>80 - 81</td>
<td>SHALE</td>
</tr>
</tbody>
</table>
**Montana Bureau of Mines and Geology**
Butte, Montana

**Water Well Log**

Owner: **Graves**  Address: **Roundup, Mont**
Driller: **Joe Kombol**  Address: **Roundup, Mont**

Date Started: **8-19-61**  Date Completed: **8-19-61**

Location: Sec. 33 T. 12 R. 24  1/4 sec. NE of SE

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

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

Casing: 0 ft. to 70 ft. Type: **2 Gauge Gal** Size: 6''

Casing: ______ ft. to ______ ft. Type: ______ Size: ______

Casing: ______ ft. to ______ ft. Type: ______ Size: ______

Perforated or Screened: Ft. 44 to Ft. 67. Ft. ______ to Ft. ______

Type of screen or perforations: **Factory Screen (Demster)**

Static water level, for non-flowing well: ______ feet.

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

Pumping water level: ______ feet at ______ gal. per min.

How tested: **Raider**

Length of test: ______ HR

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

(over)
**Log of Well**

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 8</td>
<td>Surface</td>
</tr>
<tr>
<td>8 - 23</td>
<td>Gravel</td>
</tr>
<tr>
<td>23 - 35</td>
<td>Yellow Clay</td>
</tr>
<tr>
<td>35 - 50</td>
<td>Dark Shale</td>
</tr>
<tr>
<td>50 - 55</td>
<td>Sandy Shale</td>
</tr>
<tr>
<td>55 - 62</td>
<td>Sandstone</td>
</tr>
<tr>
<td>62 - 70</td>
<td>Dark Shale</td>
</tr>
</tbody>
</table>
Form No. 18
8-60

T. 12
R. 24

County:

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

Water Well Log

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Equipment used</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drilled</td>
<td>Churn, drill, rotary, other</td>
</tr>
</tbody>
</table>

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

Casing:
- 0 ft. to 70 ft. Type 20 Size 6.6
- 0 ft. to 70 ft. Type Size
- 0 ft. to 70 ft. Type Size

Perforated or Screened:
- Ft. 31 to ft. 70 Ft. 31 to ft.

Type of screen or perforations:
- [fill in]

Static water level, for non-flowing well: ______ feet.

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

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)
## Log of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>From</th>
<th>To</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td></td>
<td>Surface</td>
</tr>
<tr>
<td>6</td>
<td>23</td>
<td></td>
<td>Water.</td>
</tr>
<tr>
<td>23</td>
<td>33</td>
<td></td>
<td>Yellow loam.</td>
</tr>
<tr>
<td>34</td>
<td>50</td>
<td></td>
<td>Dark clay.</td>
</tr>
<tr>
<td>50</td>
<td>60</td>
<td></td>
<td>Sandy loam.</td>
</tr>
<tr>
<td>59</td>
<td>62</td>
<td></td>
<td>Sandstone.</td>
</tr>
<tr>
<td>62</td>
<td>70</td>
<td></td>
<td>Dark.</td>
</tr>
</tbody>
</table>

---

[Signature]

[Date]

[Comment]
Form No. 18
8-60

MONTANA BUREAU OF MINES AND GEOLoGY
Butte, Montana

Water Well Log

Owner Graves Ranch Company
Address Roundup, Montana

Driller
Address

Date Started
Date Completed

Location: Sec. __ T. __ R. __ sec. __

Type of well
Equipment used

Water use:
Domestic
Municipal
Stock
Irrigation
Industrial
Drainage
Other

Casing:

Perforated or screened:

Type of screen or perforations

Static water level, for non-flowing well:

Shut-in pressure, for flowing well:

Pumping water level:

How tested:

Length of test

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

(over)
## Log of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>From</th>
<th>To</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>16</td>
<td></td>
<td>GRAVEL</td>
</tr>
<tr>
<td>16</td>
<td>26</td>
<td></td>
<td>YELLOW CLAY</td>
</tr>
<tr>
<td>21</td>
<td>30</td>
<td></td>
<td>GRAY ROCK</td>
</tr>
<tr>
<td>3</td>
<td>22</td>
<td></td>
<td>PENTIMENTE</td>
</tr>
<tr>
<td>30</td>
<td>31</td>
<td></td>
<td>BLACK ROCK</td>
</tr>
<tr>
<td>Sec.</td>
<td>Name of Appropriator</td>
<td>Typ# of Form</td>
<td>County File No.</td>
</tr>
<tr>
<td>------</td>
<td>---------------------------</td>
<td>--------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>3</td>
<td>Raw; Butler; Storeman</td>
<td>2 Y 4</td>
<td>9607</td>
</tr>
<tr>
<td>3</td>
<td>Raw; Butler; Storeman</td>
<td>2 Y 4</td>
<td>9600</td>
</tr>
<tr>
<td>3</td>
<td>Raw; Butler; Storeman</td>
<td>2 Y 4</td>
<td>9631</td>
</tr>
<tr>
<td>4</td>
<td>Nickel, D. A.</td>
<td>2 Y 4</td>
<td>11731</td>
</tr>
<tr>
<td>4</td>
<td>Nickel, D. A.</td>
<td>2 Y 4</td>
<td>11722</td>
</tr>
<tr>
<td>5</td>
<td>Estes, E. L.</td>
<td>2 Y 4</td>
<td>16150</td>
</tr>
<tr>
<td>9</td>
<td>Estes, P. E.</td>
<td>2 Y 4</td>
<td>16131</td>
</tr>
<tr>
<td>11</td>
<td>Raw; Burton; Thomas</td>
<td>2 Y 4</td>
<td>9659</td>
</tr>
<tr>
<td>16</td>
<td>Alley, D. S.</td>
<td>2 Y 4</td>
<td>17072</td>
</tr>
<tr>
<td>20</td>
<td>United States Co.</td>
<td>2 Y 4</td>
<td>9274</td>
</tr>
<tr>
<td>21</td>
<td>Brown, D. P.</td>
<td>2 Y 4</td>
<td>19273</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)

BURTON T. RAM & FRANCIS E. RAM, of BOX 75, CARMIEL, 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: on domestic irrigation and stock water.

2. Date or approximate date of earliest beneficial use: on Well No. 1, June, 1944; and on Well No. 2, July, 1944; use on both wells has been continuous.

3. The amount of groundwater claimed: 8 gallons per minute, four gallons from each well.

4. If used for irrigation, give the acreage and description of the lands to which water has been applied: Lot 2 thereof of Section 3, T. 11, R. 16.

5. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: Well No. 1 is an artesian well and flows continuously; the pump never runs dry; and drips for 24 hours. Well No. 2 has a pump jack to bring water to the surface.

6. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal: Well No. 1, June, 1944; and Well No. 2, July, 1944.

7. The depth of water table: Well No. 1, 60' and Well No. 2, 50'.

8. The log of formations encountered in the drilling of each well: none available.

9. The estimated amount of groundwater withdrawn each year: 4,204,890 gallons.

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

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: unknown.

Signature of Owner: Burton T. Ram
Date: May 2, 1962

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

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

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

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

- Helena Independent Record -

File No.: 9660

STATE ENGINEER

DUPPLICATE

Burton T. Raw & Frances K. Raw

Carrtill

County: Pondera

State: Montana

Declaration of Tested Groundwater Rights have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

1. **BURTON T. RAW & FRANCES K. RAW** of **Carrtill**
   - Name of Appropiator
   - Address
   - Town
   - County of Pondera
   - State of Montana

2. The beneficial use on which the claim is based: domestic
   - irrigation and stock water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: on well No. 1, 1915, and on well No. 2, June, 1943; use on both wells has been continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 8 gallons per minute, four gallons from each well

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: section 7, 71, 11 T. 11 R. 16

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: pumps on both wells of 300 gallons per hour capacity

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: on well No. 1, 1915, and on well No. 2, June, 1943

8. The depth of water table: Wall No. 1, 45'; Wall No. 2, 60'

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: both wells are pumped by 300 gallon per hour pump with 6" casing; depth of Wall No. 1, 45'; depth of Wall No. 2, 60'

10. The estimated amount of groundwater withdrawn each year: 4,204,800 gallons

11. The log of formations encountered in the drilling of each well if available: none 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: unknown

Signature of Owner: Frances K. Raw

Date: May 2, 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.
Notice of Completion of Groundwater Appropriation

Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: 1900

Owner: HURTON T. RAW
Address: CARRIILL, MONTANA

Contractor (if any): NONE

Address of Contractor: 

Date Started: UNKNOWN
Date Completed: 1900

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

Spring that comes to the surface and flows thereon for a short distance; the spring flows continuously.

Lot 2

Approximately ten gallons per minute; used continuously by stock for drinking purposes and thereafter seeps back into the ground; estimated amount computed through knowledge obtained by having other wells and knowing the flow therefrom.

Signature of Owner: 

Date: May 2, 1962

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

1. B. A. Nickell of Cammell, Montana
   (Name of Appropriator) (Address) (Town)

   County of Prairie, State of Montana

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

   - The beneficial use on which the claim is based: Household water

   - Date or approximate date of earliest beneficial use; and how continuous the use has been: September, 1947

   - The amount of groundwater claimed (in miner's inches or gallons per minute): 87,500 gallons per year

   - 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 used for irrigation

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

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

   - The depth of water table: 6'

   - 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: Spring, below surface, cased with concrete and tank

   - The estimated amount of groundwater withdrawn each year:

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

   - 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: Developed, cased, spring, six feet below surface, galvanized tank inside concrete casing

   Signature of Owner: B. A. Nickell
   Date: November 2, 1962

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

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

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

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

1. B. A. NICKEL, of GARRELL, MONTANA

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Nov. 17, 1945, continuous

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
   Pump; SHALLOW井, Section 4, Township 11 North of Range 16 East

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Nov. 17, 1945

8. The depth of water table 74 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Drilled, steel-cased, 5' 74' deep

10. The estimated amount of groundwater withdrawn each year 40,000 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 B. A. Nickel
Date NOVEMBER 2, 1962

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

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

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

Filed  
November 9, 1962  

at 11:30 A.M.  

Mary Smith  
County Clerk and Recorder  

#200
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

1. File No. 16130

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

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

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

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

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

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

8. The depth of water table:

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

10. The estimated amount of groundwater withdrawn each year:

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

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

Signature of Owner:

Date:

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

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

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

Piled: NOV 5 1963 19.

at 11:05 o'clock A. M.

Ray Rother
County Clerk and Recorder

*200p*
DECLARATION OF VESTED GROUNDWATER RIGHTS

(Under Chapter 237, Montana Session Laws, 1961)

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

ESLING POTTER
(Address)
County of
State of

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

1. 

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

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

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

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

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

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

8. The depth of water table.

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

10. The estimated amount of groundwater withdrawn each year.

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

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

Signature of Owner:

Date:

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

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

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

16131
State of Montana, 1963
County of Fergus

Filed: NOV 5, 1963

By: C. M. County Clerk and Recorder
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. HURST, T. RAW & FRANCES K. RAW of BOX 75 CROCKETT
(Name of Appropriator) (Address) (Town)
County of
State of MONTANA
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: On Well No. 1, June, 1943 and Well No. 2, June, 1951; use on both wells has been continuous.

4. The amount of groundwater claimed (in miner's inches or gallons per minute): Well No. 1 = 8 gallons per minute from May 1 to Sept. 1 each year; Well No. 2 = 4 gallons per minute year round.

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: both wells pumped by 300 gallons per hour pump-jack.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Well No. 1, June, 1943 and Well No. 2, June 1951.

8. The depth of water table: Well No. 1, 83'; Well No. 2, 200'.

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: Both wells have a pump-jack with 6' casing; pumps on both wells are of 300 gallon per hour capacity; depth of Well No. 1, 83'; and depth of Well No. 2, 200'.

10. The estimated amount of groundwater withdrawn each year: 3,398,400.

11. The log of formations encountered in the drilling of each well if available: none 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: unknown.

Signature of Owner: Frances K. Raw
Date: May 2, 1962

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

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

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