DECLARATION OF VESTED GROUNDWATER RIGHTS

(Under Chapter 237, Montana Session Laws, 1961)

1. G. A. Murphy, of Musselshell, 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: 2015, Continuously

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: Does not apply

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: Approx. 75 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 in. 600 ft.

10. The estimated amount of groundwater withdrawn each year: 75000 gal.

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

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: G. A. Murphy
Date: Dec. 19, 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
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

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

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

Owner: C.E. Murphy
Address: Russellshell
Montana
Date well started: May 3, 1972
Date well completed: May 6, 1972
Type of well: Drilled
Equipment used: Rotary
Water Use: Domestic □ Municipal □ Stock □ Irrigation □ Industrial □ Drainage □ Other □ Garden/Lawn □

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

### ESTIMATED ANNUAL WITHDRAWAL

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of Casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
<th>Kind</th>
<th>Size</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>61/4</td>
<td>52</td>
<td>15.5pf</td>
<td>0</td>
<td>241</td>
<td>slotted</td>
<td>195</td>
<td>230</td>
<td></td>
</tr>
</tbody>
</table>

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

Static water level: 100 ft.
Pumping water level: 280 ft.
*Measured from ground level.

Well developed by: balling
for: 3 hours.
Power: HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

Driller’s Signature: ___________________________
Driller’s Address: ___________________________

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

Driller's Signature: ___________________________
Driller’s Address: ___________________________

*Show exact depth of bottom
STATE OF MONTANA,
MUSSELHELL COUNTY.  
FILED THIS__DAY OF
May A.D. 1921
AT 9:51 O'COCK A.M.
CLAUDE F. FLETCHER
COUNTY RECORDER

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

John E. Turley, Sr., of Sugar Hill, Missoula
County of Jefferson
State of Montana

Patton

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 since then.

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

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

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

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

(Under Chapter 237, Montana Session Laws, 1961)

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

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

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

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

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

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

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

8. The depth of water table:

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

10. The estimated amount of groundwater withdrawn each year:

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

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

Signature of Owner:

Date:

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

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

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

WATER WELL LOG

Owner: Gerald E. Turley
Address: Mussesbell

Driller: M. Cleary
Address:

Date Started: 1917
Date Completed: 1917

Location: Sec 34 T. 7 R. 29 1/4 sec. M.

Type of well: Drilled
Equipment used: Diamond rotary

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

Casing: Surface to Bottom
Type: Heavy Duty
Size: 4 in

Casing: ft. to 3.65 ft.
Type: 
Size: 

Perforated or Screened: From don't know to ft.

Type of screen or perforations:

Static Water level, for non-flowing well: 12 to 15 ft. surf.

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

Pumping water level: 12 to 15 feet at Thirty gal. per min.

How tested: Actual use

Length of test: Several days

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

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>To</td>
</tr>
<tr>
<td></td>
<td>Suppose, layers of shale</td>
</tr>
<tr>
<td></td>
<td>Sandstone, some coal</td>
</tr>
</tbody>
</table>
MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana  

WATER WELL LOG

<table>
<thead>
<tr>
<th>Owner</th>
<th>Gerald E. Turley</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>Musselshell</td>
</tr>
<tr>
<td>Driller</td>
<td>Lewis Urban</td>
</tr>
<tr>
<td>Address</td>
<td>Roundup, MT</td>
</tr>
<tr>
<td>Date Started</td>
<td>Aug 6, 1957</td>
</tr>
<tr>
<td>Date Completed</td>
<td>Aug 14, 1957</td>
</tr>
<tr>
<td>Location:</td>
<td>Sec 35, T. 7, R. 29, 1/4 sec center</td>
</tr>
<tr>
<td>Type of well</td>
<td>Drilled</td>
</tr>
<tr>
<td>Equipment</td>
<td>Churn drill</td>
</tr>
<tr>
<td>Water use:</td>
<td>Stock</td>
</tr>
<tr>
<td>Casing:</td>
<td>Size</td>
</tr>
<tr>
<td>Perforated or Screened</td>
<td>Depth of test</td>
</tr>
<tr>
<td>Pumping water level</td>
<td>Date tested</td>
</tr>
<tr>
<td>Shut-in pressure</td>
<td>Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</td>
</tr>
</tbody>
</table>

Remarks: fair well
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>To</td>
</tr>
</tbody>
</table>

I think alternate layers of shale, sandstone, some coal, water from sandstone.
**MONTANA BUREAU OF MINES AND GEOLOGY**
Suite, Montana

**WATER WELL LOG**

<table>
<thead>
<tr>
<th>Owner</th>
<th>Gerald E. Turley</th>
<th>Address</th>
<th>Missoula</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller</td>
<td>Self + Bill Beard</td>
<td>Address</td>
<td></td>
</tr>
<tr>
<td>Date Started</td>
<td>Oct 3, 1957</td>
<td>Date Completed</td>
<td>Nov 3, 1957</td>
</tr>
<tr>
<td>Location</td>
<td>Sec 36, T 7, R 29, 1/4 Sec 6E</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Dug</th>
<th>Equipment used</th>
<th>Push shovel, Dynamic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water use:</td>
<td>Domestic [✓]</td>
<td></td>
<td>Stock [✓]</td>
</tr>
<tr>
<td>Casing:</td>
<td>7/8 in. to 1 1/2 ft.</td>
<td>Type 9 ft.</td>
<td>Size: 10 3/4 ft.</td>
</tr>
<tr>
<td>Perforated or Screened:</td>
<td>Ft. to ft.</td>
<td>Type</td>
<td>Size</td>
</tr>
<tr>
<td>Type of screen or perforations</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Static Water level, for non-flowing well:</td>
<td>20 ft.</td>
<td>feet.</td>
<td></td>
</tr>
<tr>
<td>Shut-in pressure, for flowing well:</td>
<td>104 lb/sq. in. on:</td>
<td>(date)</td>
<td></td>
</tr>
<tr>
<td>Pumping water level:</td>
<td>92 gpm feet at</td>
<td>Seven</td>
<td>gal. per min.</td>
</tr>
<tr>
<td>How tested:</td>
<td>Pumped</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length of test:</td>
<td>Several hours</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remarks:</td>
<td>(Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depth, feet</td>
<td>Description of Material Drilled</td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------</td>
<td>---------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>From 10 ft</td>
<td>To 15 ft</td>
<td>Top soil. Mostly sandstone and gravel. Water in bottom of stone. Good water about seven gals. per minute.</td>
<td></td>
</tr>
<tr>
<td>Sec.</td>
<td>Name of Appropriator</td>
<td>Type of Form</td>
<td>County File No.</td>
</tr>
<tr>
<td>------</td>
<td>----------------------</td>
<td>--------------</td>
<td>----------------</td>
</tr>
<tr>
<td>2</td>
<td>Johnson, Harry</td>
<td>GW4</td>
<td>165765</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>GW4</td>
<td>165852</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>GW4</td>
<td>165765</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>GW4</td>
<td>165764</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>GW4</td>
<td>165762</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>GW4</td>
<td>165850</td>
</tr>
<tr>
<td>4</td>
<td>Million, T.O.</td>
<td>GW4</td>
<td>165790</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>57008</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>57008</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>GW4</td>
<td>165789</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>GW4</td>
<td>165974</td>
</tr>
<tr>
<td>9</td>
<td>Johnson, Harry</td>
<td>GW4</td>
<td>165761</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td>GW4</td>
<td>165853</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td>GW4</td>
<td>165851</td>
</tr>
<tr>
<td>12</td>
<td></td>
<td>57008</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td></td>
<td>57008</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Jensen, Clayton</td>
<td>57008</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Million, T.O.</td>
<td>GW4</td>
<td>165795</td>
</tr>
<tr>
<td>17</td>
<td></td>
<td>GW4</td>
<td>165793</td>
</tr>
<tr>
<td>18</td>
<td>Jensen, Clayton</td>
<td>57008</td>
<td>165551</td>
</tr>
<tr>
<td>19</td>
<td>Murphy, CKO</td>
<td>GW4</td>
<td>167378</td>
</tr>
<tr>
<td>20</td>
<td>Johnson, Harry</td>
<td>57008</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Schulz, Harold</td>
<td>GW2</td>
<td>148469</td>
</tr>
<tr>
<td>20</td>
<td>Schulz, Harold</td>
<td>57008</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>Johnson, Harry</td>
<td>GW4</td>
<td>165849</td>
</tr>
<tr>
<td>31</td>
<td>Trieble, Orville</td>
<td>GW2</td>
<td>183117</td>
</tr>
<tr>
<td>31</td>
<td></td>
<td>57008</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)

County of __________ State of __________

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

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

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

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

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

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

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

8. The depth of water table ________________

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

10. The estimated amount of groundwater withdrawn each year ________________

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

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

Signature of Owner ________________

Date ________________

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

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

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

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

1. Harry Johnson, of 

County of 

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

2. The beneficial use on which the claim is based

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

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

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

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

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

8. The depth of water table

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

10. The estimated amount of groundwater withdrawn each year

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

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

Signature of Owner

Date

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the School of Mines and quadruplicate for the Appropriator.
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

Harry Johnson
(Name of Appropriator)
County of Musselshell
(Address)

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

2. The beneficial use on which the claim is based

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 School of Mines and quadruplicate for the Appropriator.
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

Harry Johnson of Musselshell
County of Musselshell 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
   Residence, stockwater, farm and garden

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 19.57 continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 50.9 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
   Lands for garden

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater May 1954

8. The depth of water table 45 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
   Gal and casing 80 ft dup

10. The estimated amount of groundwater withdrawn each year unknown

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

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: Harry Johnson
Date June 28, 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.
165764

STATE OF MONTANA
MUSEUM COUNTY

FILED THIS 37

JANUARY 7, 1964

AT 2:53 O'CLOCK P.M.

B. H. MATZKE
COUNTY RECORDER

Clara J. Bowers
DEPUTY

#2-93
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

County of Musselshell
State of Montana

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

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

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

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

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

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

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

8. The depth of water table: 

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

10. The estimated amount of groundwater withdrawn each year: 

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

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

Signature of Owner: 
Date: 

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the School of Mines and quadruplicate for the Appropriator.
STATE OF MONTANA,
MUSSELHELL COUNTY.

FILED THIS 31st DAY OF
January A.D. 1962.
AT 2:30 O'CLOCK P.M.

H. H. MATZEL
COUNTY RECORDER

CLARA J. NEUMANN
DEPUTY
### Declaration of Vested Groundwater Rights

*(Under Chapter 237, Montana Session Laws, 1961)*

1. **Name:** [Johnson]  
   **Address:** [Missoula]  
   **County:** [Missoula]  
   **State:** [Montana]  
   **Appropriator:** [Johnson]  
   **Beneficial Use:** [Irrigation]  
   **Location:** [Montana]

2. **Beneficial use on which the claim is based:** [Irrigation]

3. **Date or approximate date of earliest beneficial use; and how continuous the use has been:** [January 1, 1962]

4. **The amount of groundwater claimed (in miner's inches or gallons per minute):** [30 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:** [Farm in Garden State]

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

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

8. **The depth of water table:** [40 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:** [75 ft deep]

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

11. **The log of formations encountered in the drilling of each well if available:** [Unavailable]

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:** [N/A]

---

**Signature of Owner:** [Johnson]  
**Date:** [12/31/62]

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.
STATE OF MONTANA,
MUSELSHELL COUNTY.

FILED THIS 15 DAY OF
February 12, A.D. 1962.

B. H. MATZKE
COUNTY RECORDER

2, 1960
Declaration of Vested Groundwater Rights

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Under Chapter 237, Montana Session Laws, 1961

T. D. MILLIK
(Mount Appropriator)

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

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

STOCK WATER

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

DAILY

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

3.8 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:

2 ACRES 3 MILES OF W 1/2 4-9-30

T.D. MILLIK

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

SUBMERGIBLE ELECTRIC PUMP

97.0 ft. of W 1/2 4-9-30

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

APPROX. 1918

8. The depth of water table:

40 FT. STATIC LEVEL

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:

DRIVEN CONCRETE PILE

19.6 ft.

10. The estimated amount of groundwater withdrawn each year:

60,000 GALLONS

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


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

Signature of Owner:

Date:

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.

1980
165780
STATE OF MONTANA,
MUSSELHELL COUNTY,

FILED THIS 5th DAY OF
AT 3:31

B. H. MATZKE
COUNTY RECORDER

DEPUTY
<table>
<thead>
<tr>
<th><strong>Water Well Log</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Owner:</strong> J.A. Milliken</td>
</tr>
<tr>
<td><strong>Driller:</strong> J.L. Long</td>
</tr>
<tr>
<td><strong>Date Started:</strong> April 20, 1961</td>
</tr>
</tbody>
</table>

**Location:** Sec. 5 T. 7 R. 20 E. 15 N. 20

- **Type of well:** Drilled
- **Equipment used:** Churn

- **Water use:** Stock
- **Type of screen or perforations:** None

- **Static water level, for non-flowing well:** feet
- **Shut-in pressure, for flowing well:** lb./sq. in. on: (date)

- **Length of test:** 30 min.

**Remarks:** (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)
<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>3</td>
<td>Soil</td>
</tr>
<tr>
<td>3</td>
<td>10</td>
<td>Sand</td>
</tr>
<tr>
<td>10</td>
<td>46</td>
<td>Hard Sandstone</td>
</tr>
<tr>
<td>46</td>
<td>70</td>
<td>Brown shale</td>
</tr>
<tr>
<td>70</td>
<td>145</td>
<td>Blue shale</td>
</tr>
<tr>
<td>145</td>
<td>165</td>
<td>Sandy shale</td>
</tr>
<tr>
<td>165</td>
<td>185</td>
<td>Hard sand</td>
</tr>
<tr>
<td>185</td>
<td>210</td>
<td>Fine sand</td>
</tr>
<tr>
<td>210</td>
<td>218</td>
<td>Light sandy shale</td>
</tr>
<tr>
<td>214</td>
<td>218</td>
<td>shale</td>
</tr>
</tbody>
</table>
Form No. 18  
8-60

Montana Bureau of Mines and Geology  
Butte, Montana

Water Well Log

Owner: T.O. Million  
Address: Musselshell, Mont.

Driller: C.L. Ferguson  
Address: Roundup, Mont.

Date Started: 4/20/61  
Date Completed: 4/27/61

Location: Sec. 5 T. 7 R. 30 1/2 sec. 58 1/2

Type of well: DRIED-WELL  
Equipment used: CHURN

Water use: Domestic □  
Municipal □  
Stock □  
Irrigation □

Industrial □  
Drainage □  
Other □

Casing: 0 ft. to 218 ft. Type 6" □  
Size: 6" □

Casing: □ ft. to □ ft.  
Type: □  
Size: □

Casing: □ ft. to □ ft.  
Type: □  
Size: □

Perforated or screened: Ft. 178 to ft. 218. Ft. □ to ft. □

Type of screen or perforations: □  
Size: □

Static water level, for non-flowing well: □

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

Pumping water level: 2 1/4 feet at 14 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>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From 0</td>
<td>To 3</td>
</tr>
<tr>
<td>3</td>
<td>10</td>
</tr>
<tr>
<td>10</td>
<td>46</td>
</tr>
<tr>
<td>46</td>
<td>70</td>
</tr>
<tr>
<td>70</td>
<td>145</td>
</tr>
<tr>
<td>145</td>
<td>165</td>
</tr>
<tr>
<td>165</td>
<td>168</td>
</tr>
<tr>
<td>168</td>
<td>180</td>
</tr>
<tr>
<td>180</td>
<td>185</td>
</tr>
<tr>
<td>185</td>
<td>214</td>
</tr>
<tr>
<td>214</td>
<td>218</td>
</tr>
</tbody>
</table>
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

T. O. Miller, of Mussen Shell, county of Mussellshell, 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

STORAGE WATER

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

SEASONALLY 5 MONTHS

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

13 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

No irrigation

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

PUMP ENGINES

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

SEPT. 16, 1956 - SEPT. 16, 1956

8. The depth of water table

120 ft

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

WELL, 6 IN. DIA., 120 FT DEEP

10. The estimated amount of groundwater withdrawn each year

75,000 gal

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

C-18 of Hill, R. 26
18-75, 60 ft, dolomite, 35-40 deh., 12; 75-115, 14 deh., 12; 115-175, 4 deh., 12; 175-225, 2 deh., 12; 225-250, 1 deh., 12; 250-300 sand, 12; 300-325 sand, 12.

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


Signature of Owner: T. O. Miller

Date: Jan. 20, 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,  
MUSSEL SHELL COUNTY,  

Filed this 5th day of July 1962  
A.D. 1962  
At 3:30 o'clock P.M.  
B. H. MATZKE  
COUNTY RECORDER  

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

(Name of Appropriator) (Address) (Town)

County of MONTANA State of MONTANA

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

1. Name of Appropirator: MERRITT
2. Address: 710 MILL ENGINE
3. Town: 7-9-30

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

2. The beneficial use on which the claim is based

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1932

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

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

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

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

8. The depth of water table 82 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

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

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 School of Mines and Quadruplicate for the Appropriator.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

STATE ENGINEER

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

2. The beneficial use on which the claim is based

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

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

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

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

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

8. The depth of water table

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

10. The estimated amount of groundwater withdrawn each year

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

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

Signature of Owner

Date

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the School of Mines and quadruplicate for the Appropriator.
STATE OF MONTANA,
MUSSEL SHELL COUNTY,

Filed this 31st day of January, 1962,
at 2:50 p.m.

B. H. MATZKE
COUNTY RECORDER

CLARENCE J. TRESNER
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. Harry Johnson
   (Name of Appropriator)
   of
   (Address)
   County of
   State of

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

2. The beneficial use on which the claim is based

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

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

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

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

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

8. The depth of water table

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

10. The estimated amount of groundwater withdrawn each year

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

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

Signature of Owner

Date

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the School of Mines and quadruplicate for the Appropriator.
STATE OF MONTANA,
MUSSEL SHELL COUNTY,

FILED THIS 15 DAY OF
February A.D. 1967
AT 11:04 O'CLOCK AM

B. H. MATZKE
COUNTY RECORDER

Elaine J. Grammer
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. Name of Appropriator: Harry Johnson
   Address: 123 Main St.
   Town: Missoula
   County: Missoula
   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

   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: Harry Johnson

Date: Feb 12, 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,
MUSSELHELL COUNTY,

FILED THIS 15 DAY
February A.D. 1863
AT 11:00 O'CLOCK A.M.
B. H. MATZKE
COUNTY RECORDER.

DEPUTY
STATE ENGINEER  MONTANA BUREAU OF MINES AND GEOLOGY  BUTTE, MONTANA

WATER WELL LOG

<table>
<thead>
<tr>
<th>Owner</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>HARRY JOHNSON</td>
<td>MUSSELHELL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Driller</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>P. L. FERGUSON</td>
<td>ROUNDUP. MONT</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date Started</th>
<th>Date Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-12-58</td>
<td>6-20-58</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Location: Sec</th>
<th>T</th>
<th>R</th>
<th>§</th>
<th>sec</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>7</td>
<td>30</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Equipment used</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRILLED</td>
<td>CHURN DRILL</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></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Industrial</th>
<th>Drainage</th>
<th>Other:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Casing:</th>
<th>0 ft. to</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>34½ ft.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>GALVANIZED</td>
<td>6</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

| Type of screen or perforations | |
|--------------------------------| |
|                                | |

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

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

<table>
<thead>
<tr>
<th>Pumping water level: 220 feet at APPROX. 50 gal. per min.</th>
</tr>
</thead>
</table>

| How tested:           | BALDWIN TEST                               |
|                       |                                             |

<table>
<thead>
<tr>
<th>Length of test: 90 MIN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

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

(over)
### Log of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From 0</td>
<td>To 5</td>
</tr>
<tr>
<td></td>
<td>surface</td>
</tr>
<tr>
<td>From 4</td>
<td>To 60</td>
</tr>
<tr>
<td></td>
<td>Light gray shale</td>
</tr>
<tr>
<td>From 60</td>
<td>To 80</td>
</tr>
<tr>
<td></td>
<td>Sandy shale</td>
</tr>
<tr>
<td>From 80</td>
<td>To 88</td>
</tr>
<tr>
<td></td>
<td>Sand, water 1 gal per min</td>
</tr>
<tr>
<td>From 88</td>
<td>To 198</td>
</tr>
<tr>
<td></td>
<td>Light shale</td>
</tr>
<tr>
<td>From 198</td>
<td>To 200</td>
</tr>
<tr>
<td></td>
<td>Coal</td>
</tr>
<tr>
<td>From 200</td>
<td>To 310</td>
</tr>
<tr>
<td></td>
<td>Gray sandy shale</td>
</tr>
<tr>
<td>From 310</td>
<td>To 315</td>
</tr>
<tr>
<td></td>
<td>Sand, water 10 gal per min</td>
</tr>
<tr>
<td>From 315</td>
<td>To 345</td>
</tr>
<tr>
<td></td>
<td>Porous sand, Water approx 50 gal per min</td>
</tr>
</tbody>
</table>
WATER WELL LOG

Owner: Harry Johnson  Address: Missoula, Mont.
Driller: Pet Liguori  Address: Butte, Mont.
Date Started: June 12, 1958  Date Completed: June 20, 1958

Location: Sec. _____ T. _____ R. _____ sec. _____

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

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

Casing:  
- 1 ft. to 34 ½ ft.  
  Type: _______________  Size: ___________

Perforated or Screened:  
- 7½” to ft.  
  Ft. ________ to ft. ________

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)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 4</td>
<td>Surface Soil</td>
</tr>
<tr>
<td>4 to 60</td>
<td>Light Gray Shale</td>
</tr>
<tr>
<td>60 to 80</td>
<td>Sandy Shale</td>
</tr>
<tr>
<td>80 to 168</td>
<td>Sandy-Hy. 1/4 gal per Min.</td>
</tr>
<tr>
<td>168 to 198</td>
<td>Light Shale</td>
</tr>
<tr>
<td>198 to 200</td>
<td>Oil</td>
</tr>
<tr>
<td>200 to 310</td>
<td>Gray Sandy Shale</td>
</tr>
<tr>
<td>310 to 315</td>
<td>Sand-1/80-1/10 gal per Min.</td>
</tr>
<tr>
<td>315 to 345</td>
<td>Percolation Sand-1/40 gal per Min</td>
</tr>
</tbody>
</table>
**Water Well Log**

**Type of well**  Drilled  
**Equipment used**  Cable Rig

**Water use:**  Stock

**Casing:**  | 60 ft. | Type: Galvanized | Size: 4" on 20 ga |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing:</td>
<td>ft.</td>
<td>ft.</td>
<td>Type</td>
</tr>
<tr>
<td>Perforated or screened:</td>
<td>Ft.</td>
<td>to</td>
<td>Ft.</td>
</tr>
</tbody>
</table>

**Type of screen or perforations**  Slotted

**Static water level, for non-flowing well:**  33 feet

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

**Pumping water level:**  33 feet at 10 gal. per min.

**How tested:**  Cylinder Pump

**Length of test:**  Thirty Six hr

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

(over)
### Log of Well

<table>
<thead>
<tr>
<th>Depth (feet)</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 15</td>
<td>Yellow Clay</td>
</tr>
<tr>
<td>15 to 25</td>
<td>Sand and gravel</td>
</tr>
<tr>
<td>25 to 45</td>
<td>Blue Clay</td>
</tr>
<tr>
<td>45 to 60</td>
<td>Yellow water sandstone</td>
</tr>
</tbody>
</table>
Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: 1915
Owner: T. A. Miller
Address: [Address]
Contractor (if any): [Name]
Address of Contractor: [Address]
Date Started: 5/11/15 Date Completed: 11/1/15

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

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

Indicate point of appropriation and place of use, if possible.

Signature of Owner: T. A. Miller
Date: Jan. 20, 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 School of Mines and Quadruplicate for the Appropriator.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. T. O. MILLION, of MUSSEL SHELL
   County of MUSSEL SHELL, 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

STACK WATER

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1935

DAILY \ 1935

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

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

APPROX. 1935

8. The depth of water table

2.7 FT STATIC WATER LEVEL

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

108,000 gpd

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

UNRECORDED

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 School of Mines and Quadruplicate for the Appropriator.
**Water Well Log**

Owner: Clayton Jensen  
Address:  

Driller: Anders Lemenon  
Address:  

Date Started: Nov. 24, 1954  
Date Completed: Dec. 26, 1954  

Location: Sec. 18 T. 7 R. 30  

<table>
<thead>
<tr>
<th>Type of Well</th>
<th>Drilled</th>
<th>Equipment Used</th>
<th>Cable Size</th>
</tr>
</thead>
</table>

Water use:  
- Domestic  
- Municipal  
- Stock  
- Irrigation  

- Industrial  
- Drainage  
- Other

Casing:  
- 0 ft. to 60 ft.  
- Type:  
- Size:  

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

Perforated or screened:  
- Ft. 60 to Ft. 40  
- Ft. to Ft.  

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:  

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

(over)
<table>
<thead>
<tr>
<th>Depth (feet)</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 10</td>
<td>Yellow Clay</td>
</tr>
<tr>
<td>15 - 35</td>
<td>Sand &amp; gravel</td>
</tr>
<tr>
<td>25 - 45</td>
<td>Blue Clay</td>
</tr>
<tr>
<td>45 - 60</td>
<td>Yellow shale sandstone</td>
</tr>
</tbody>
</table>
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

G. K. Murphy

(Name of Appropriator)

Musselshell, Montana

(Address)

(Town)

County of Musselshell

State of Montana

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been:
   - Old before 1955
   - Before 1955
   - Used during season

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 6 gpm approx.

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: Does not apply.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal:
   - Pump
   - SE 1/4 SE 19, T.77, R.30E

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: Approx. 40 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 in. casing approx. 60 ft.

10. The estimated amount of groundwater withdrawn each year: 75,000 gal.

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

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. 15, 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; Trifliplicate to the Montana Bureau of Mines and Geology, and a duplicate for the Appropriator.
STATE ENGINEER
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

<table>
<thead>
<tr>
<th>Owner</th>
<th>Address</th>
<th>Driller</th>
<th>Address</th>
<th>Date Started</th>
<th>Date Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harry Johnson</td>
<td>Butte, Montana</td>
<td>Vivette Trudell</td>
<td>Butte, Montana</td>
<td>July 10</td>
<td>July 25</td>
</tr>
</tbody>
</table>

Location: Sec. 20 T. 7 R. 30 W. 5

Type of well: Drilled

Water use: Domestic □, Municipal □, Stock □, Irrigation □, Industrial □, Drainage □, Other: for stock use □

Casing: 0 ft. to 30 ft. Type: steel □, Size: 6" □
Casing: 30 ft. to 50 ft. Type: galvanized □, Size: 5" □
Casing: □ ft. to □ ft. Type: □, Size: □

Perforated or Screened: 30 ft. to 50 ft. Type: factory perforated □

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

Shut-in pressure, for flowing well: 30 lb. per sq. in. on: (date)

Pumping water level: 40 feet at bailed at 15 gal. per min.

How tested: bail testing □, 20 min.

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

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-5</td>
<td>Dirt</td>
</tr>
<tr>
<td>5-30</td>
<td>Sand &amp; Gravel</td>
</tr>
<tr>
<td>30-40</td>
<td>Clay &amp; Shale</td>
</tr>
<tr>
<td>40-51</td>
<td>Blue Shale</td>
</tr>
<tr>
<td></td>
<td>Water at 40' haired at 15 gal.</td>
</tr>
<tr>
<td></td>
<td>a mix and couldn't lower.</td>
</tr>
</tbody>
</table>
Top of Ground
(Elev. above sea level \(3182\) ft)

Date of Notice of Appropriation of Groundwater

Date well started

Date completed

Type of well

Equipment Used

Water Use:

Domestic

Municipal

Stock

Irrigation

Industrial

Drainage

Other

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

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of casing</th>
<th>Tg (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>6-20 gauge</td>
<td>150</td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: \(20\) feet.

Shut-in Pressure for Flowing Well: \(test\).

Pumping Water Level: \(48\) feet at \(30\) gal. per minute.

Discharge in gal. per min. of flowing well: \(test\).

How Tested: \(test\).

Length of Test: \(test\).

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)

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

Show exact depth of bottom.

Driller's License Number

Driller's Signature

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

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

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