STATE OF MONTANA, 
MUSSELHELL COUNTY.

FILED THIS 14th DAY OF
Jan., A.D. 19--
AT 2:12 O'CLOCK P.M.

B. H. MATZIK
COUNTY RECORDER

COUNTY RECORDER

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

1. Name of Appropriator: John E. Turley
   Address: 123 Main St., Town
   County of: Lewis
   State of: Montana

   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: Irrigation
   3. Date or approximate date of earliest beneficial use; and how continuous the use has been: Dec. 31, 1961

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

   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: 10 acres, field A, B, C

   6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: Pump, well 123

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

   8. The depth of water table: 15 ft.

   9. So far as it may be available, the type, size and depth of each well or the general specifications of the other works for withdrawal of groundwater: 10 ft., 100 ft.

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 The estimated amount of groundwater withdrawn each year: 1,000 gal.

   11. The log of formations encountered in the drilling of each well if available: Limestone, shale, 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: John E. Turley
   Date: Dec. 31, 1963

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

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

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

John E. Tenney
(Name of Appropriator)
327 Murderhall Road
(Address)
Missoula, Montana
(Town)

County of Missoula
(State of Montana)

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been.
   September 15, 1914
   (additional notes)

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.
   Not made

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.
   Aug. 1, 1942

8. The depth of water table.
   15 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.
   (additional notes)

10. The estimated amount of groundwater withdrawn each year.
    90,000 gal.

11. The log of formations encountered in the drilling of each well if available.
    (additional notes)

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.
    (additional notes)

Signature of Owner
John E. Tenney
Date Dec. 31, 1963

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
FILED THIS 31ST DAY OF DECEMBER, A.D. 1943
AT 4:30 O'CLOCK P.M.

COUNTY RECORDER

County Recorder

Daly
**WATER WELL LOG**

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

---

**Owner:** James Brown  
**Lessee:**  
**Address:** Lodge Grass, Mont.

**Driller:** Gordon Seaman  
**Address:** Roundup, Mont. Box 836

**Date Started:** May 7, 1958  
**Date Completed:** May 15, 1958

**Location:** Sec. 15 T. 7 R. 28 W/4 sec. center of section

---

**Drilled**  
(Deg., driven, bored, or drilled)

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

- Equipment used: Spudder  
  (Churn drill, rotary, other)

- Casing:  
  - Type: threaded & coupled  
  - Size: 6"  
  - Starting ft.: 0  
  - Ending ft.: 315  

- Casing:  
  - Type:  
  - Size:  
  - Starting ft.:  
  - Ending ft.:  

- Opposite of water sand

- Perforated or screened:  
  - Starting ft.:  
  - Ending ft.:  

- Type of screen or perforations: [ ]

- Static water level, non-flowing: feet.

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

- Pumping water level: 200 feet at 5 gal. per min.

- How tested: Bailer & Pump

- 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>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>To</td>
</tr>
<tr>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>4</td>
<td>23</td>
</tr>
<tr>
<td>23</td>
<td>91</td>
</tr>
<tr>
<td>91</td>
<td>92</td>
</tr>
<tr>
<td>92</td>
<td>126</td>
</tr>
<tr>
<td>126</td>
<td>130</td>
</tr>
<tr>
<td>130</td>
<td>211</td>
</tr>
<tr>
<td>211</td>
<td>216</td>
</tr>
<tr>
<td>216</td>
<td>265</td>
</tr>
<tr>
<td>265</td>
<td>270</td>
</tr>
<tr>
<td>270</td>
<td>301</td>
</tr>
<tr>
<td>301</td>
<td>305</td>
</tr>
<tr>
<td>305</td>
<td>315</td>
</tr>
<tr>
<td>315</td>
<td>Total Depth Static water level 60 feet from top of ground</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)

I, Jim H. Brown, of Roundup, 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.
STATE OF MONTANA
MUSSEL SHELL COUNTY

Filed this Day of Dec., A.D. 18__
At six o'clock P.M.

M. H. MATZKE
COUNTY REFORMER

County Recorder
Deputy
<table>
<thead>
<tr>
<th>Type of well</th>
<th>Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equipment used</td>
<td>Churn</td>
</tr>
<tr>
<td>Water use:</td>
<td>Domestic</td>
</tr>
<tr>
<td>Casing:</td>
<td>ft. to ft.</td>
</tr>
<tr>
<td>Perforated or Screened:</td>
<td>ft. to ft.</td>
</tr>
<tr>
<td>Static Water level, for non-flowing well:</td>
<td>feet</td>
</tr>
<tr>
<td>Shut-in pressure, for flowing well:</td>
<td>lb./sq. in. on: (date)</td>
</tr>
<tr>
<td>Pumping water level:</td>
<td>feet at:</td>
</tr>
<tr>
<td>How tested:</td>
<td></td>
</tr>
<tr>
<td>Length of test:</td>
<td>min.</td>
</tr>
<tr>
<td>Remarks:</td>
<td>(Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</td>
</tr>
</tbody>
</table>

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 2</td>
<td>Sugarc</td>
</tr>
<tr>
<td>2 - 25</td>
<td>Sandy Clay</td>
</tr>
<tr>
<td>25 - 73</td>
<td>Light shale</td>
</tr>
<tr>
<td>73 - 85</td>
<td>Sand 46 19 Gal</td>
</tr>
<tr>
<td>85 - 115</td>
<td>Blue shale</td>
</tr>
<tr>
<td>115 - 144</td>
<td>Sand 140</td>
</tr>
<tr>
<td>144 - 146</td>
<td>shale</td>
</tr>
</tbody>
</table>
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Northern Pacific Railway Company of St. Paul, Minn.
(Name of Appropriator)

County of Ramsey
(State of Minnesota)

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...

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

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

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

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 estimated amount of groundwater withdrawn each year...

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

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

Northern Pacific Railway Co.
Signature of Owner...By...

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

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

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

Owner: Gus McKee

Driller: Sam Mckee

Date of Notice: September 1, 1963

Type of Well: Drilled

Equipment Used: Cable Drill

Water Use: Domestic

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

Static Water Level for non-flowing well at 45 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level: 45 feet at 10 gallons per minute.

Discharge in gal. per min. of flowing well

How Tested

Length of Test

Remarks: (Gravel packing, cementing, packers around screens, type of cutoff, etc.)

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).

Stock Water

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

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

Driller's Signature

Gus Mckee

Date: September 1, 1963
SUITE OF MONTANA
MISSOULA COUNTY

FILED THIS 9TH DAY OF
MARCH, A.D. 1964
AT 2:55 O'CLOCK P.M.

CLAUD F. FLETCHER
COUNTY CORDER

FRANCIS D. KNOX
DEPUTY
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Name of Appropriator: Mae Middleton

County: Missoula
State of Montana

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, 1943 and con

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: Jan. 14, 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. Jim H. Brown, of Roundup, 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 Springs used for stock watering.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1900
   Continues Use

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal:
   All 3 Springs flow naturally.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
   All 3 Springs flow naturally without construction of any works. For withdrawal, Springs are cleaned occasionally.

8. The depth of water table:
   Ground 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:
   All 3 Springs flow naturally the year around.

10. The estimated amount of groundwater withdrawn each year: 300,000 gallons for each spring.

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: Jim H. Brown
Date: December 29, 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 School of Mines and Quadruplicate for the Appropriator.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962
(Under Chapter 237, Montana Session Laws, 1961)

Owner:

Address:

Driller:

Address:

Date of Notice of appropriation of groundwater:

Date well started:

Date completed:

Type of well:

Equipment used:

Water use:

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

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size of Well</th>
<th>Depth of Drilling</th>
<th>Drawdown</th>
<th>Pressure</th>
<th>Water Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>7&quot;</td>
<td>6 1/8&quot;</td>
<td>15'</td>
<td>45'</td>
<td>8'</td>
<td>270</td>
</tr>
<tr>
<td>340</td>
<td></td>
<td></td>
<td>315</td>
<td>325</td>
<td>330</td>
</tr>
<tr>
<td>355'</td>
<td></td>
<td></td>
<td>350</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing well

Shut-in Pressure for Flowing Well

Pumping Water Level

Discharge in gal. per min. of flowing well

How Tested

Length of Test

Remarks:

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).

Driller's License Number

Driller's Signature
STATE OF MONTANA,
MUSKELLUNGE COUNTY,

FILED THIS 10TH DAY OF
July 1968
AT 1:25 O'CLOCK P.M.

CLAUDE F. FLETCHER
COUNTY RECORDER

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

1. Jim H. Brown
   (Name of Appropriator)
   of
   (Address)
   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: Spring
   used for stock watering

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Spring flows naturally without withdrawal

8. The depth of water table: Ground 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:
   Spring flows naturally all year
   Occasional cleaning as is all that is necessary

10. The estimated amount of groundwater withdrawn each year: 6000 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: [Signature]
Date: December 30, 1963

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

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

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

Northern Pacific Railway Company, c/o P. Office Bldg., St. Paul, Minn.
(Name of Appropriator)

County of Ramsey
(State of Minnesota)

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

2. The beneficial use on which the claim is based: **Furnishing water for livestock.**

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: **Continuous since 1953.**

4. The amount of groundwater claimed (in miner's inches or gallons per minute): **75 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: **No items.**

6. The means of withdrawing such water from the ground and the location of such 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: **Drilled in 1953.**

8. The depth of water table: **100 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: **206 feet deep - 6-inch casing.**

10. The estimated amount of groundwater withdrawn each year: **No information available.**

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

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record: **No information available.**

Northern Pacific Railway Co.  
Signature of Owner: **J. F. Black**  
Dist. Supervisor, Gov.'s Cult.  
Date: **Nov 15, 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,
MUSSELSHELL COUNTY,

FILED THIS 14 DAY OF

Nov
A.D. 1965

AT 11 O'CLOCK A.M.

R. H. MATZKE
COUNTY RECORDER

Elaine J. Kramer
DEPUTY
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

I, Jim H. Brown,  of  Roundup,
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: 1900, continuous use

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

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: 300,000

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:  H. H. Brown
Date: December 30, 1963

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

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

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

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

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

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:  
   **Aug. 15, 1949**  
   **6 months yearly**

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal:  
   **None.**

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:  
   **June 15, 1949 to Aug. 15, 1949**

8. The depth of water table:  
   **200 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:  
   **None.**

10. The estimated amount of groundwater withdrawn each year:  
    **75,000 to 150,000 gal**

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:  
    **None.**

    **Signature of Owner: John E. Turley, Jr.**  
    **Date: Dec. 31, 1963**

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
169757

STATE OF MONTANA

CUSTER COUNTY

Filed this 31st day of December A.D. 1863

At 4:10 o'clock P.M.

E.H. Matzke

County Recorder

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

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

1. John E. Turley Sr., at Box 209, Missoula
(Name of Appropriator) (Address)
County of Missoula 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

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
MUSSELEHILL COUNTY

FILED THIS 31 DAY OF
December A. D. 1963
At 4:30 P.M.
COUNTY RECORDER

F. L. Newman
DEPUTY
Form No. 18

<table>
<thead>
<tr>
<th>Water Well Log</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner: Sam Smeding</td>
</tr>
<tr>
<td>Driller: Anderson Drilling Co.</td>
</tr>
<tr>
<td>Date Started: May 10, 1944</td>
</tr>
<tr>
<td>Location: Sec. 26 T. 7N R. 28E 1/4 sec. 80</td>
</tr>
</tbody>
</table>

**Type of well drilled**: Drilled

**Equipment used**: Churn drill

**Type of screen or perforations**: Galvanized screen, casing

| Casing: 0 ft. to 304 ft. Type: Galvanized | Size: 6 in. |
| Casing: Ft. to Ft. Type: | Size: |
| Casing: Ft. to Ft. Type: | Size: |

**Perforated or screened**: Ft. 298 to Ft. 301 Ft. to Ft.

**Static water level**, for non-flowing well: 180 feet.

**Shut-in pressure**, for flowing well: ________lb./sq. in. on: ________

**Pumping water level**: 250 ________feet at ________gal. per min.

**How tested**: Bailer tested

**Length of test**: 60 min.

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

(over)
DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

1. John A. Ren, of [Address], in the County of [County], State of Montana, have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

<p>| | | | | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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

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

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: [Details]

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of ground water: [Dates]

8. The depth of water table: [Depth]

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

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

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

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: [Details]

Signature of Owner: [Signature]
Date: [Date]
STATE OF MONTANA
MUSSELHELL COUNTY

FILED THIS 30 DAY OF
Dec A.D. 1963
AT 4:35 O'CLOCK P.M.

B. H. MATZKE
COUNTY RECORDER

F. H. HAMMOND
DEPUTY
$2.00
# Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

<table>
<thead>
<tr>
<th>Name of Appropriator</th>
<th>Address</th>
<th>Town</th>
<th>County of</th>
<th>State of</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jim H. Brown</td>
<td></td>
<td></td>
<td>Musselshell</td>
<td>Montana</td>
</tr>
</tbody>
</table>

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

1. **Name of Appropriator**: Jim H. Brown  
2. **Address**:  
3. **Town**:  
4. **County**: Musselshell  
5. **State**: Montana

- **Beneficial Use**: Stockwater
- **Date of Use**: 1956
- **Amount Claimed**: 5 gal. per min.
- **Irrigation Information**:
  - **Acreage**:  
  - **Owner**:  
- **Withdrawal Method**:
  - **Type**: Pump
  - **Date of Construction**: 1956
  - **Depth of Water Table**: 110 feet
  - **Well Information**:
    - **Depth**: 200 ft. deep - Cased to bottom
  - **Estimated Annual Withdrawal**: 300,000 gallons

**Other Information**:
- **Date**: December 30, 1963
- **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.
STATE OF MONTANA
MUSSELHELL COUNTY

FILED THIS 31st DAY OF
Nov. A.D. 1963

AT 6:00 O'LOCK P.

B. H. MATZKE
COUNTY RECORDER

DEPUTY
### Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. **John H. Brown**
   - (Name of Appropriator)
   - Roundup
   - (Town)
   - Musselshell
   - (County)
   - Montana
   - (State)

   **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: 1920
   - Continuous use

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: **Pump**

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1920

8. The depth of water table: **20 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 100 ft. deep - cased**

10. The estimated amount of groundwater withdrawn each year: **400,000 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:

   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.

   Date: **December 30, 1963**
Form No. 9

Owner: Sam Smeding
Driller: Clyde Sando
Address: Musselshell

Date Started: July 10, 1955
Date Completed: July 15, 1955

Location: Sec. 30 T. 51 R. 26 S.
Type of Well Drilled: Churn drill
Type of Screen or Perforations: Screen galvanized

Water Use: Domestic

Casing 0 ft. to 187 ft.: Type galvanized, Size 6 in.
Casing: 187 ft. to: Type: Size:
Casing: __________ ft. to: Type: Size:

Perforated or Screened: Ft. 160 to ft. 172. Ft. ______ to ft.

Static Water Level for Non-Flowing Wells: 150 feet.
Thrust Pressure for Flowing Wells: __________ lb. /sq. in. on:

Pumping Water Level: 150 feet at 15 gal. per 'n.

Bailer test

Remarks: Travel packing, cementing, packers, type of shut-off, depth of shut-off

__________________________

__________________________

__________________________
<table>
<thead>
<tr>
<th>Field</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner</td>
<td></td>
</tr>
<tr>
<td>Address</td>
<td></td>
</tr>
<tr>
<td>Driller</td>
<td></td>
</tr>
<tr>
<td>Address</td>
<td></td>
</tr>
<tr>
<td>Date Started</td>
<td></td>
</tr>
<tr>
<td>Date Completed</td>
<td></td>
</tr>
<tr>
<td>Location Sec. T. R. 28 1/4</td>
<td></td>
</tr>
<tr>
<td>Type of well</td>
<td></td>
</tr>
<tr>
<td>Equipment used</td>
<td></td>
</tr>
<tr>
<td>Water use</td>
<td>Stock</td>
</tr>
<tr>
<td>Industrial</td>
<td></td>
</tr>
<tr>
<td>Drainage</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
</tr>
<tr>
<td>Casing: ft. to 180 ft.</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td></td>
</tr>
<tr>
<td>Size</td>
<td></td>
</tr>
<tr>
<td>Casing: ft. to 180 ft.</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td></td>
</tr>
<tr>
<td>Size</td>
<td></td>
</tr>
<tr>
<td>Casing: ft. to 180 ft.</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td></td>
</tr>
<tr>
<td>Size</td>
<td></td>
</tr>
<tr>
<td>Perforated or Screened: Ft. to Ft.</td>
<td></td>
</tr>
<tr>
<td>Type of screen or perforations</td>
<td></td>
</tr>
<tr>
<td>Static Water level, for non-flowing well:</td>
<td>90 ft.</td>
</tr>
<tr>
<td>Shut-in pressure, for flowing well:</td>
<td></td>
</tr>
<tr>
<td>Pumping water level, feet at</td>
<td></td>
</tr>
<tr>
<td>gal. per min:</td>
<td>15</td>
</tr>
<tr>
<td>How tested</td>
<td></td>
</tr>
<tr>
<td>Length of test</td>
<td></td>
</tr>
<tr>
<td>Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</td>
<td></td>
</tr>
</tbody>
</table>
**Leg of Well**

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>From 0 To 18</td>
<td>sand</td>
</tr>
<tr>
<td>From 18 To 115</td>
<td>shale</td>
</tr>
<tr>
<td>From 115 To 130</td>
<td>sand</td>
</tr>
<tr>
<td>From 130 To 150</td>
<td>shale</td>
</tr>
<tr>
<td>From 150 To 160</td>
<td>sand</td>
</tr>
<tr>
<td>From 160 To 180</td>
<td>shale</td>
</tr>
</tbody>
</table>
**State Engineer**

**Water Well No.**

<table>
<thead>
<tr>
<th>Field</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner</td>
<td>Sam Smeding</td>
</tr>
<tr>
<td>Address</td>
<td>Musselshell</td>
</tr>
<tr>
<td>Driller</td>
<td>Louis Corbin</td>
</tr>
<tr>
<td>Address</td>
<td>Roundup</td>
</tr>
<tr>
<td>Date Started</td>
<td>Aug. 5, 1954</td>
</tr>
<tr>
<td>Date Completed</td>
<td>Aug. 15, 1954</td>
</tr>
<tr>
<td>Location</td>
<td>Sec. 32 T. 7N R. 28E</td>
</tr>
</tbody>
</table>

**Type of Well Drilled**: Drilled

**Equipment Used**: Charn Drill

**Water Use**: Domestic, Irrigation

**Casing**: 0 ft. to 67 ft. Type: galvanized Size: 6 in.

**Weight of casing**: galvanized

**Perforated or Screened**: 50 ft. to 65 ft.

**Type of Screen or Perforations**: Slots cut in casing

**Specific Water Level**

- For Non-Flowing Well: 80 feet
- For Flowing Well: lb./sq. in. on:___

**Pumping Water Level**: 50 feet at 20 gal. per min.

**Raw Tested**: Bailer test

**Length of Test**: 60 min.

**Remarks**: (Travel packing, cementing, packers, type of shut-off, depth of shut-off)
DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

County of ...............................................  State of Montana ......

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

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

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

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: ....................................................

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 count record: ....................................................

Signature of Owner: .....................................................

Date: .....................................................
STATE OF MONTANA, MUSSELSHELL COUNTY

FILED THIS 30 DAY OF
DEC. 1968 A.D.
AT 1:28 O'CLOCK P.M.

P. H. MATZEK
COUNTY RECORDER

PRICES D. HAYMOND
COURT CLERK
**Form No. 18**

**MONTANA BUREAU OF MINES AND GEOLOGY**

**Butte, Montana**

**STATE ENGINEER**

---

**Owner**: Sam Speeding  
**Address**: Musselshell

**Driller**: Anderson Drilling Co.  
**Address**: Billings

**Date Started**: April 9, 1950  
**Date Completed**: April 16, 1950

**Location**: Sec. 33 T. 7N R. 26E 4 sec. NW

---

<table>
<thead>
<tr>
<th>Type of well drilled</th>
<th>Equipment used</th>
<th>Date Started</th>
<th>Date Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>churn drill</td>
<td>April 9, 1950</td>
<td>April 16, 1950</td>
</tr>
</tbody>
</table>

---

**Water use**: Domestic  
**Type**: Irrigation

---

**Casing**: 0 ft. to 200 ft.  
**Type**: galvanized  
**Size**: 6 in.

---

**Perforated or screened**: Ft. 161 to ft. 200  
**Type**: calvenized screen casing

---

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

---

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

---

**Pumping water level**: 170 feet at 5 gal. per min.

---

**How tested**: bailer test

---

**Length of test**: 60 min.

---

**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)

1. J. H. Brown, of Roundup, 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: 1912, Continuous use

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1912

8. The depth of water table: 200 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 425 ft. deep - Cased 200 ft.

10. The estimated amount of groundwater withdrawn each year: 300,000 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: J. H. Brown
Date: December 30, 1963

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

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

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

FILED THIS 31 DAY OF
DEC. A.D. 1965
AT 5:45 O'CLOCK P.M.

COUNTY RECORDER

FRANCIS L. MARMON
DEPUTY
<table>
<thead>
<tr>
<th>Field</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner</td>
<td>G. C. Turley</td>
</tr>
<tr>
<td>Address</td>
<td>Musselshell</td>
</tr>
<tr>
<td>Driller</td>
<td>Louis Forsh</td>
</tr>
<tr>
<td>Date Started</td>
<td>Nov 36</td>
</tr>
<tr>
<td>Date Completed</td>
<td>April 57</td>
</tr>
<tr>
<td>Location</td>
<td>Sec 14, T 17 R 34 sec 28</td>
</tr>
<tr>
<td>Type of well</td>
<td>Drilled</td>
</tr>
<tr>
<td>Equipment used</td>
<td>Churn Drill</td>
</tr>
<tr>
<td>Water use</td>
<td>□ Domestic □ Municipal □ Stock □ Irrigation</td>
</tr>
<tr>
<td>Industrial</td>
<td>□</td>
</tr>
<tr>
<td>Drainage</td>
<td>□</td>
</tr>
<tr>
<td>Other</td>
<td>□</td>
</tr>
<tr>
<td>Casing:</td>
<td>Surface to 110 ft. Type: Steel Size: 6 in</td>
</tr>
<tr>
<td>Casing:</td>
<td>□ ft. to □ ft. Type: □ Size: □</td>
</tr>
<tr>
<td>Casing:</td>
<td>□ ft. to □ ft. Type: □ Size: □</td>
</tr>
<tr>
<td>Perforated or Screened:</td>
<td>90 to 1 ft. Bottom to □ ft.</td>
</tr>
<tr>
<td>Type of screen or perforations</td>
<td>Drilled</td>
</tr>
<tr>
<td>Static Water level, for non-flowing well:</td>
<td>13 ft to Surface</td>
</tr>
<tr>
<td>Shut-in pressure, for flowing well:</td>
<td>□ lb/sq. in. on: □ (date)</td>
</tr>
<tr>
<td>Pumping water level:</td>
<td>□ around □ feet at □ gal. per min.</td>
</tr>
<tr>
<td>How tested</td>
<td>Failed</td>
</tr>
<tr>
<td>Length of test</td>
<td>Two hrs</td>
</tr>
<tr>
<td>Remarks:</td>
<td>(Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</td>
</tr>
<tr>
<td>Depth, feet</td>
<td>Description of Material Drilled</td>
</tr>
<tr>
<td>------------</td>
<td>---------------------------------</td>
</tr>
<tr>
<td>From</td>
<td>To</td>
</tr>
<tr>
<td>0 ft.</td>
<td>Shallow top sand</td>
</tr>
<tr>
<td>10 ft.</td>
<td>then</td>
</tr>
<tr>
<td>20 ft.</td>
<td>alternate layers shale and sand stone to 60 ft</td>
</tr>
<tr>
<td></td>
<td>then solid for about 50&quot;</td>
</tr>
<tr>
<td>10 ft.</td>
<td>shale</td>
</tr>
</tbody>
</table>
Owner: Gerald E. Liel  
Address: Musselshell

Driller: Self & Bell Beard  
Address: 

Date Started: June 27  
Date Completed: July 37

Location: Sec. 36, T. 9 N., R. 28 W., 1/4 sec. SE 1/4

Type of well: Pump

Equipment used: Shovel, pick, Dynamite

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

Industrial [ ]  
Drainage [ ]  
Other: [ ]

Casing: Surface ft. to 31 ft.  
Type: Rocked  
Size: 7 ft. across

Casing: 16 ft. to 7 ft.  
Type:  
Size:  

Casing: 7 ft. to 3 ft.  
Type:  
Size:  

Perforated or Screened: 3 ft. to 1 ft.  
Type:  
Size:  

Static water level, for non-flowing well:  

Shut-in pressure, for flowing well:  

Pumping water level:  

How tested: By use of  

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>Surface</td>
<td>Soil or washed-in soil</td>
</tr>
<tr>
<td>12'</td>
<td>Sand</td>
</tr>
<tr>
<td>just left</td>
<td>Sand &amp; went into shale</td>
</tr>
</tbody>
</table>
**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>Perry Miller</td>
</tr>
<tr>
<td>Address</td>
<td>Winnett</td>
</tr>
<tr>
<td>Date Started</td>
<td>June 1932</td>
</tr>
<tr>
<td>Date Completed</td>
<td>July 1932</td>
</tr>
<tr>
<td>Location</td>
<td>Sec. 18, T. 36, R. 28-1/4 sec. E</td>
</tr>
</tbody>
</table>

**Type of well:** Drilled

**Equipment used:** Churn Drill

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

**Industrial** [ ] Drainage [ ] Other [ ]

**Casing:**
- Depth: 120 ft.
- Type: Steel
- Size: 6 in.

**Perforated or Screened:**
- FT: 20 to 120 ft.
- Type: Punched, lined

**Static Water level, for non-flowing well:** 80 feet

**Shut-in pressure, for flowing well:** 0 lb./sq. in.

**Pumping water level:** 90 - 100 feet at 4 gal. per min.

**How tested:** Pumping

**Length of test:** 1 hour

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

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*over*
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
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<tbody>
<tr>
<td>0 - 10</td>
<td>hp soil</td>
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<tr>
<td>10 - 20</td>
<td>shale</td>
</tr>
<tr>
<td>20 - 30</td>
<td>sand alone some water</td>
</tr>
<tr>
<td>30 - 60</td>
<td>alternate shale &amp; sand lodeges</td>
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<tr>
<td>60 - 100</td>
<td>mostly sandstone &amp; water</td>
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<tr>
<td>100 - 120</td>
<td>shale &amp; stone</td>
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<td>Sec.</td>
<td>Name of Appropriator</td>
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<td>Bunsen Cattle Co.</td>
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<td>Name of Appropriator</td>
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<td>6</td>
<td>Murphy, Jr.</td>
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<td>10</td>
<td>Angeline Taylor</td>
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<td>11</td>
<td>Murphy, Jr.</td>
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<td>Shumard, Clayton</td>
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<td>14</td>
<td>Murphy, Jr.</td>
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<td>19</td>
<td>Turley, John E.</td>
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<td>Turley, Gerald</td>
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</table>
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Bar. U. Bar. Cattle Co., Inc. of Musselshell
(Name of Appropriator)
County of Musselshell, State of Montana
(Address) (Town)

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

2. The beneficial use on which the claim is based

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.
169232

STATE OF MONTANA
MUSSELHELL COUNTY,

FILED THIS 19 DAY OF
A. D. 1963
AT 2:12 O'CLOCK P.M.

B. H. MATZKE
COUNTY RECORDER

Elmer J. Brauer
DEPUTY
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater
Owner:
Contractor (if any):
Address of Contractor:
Date Started:
Date Completed:

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

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

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

Signature of Owner:
Date:

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

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

Charles E. White having first been duly sworn, deposes and says that he, of lawful age and...the appropriator...and claimant...of the order and water right mentioned in the foregoing notice of completion of groundwater appropriation without well and the person...whose name...subscribed thereto, as the appropriator...and claimant...that he...know...of the contents of said foregoing notice and that the matters and things therein stated are true.

Bar U Bar Cattle C.

by: Charles C. White

(Age. yrs)

Subscribed and sworn to before me, this 17 day of December 1963.

B. H. Matzke

Notary Public for the State of Montana.

My Commission expires: 19

FILED THIS 2-19-64, CLerk A.

B. H. Matzke

COUNTY RECORDER
## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

**Bar & Bar Cattle Co., Inc. at Musselshell**

**County of Musselshell**

**State of Mont.**

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

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

<table>
<thead>
<tr>
<th>Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.</th>
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<tbody>
<tr>
<td><img src="image" alt="Diagram of appropriation points" /></td>
</tr>
</tbody>
</table>

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

3. **Date or approximate date of earliest beneficial use; and how continuous the use has been:** 1958

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

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

7. **The estimated amount of groundwater withdrawn each year:** 100,000 yd

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

9. **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 available

**Filed for record this 19th day of December, A.D. 1963, at 9:00 a.m.**

**Bar & Bar Cattle Co., Inc.**

**Date:** 12/13/63

**Signature of Owner:**

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

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

For 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 Missoula

Charles C. While having first been duly sworn, deposes and says that he is of lawful age and is the appropriator and claimant of the order and water right mentioned in the foregoing declaration of vested groundwater rights and the person whose name is subscribed thereto, as the appropriator and claimant, that he knows the contents of said foregoing notice and that the matters and things therein stated are true.

[Signature]

Subscribed and sworn to before me, this 17th day of June, 1929

R. H. Matzke
Clerk and Recorder

Montana Public for the State of Montana

My Commission expires 19...
Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater unknown, prior to 1962

Owner: Bar B Cattle Address: Musselshell, Mont.

Contractor (if any): James H. Roberts

Address of Contractor: Roundup, Mont.

Date Started: 1961 Date Completed: 1961

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Spring cleaned-out by "Cat" - 10' wide, 200' long, pond storage, surface water

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

pond 10' wide x 150' long, 8' deep, used 8000 at each year for stock water

Signature of Owner: Charles C. Winter

Date: 12/12/62

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.