**DECLARATION OF VESTED GROUNDWATER RIGHTS**

(Under Chapter 237, Montana Session Laws, 1961)

1. **(Name of Appropriator)**
   
   (Address) **(Town)**

   County of **(County)**

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

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

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...

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

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 ground water...

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 The estimated amount of groundwater withdrawn each year...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

---

17346
STATE OF MONTANA,
MUSSELSHELL COUNTY,

FILED THIS 3d DAY OF
Dec. 2063
AT 4:05 O'CLOCK A.M.
B. H. MATZKE
COUNTY RECORDER

FANNIE J. HANSON
DEPUTY
DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

State of Montana
Administrator of groundwater Code
Office of State Engineer

I, Glen K. Boen, of Russell,
County of Missoula, State of Montana,

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

1. Name of Appropriator:..........................
   Address:.................................
   Town:....................................

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: Sept. 16, 1943.

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

   Sec. 11, Ch. 237, Mal. Code: If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof.

   Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.

5. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of ground water: Sept. 14, 1943.

6. The depth of water table: 30 ft.

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

8. The estimated amount of groundwater withdrawn each year: 3,000,000 gal.

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

10. 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: Glen K. Boen
   Date: Dec. 29, 1963.
STATE OF MONTANA, 
MUSSELSHELL COUNTY,

FILED THIS 30 DAY OF 
A.D. 1968 
AT 4:10 O'CLOCK P.M. 

COUNTY RECORDER

DEPUTY
# DECLARATION OF VESTED GROUNDWATER RIGHTS

(Under Chapter 237, Montana Session Laws, 1961)

1. **Name of Appropriator**: 
   **Address**: 
   **State**: 
   **County**: 
   **Date or approximate date of earliest beneficial use**: 
   **Amount of groundwater claimed**: 
   **Units of measurement**: 

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 count record**: 

---

**Signature of Owner**: 
**Date**: Dec. 24, 1963.
STATE OF MONTANA, MUSSELHELL COUNTY.

FILED THIS 30 DAY OF

A.D. 1963

AT 4:00 O'CLOCK P.M.

B. H. MATZKE
COUNTY RECORDER

FRANCES A. CLAWSON
DEPUTY
DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

1. [Name of Appropriator] [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: [Detail]

3. Date or approximate date of earliest beneficial use: [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 groundwater: [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 count record: [Details]

Signature of Owner: [Signature]
Date: [Date]
STATE OF MONTANA
MUSSELSHELL COUNTY.

FILED THIS 30 DAY OF

REE A.D. 1963

AT 4:15 O'CLOCK P.M.

B. H. MATZKE
COUNTY RECORDER

FRANCIS L. DREWSON
DEPUTY
DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws 1961)

1. 
Name of Appropriate: ............
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. Sec. 12, 1961 Rev. Stat. 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 count record

Signature of Owner

Date

STATE OF MONTANA,
MUSSELSHELL COUNTY,

FILED THIS 30th DAY OF
Dec. A.D. 19__
AT 4:30 O'CLOCK P.M.

B. H. MATZKE
COUNTY RECORDER

G. E. LOKENSON
DEPUTY
<table>
<thead>
<tr>
<th>Type of well drilled</th>
<th>Equipment used</th>
<th>Driller</th>
<th>Address</th>
<th>Date Started</th>
<th>Date Completed</th>
<th>Location</th>
</tr>
</thead>
</table>

- **Owner**: Sam Smading  
- **Address**: Musselshell

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

- **Date Started**: July 15, 1945  
- **Date Completed**: July 18, 1945

- **Location**: Sec. 12 T. 6N R. 26E 1/2 sec. S61

**Type of well drilled**: Churn drill  

**Equipment used**: Churn drill

**Water use**: Stock

**Casing**: 0 ft. to 40 ft. Type: Steel  
Size: 6 in.

**Casing**: 40 ft. to 110 ft. Type: Sandrock  
Size: 6 in. holes

**Perforated or screened**:ft. to ft.  
ft. to ft.

**Type of screen or perforations**: 

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

**Shut-in pressure, for flowing well**: 1 lb./sq. in.

**Pumping water level**: 105 feet at 3 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)
Form No. 18  

8-60

County: Musselshell

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

STATE ENGINEER

Water Well Log

<table>
<thead>
<tr>
<th>Owner</th>
<th>Driller</th>
<th>Address</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sam Smeding</td>
<td>Marsh &amp; Allen</td>
<td>Musselshell</td>
<td>Shepherd</td>
</tr>
</tbody>
</table>

Date Started: June 19, 1947  
Date Completed: June 22, 1947

Location: Sec. 12  
T 66  
R 26  
4 1/2 sec. NW

Type of well drilled: Churn drill  
Equipment used: Churn drill

Water use:  
- Domestic [X]  
- Municipal  
- Stock [X]  
- Irrigation [X]

- Industrial  
- Drainage  
- Other

Casing:  
- 0 ft. to 300 ft.  Type: carbonized  Size: 6 in.  
- ft. to ft.  Type:  Size:  
- ft. to ft.  Type:  Size:

Perforated or screened:  
- Ft. 140 to Ft. 149  
- Ft. 225 to Ft. 234

Type of screen or perforations: Slotted casing

Static water level, for non-flowing well: 140 feet.

Shut-in pressure, for flowing well: 140 lb./sq. in. on:

Pumping water level: 210 feet at 10 gal. per min.

How tested: Bailor test

Length of test: 4 hr.

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 GROUNDRATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1561)

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

   2. The beneficial use on which the claim is based

   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 count record.

Signature of Owner
Date
STATE OF MONTANA
MUSSEL-SKILL COUNTY

FILING: 30 — DAVIE
Dec. 24 1963
AT 4:20 O'CLOCK P.M.

H. H. MATZKE
COUNTY RECORDER

FRANCIS A. HAMMERS
DEPUTY
Form No. 18
8-60

County: Musselshell

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

Water Well Log

<table>
<thead>
<tr>
<th>Water Well Log</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner: Co-Owner</td>
</tr>
<tr>
<td>Driller: Louis Corbin</td>
</tr>
<tr>
<td>Date Started: Aug. 17, 1953</td>
</tr>
<tr>
<td>Location: Sec. 13 T. 17 N. R. 28 W.</td>
</tr>
</tbody>
</table>

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

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

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

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

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

Perforated or screened: Ft. ______ to Ft. ______ Ft. ______ to Ft. ______

Type of screen or perforations: ______

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

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

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

How tested: ______

Length of test: ______ hr.

Remarks: ______

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

(over)
**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.

OWNED BY: WALTER GEORGE SNIDER

Address: N. MONT. File: 187388

Date well started: 6-11-64

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:**

**12,000 GALLONS**

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size and Weight of casing</th>
<th>Top of Ground (Elev. above sea level)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 1/2</td>
<td>6 1/2</td>
<td>0</td>
<td>195</td>
</tr>
</tbody>
</table>

Static water level: 130 ft.

Pumping water level: 150 ft.

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

---

ENN. 1 Sec. 17

Driller’s Signature: J.E. LAMBIERS

Driller’s Address: 

**LICENSE UNKNOWN**

Show exact depth of bottom.

57,480
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.

WALTER GEORGE SNIDER
Address: WOODEN, MONT. Phone: 18/588.

Date well started: 6-2-64 (GW-1)
Completed: 6-10-64

Type of well: DRILLED

Equipment used: ROTARY (Drill, driven, bored or drilled)

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: 5000 GALLONS

--- Table ---

<table>
<thead>
<tr>
<th>Size of Well</th>
<th>Size of Drilled</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
<th>PERFORATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/8</td>
<td>6 5/8</td>
<td>0</td>
<td>242</td>
<td></td>
</tr>
</tbody>
</table>

--- Diagram ---

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

Driller's Signature: J. E. LAMMERS
Driller's Address: ____________________________ LICENSE NO. A.M.M. 2842

Top of Ground (Elev. above sea level)

<table>
<thead>
<tr>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Show exact depth of bottom
STATE OF MONTANA
MISSOURI COUNTY

FILED THIS _____ DAY OF
MAY 1912 A. D.

AT 4:30 O'CLOCK A.M.

CLAUDE F. FLETCHER
COUNTY RECORDER

DEPUTY
<table>
<thead>
<tr>
<th>Sec.</th>
<th>Name of Appropriator</th>
<th>Type of Form</th>
<th>County File No.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>O'Brien, Raymond &amp; Amy</td>
<td>GW4</td>
<td>169196</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>O'Brien, Stephen</td>
<td>GW3</td>
<td>169651</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>O'Brien, Raymond &amp; Amy</td>
<td>GW4</td>
<td>169199</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Hurley, Gerald</td>
<td>57106</td>
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<td></td>
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<td>5</td>
<td></td>
<td>57106</td>
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<td></td>
</tr>
<tr>
<td>6</td>
<td>Hudson, Merle</td>
<td>GW1</td>
<td>169668</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Hurley, Gerald</td>
<td>57106</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>O'Brien, Raymond &amp; Amy</td>
<td>GW4</td>
<td>169195</td>
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<tr>
<td>9</td>
<td></td>
<td>57106</td>
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<td></td>
<td>57106</td>
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<tr>
<td>12</td>
<td>Walker, George</td>
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<td>164909</td>
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<td>57106</td>
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<td>14</td>
<td>O'Brien, Raymond &amp; Amy</td>
<td>GW4</td>
<td>169198</td>
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<tr>
<td>15</td>
<td>Spindler, Sam</td>
<td>57106</td>
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<td>16</td>
<td>Koen, Glen K</td>
<td>GW4</td>
<td>169593</td>
<td></td>
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<tr>
<td>17</td>
<td>O'Brien, Raymond &amp; Amy</td>
<td>GW4</td>
<td>169197</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td></td>
<td>GW4</td>
<td>169200</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Hudson, Merle</td>
<td>57106</td>
<td>165224</td>
<td></td>
</tr>
</tbody>
</table>
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

L. REYNOLDS R. Y. STEPHEN S. O'BRIEN, of MUSSELHELL

County of MUSSELHELL 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: STOCK WATER

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: WELL DRILLED IN 1952, OR 1953, AND USED WHEN NEEDED

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: PUMP WITH CYLINDER AND PINS, LOCATED ON THE SWY OF THE NE 1/4 OF SE 1-6-29

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: WELL DRILLED IN 1952 OR 1953 BY FARMER

8. The depth of water table: ABOUT 60 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: 2 INCH CYL., 14 INCH PIPE AND STEEL PINS, WINDMILL AND PUMP-JACK WITH GAS MOTOR, DEPTH OF WELL ABOUT 60 FT

10. The estimated amount of groundwater withdrawn each year: 200,000 GALLONS

11. The log of formations encountered in the drilling of each well if available: NOT AVAILABLE

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

Signature of Owner: STEPHEN S. O'BRIEN
Date: Dec 19, 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 17TH DAY OF SEPTEMBER, 1940

B. H. MATZKE
COUNTY RECORDER

MUSSELSHELL
MONTANA

[Handwritten text not legible]
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: 1956
Owner: STEPHEN O'BRIEN. Address: MISSOULA, MONT.
Contractor (if any): NO
Address of Contractor: NO
Date Started: ABOUT AUG. 15; Date Completed: ENLARGED JUNE OF 1961

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. OPEN WATER HOLE FOR STOCK WATER DEVELOPED BY COUNTY WHEN OBTAINING GRAVEL FOR ROADS ON THE CHANNEL OF THE DRY FORK OF HAWK CREEK.

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.

WATER HOLE ABOUT 40 FT. IN WIDTH BY 80 FT. LONG. ABOUT 4 OR 5 FT. TO WATER FROM GROUND LEVEL AND 4 OR 5 FT. DEEP OR LESS DEPENDING ON WATER TABLE. WATER 304YPR FOR STOCK WATER.

Signature of Owner: STEPHEN O'BRIEN
Date: Dec. 9, 1961

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

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

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

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

FILED THIS 31 DAY OF
DECEMBER A.D. 1965
L.T. 12:00 O'Clock

H. H. MATZKE
COUNTY Recorder

FRANCES L. DAWSON
200
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

AMY E. RAYMOND R. STEPHEN O'BRIEN
(Name of Approprietor) (Town)

MUSSELHELL
(County of) (Address) (State of)

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: Nov 11, 1963

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

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

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

**Owner:** Gerard C. Turley  
**Address:** Missoula

**Driller:** J. J. Cerny  
**Address:** Missoula

**Date Started:** July 1969  
**Date Completed:** June 1979

**Location:** Sec. 7, T. 69 N., R. 72 E., 4th. ed. 21, 26

<table>
<thead>
<tr>
<th>Type of well</th>
<th>Equipment Used</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(Drill, driven, bored, or drilled)</td>
</tr>
</tbody>
</table>

**Water use:** Stock  
**Type of screen or perforations:** Factory furnished

**Casing:** 20/40 ft. to 152 ft.  
**Type:** Iron  
**Size:** 20 gauge - 8 inch

**Casing:** 152 ft. to 252 ft.  
**Type:** Iron  
**Size:** 20 gauge - 6 inch

**Perforated or screened:** 152 ft. to 252 ft.

**Static Water level, for non-flowing well:** 152 feet

**Shut-in pressure, for flowing well:** 12 lb./sq. in. on: (date)

**Pumping water level:** 235 feet at 5 gal. per min.

**How tested:** Drilling with drill rig

**Length of test:** 3 weeks boring into stock water tank

**Remarks:** (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 to 5</td>
<td>sandy loam</td>
</tr>
<tr>
<td>5 to 38</td>
<td>sandy shale</td>
</tr>
<tr>
<td>38 to 58</td>
<td>blue shale</td>
</tr>
<tr>
<td>58 to 62</td>
<td>coal</td>
</tr>
<tr>
<td>62 to 82</td>
<td>blue shale</td>
</tr>
<tr>
<td>82 to 87</td>
<td>hard sand rock</td>
</tr>
<tr>
<td>87 to 97</td>
<td>stiff brown shale</td>
</tr>
<tr>
<td>97 to 119</td>
<td>blue shale</td>
</tr>
<tr>
<td>119 to 127</td>
<td>dirty coal &amp; shale</td>
</tr>
<tr>
<td>127 to 157</td>
<td>layers of sand rock &amp; shale</td>
</tr>
<tr>
<td>157 to 205</td>
<td>blue shale</td>
</tr>
<tr>
<td>205 to 235</td>
<td>grey sand rock</td>
</tr>
<tr>
<td>235 to 251</td>
<td>&quot; &quot; &quot;</td>
</tr>
<tr>
<td>251 to 252</td>
<td>blue shale</td>
</tr>
</tbody>
</table>
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>
</tr>
</thead>
<tbody>
<tr>
<td>HERMAN E. ZUZAS</td>
<td>MUSSELDELL</td>
<td>LUCIUS CONRIG</td>
<td>YOGO</td>
</tr>
</tbody>
</table>

Date Started: DEC 56  Date Completed: NOV 56

Location: Sec. 5  T. 6  R. 29.  1/4 sec. W.E

Type of well: Drilled  Equipment used: churn drill

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

Industrial [ ]  Drainage [ ]  Other: [ ]

Casing: Surface to ft. 18  Type: steel  Size: 6 in.

Casing: ft. to ft.  Size:  [ ]

Perforated or Screened: Ft. 1/8 to ft. 2/8  Type: drilled  Size: [ ]

Type of screen or perforations: [ ]

Static Water level, for non-flowing well: 100 ft.

Shut-in pressure, for flowing well: [ ]

Pumping water level: [ ]

How tested: [ ]

Length of test: [ ]

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

(over)
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>alternate shale sand</td>
</tr>
<tr>
<td></td>
<td>some coal</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. Name and Address of Appropriator
   Merle Hudson
   123 Main St.
   Wilsall, Montana

County of Wilsall
State of Montana

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been:
   1939
   Continuously

4. The amount of groundwater claimed (in miner's inches or gallons per minute):
   20 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:
   10 acres
   Field #1
   John Doe

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal:
   Pump
   Well #1

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
   1927

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:
   3 in. Diameter
   100 ft. Depth

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

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

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.
<table>
<thead>
<tr>
<th>Date Started</th>
<th>Date Completed</th>
<th>Location: Sec.</th>
<th>T.</th>
<th>R.</th>
</tr>
</thead>
</table>

- **Type of well**: Drilled
- **Equipment used**: Brooks drill
- **Water use**: Stock
- **Casing**: 23 ft. to 78 ft. Type: Steel, Size: 6 ins.
- **Perforated or Screened**: Drilled
- **Static Water level, for non-flowing well**: 0 ft.
- **Shut-in pressure, for flowing well**: 0 lb./sq. in. on: (date)
- **Pumping water level**: 15 feet at 48 gal. per min.
- **How tested**: Barling
- **Length of test**: Confined
- **Remarks**: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)
## Log of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 10</td>
<td>Top soil &amp; chalcedony</td>
</tr>
<tr>
<td>10 to 18</td>
<td>gravel, mixed water</td>
</tr>
<tr>
<td>18 to 40</td>
<td>alternate chalced &amp; sandstone</td>
</tr>
<tr>
<td>40 to 48</td>
<td>hard sandstone, mixed water</td>
</tr>
<tr>
<td>48 to 78</td>
<td>same,</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 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
    AND GENERAL FARM USE

3. Date or approximate date of earliest beneficial use, and how continuous the use has been: WELL IN USE OVER 50 YEARS
    CONTINUOUSLY AT FARM BUILDINGS

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

5. If used for irrigation, give the area and description of the lands to which water has been applied and name of the owner thereof: NOT USED FOR IRRIGATION

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: PUMP WITH CYLINDER AND RAMS, LOCATED ON THE S.E. OF THE SW. 1/4 SE. OF THE SW. 1/4 OF SEC. 10-6-24

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: COMMENCEMENT AND COMPLETION DATE NOT KNOWN

8. The depth of water table: LESS THAN 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: 3 INCH C/I, 10 INCH I/D, AND STEEL RAMS.
    PUMP SACK AND ELECTRIC MOTOR, WELL DRILLED TO 300 FT BUT HAS 20 FT OF PIPE IN IT ACCORDING TO INFORMATION

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

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 RECORD KNOWN

Signature of Owner: Stephen S. O'Brien
Date: Dec 17, 1963

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

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

Original to the County Clerk and Recorder; Duplication to the State Engineer; Tripllicate 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. AMY E. RAY AND RAY STEPHEN S. GOREN, of MUSSEL SHELL
   (Name of Appropriator) (Address) (Town)

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: HOUSEHOLD, LAWN, GARDEN USE, OCCASIONALLY FOR STOCK.

3. Date or approximate date of earliest beneficial use and how continuous the use has been: MARCH 1ST OF 1961 AND USED CONTINUOUSLY SINCE.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 15 TO 20 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: NOT USED FOR IRRIGATION.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: JACUZZI JET SPRAY PRESSURE SYSTEM LOCATED ON SEW. SW. 1/4 OF SEC. 11, T. 16 N., R. 10 W.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: WELL COMMENCED JULY 1960 AND COMPLETED DEC. 1960.

8. The depth of water table: ABOUT 16 FT.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater: WELL HAS A JACUZZI JET SPRAY PRESSURE SYSTEM, IT WAS DRILLED TO A DEPTH OF 60 FT. THERE IS 40 FT. OF PLASTIC PIPE DOWN IN IT, CAPACITY OVER 60 GAL PER MINUTE.

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

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 RECORD.

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

Date: Dec 17, 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
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

Any E. Raymond, Stephen S. O'Brien, of Musselshell
(Name of Appropriator) (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: WELL DRILLED IN 1957 AND CONTINUOUSLY SINCE

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: PUMP WITH CYLINDER AND ROPE, LOCATED ON THE SE 1/4 OF THE NW 1/4 OF SEC. 11 T. 6 N. R. 29

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: WELL DRILLED IN JULY OF 1957

8. The depth of water table: ABOUT 38 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 INCH CASING, 2 INCH PIPE, AND STEEL RODS, PUMP, JACO AND ELECTRIC MOTOR, DEPTH OF WELL ABOUT 32 FT

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: CLAY AND SANDSTONE AT 35 FT, SHALE AND WATER AT 60 FT, 5 GAL. PER MIN., BLUE SANDSTONE AND SHALE WITH WATER AT 50 FT, WITH WATER AT 15 GAL. PER MINUTE

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 RECORD KNOWN

Signature of Owner: ____________________________
Date: December 17, 1963

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.
STATE OF MONTANA, COUNTY OF MISSOURI
COUNTY SHEET 1

PUBLISHED AT
B E MAURICE
COUNTY RECORDER

FILMED AT
A D 1909
DEPARTMENT

A. D. 1909

AT 9:30 O'CLOCK
A. M.

DEPUTY

C. C. MATZK
COUNTY RECORDER

168149

WILLIAM
Form No. 18

<table>
<thead>
<tr>
<th>Water Well Log</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Owner</strong>: Geo J. Walker</td>
</tr>
<tr>
<td><strong>Driller</strong>: Challis &amp; Thistle</td>
</tr>
<tr>
<td><strong>Date Started</strong>: July 1</td>
</tr>
<tr>
<td><strong>Location</strong>: Sec. 12, T. 6, R. 29</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Casing:</th>
<th>100 ft. to 150 ft.</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing:</td>
<td>75 ft. to 120 ft.</td>
<td>Type</td>
<td>Size</td>
</tr>
<tr>
<td>Casing:</td>
<td>121 ft. to 150 ft.</td>
<td>Type</td>
<td>Size</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Perforated or screened:</th>
<th>16 ft. to 42 ft.</th>
<th>43 ft. to 57 ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(8 1/2 in.)</td>
<td>(6 1/2 in.)</td>
<td>(6 1/2 in.)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Static water level, for non-flowing well:</th>
<th>25 feet from top</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shut-in pressure, for flowing well:</td>
<td>lb. / sq. in. on:</td>
</tr>
<tr>
<td>Pumping water level</td>
<td>85 feet at 3 gal. per min.</td>
</tr>
<tr>
<td>How tested:</td>
<td>Bailed with sand &amp; rocket</td>
</tr>
<tr>
<td>Length of test:</td>
<td>Until the flow was caught &amp; tested</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>From</th>
<th>To</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>5</td>
<td>Dirt</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
<td>15</td>
<td>Clay</td>
</tr>
<tr>
<td>15</td>
<td>15</td>
<td>17</td>
<td>Gravel</td>
</tr>
<tr>
<td>17</td>
<td>17</td>
<td>25</td>
<td>Brown Sand Rock</td>
</tr>
<tr>
<td>25</td>
<td>25</td>
<td>35</td>
<td>Blue Shale</td>
</tr>
<tr>
<td>35</td>
<td>35</td>
<td>40</td>
<td>Hard rock</td>
</tr>
<tr>
<td>40</td>
<td>40</td>
<td>47</td>
<td>Grey sand rock + Blue Shale</td>
</tr>
<tr>
<td>47</td>
<td>47</td>
<td>74</td>
<td>Blue Shale + Shale rock</td>
</tr>
<tr>
<td>74</td>
<td>74</td>
<td>89</td>
<td>Grey sand Rock</td>
</tr>
<tr>
<td>89</td>
<td>89</td>
<td>90</td>
<td>Coal</td>
</tr>
<tr>
<td>90</td>
<td>90</td>
<td>102</td>
<td>Grey Shale rock</td>
</tr>
<tr>
<td>102</td>
<td>102</td>
<td>104</td>
<td>Coal</td>
</tr>
<tr>
<td>104</td>
<td>104</td>
<td>123</td>
<td>Grey sand rock</td>
</tr>
<tr>
<td>123</td>
<td>123</td>
<td>135</td>
<td>Blue Shale</td>
</tr>
<tr>
<td>135</td>
<td>135</td>
<td>140</td>
<td>Grey sand rock</td>
</tr>
<tr>
<td>140</td>
<td>140</td>
<td>150</td>
<td>Blue Shale</td>
</tr>
</tbody>
</table>

Water at 40' 54' 89'1 totaling 3 gals a min.

[Signature]

W. H. Mott, Surveyor
WATER WELL LOG

<table>
<thead>
<tr>
<th>Owner:</th>
<th>Sec. T. R. Address:</th>
<th>Drill:</th>
<th>Date Started:</th>
<th>Date Completed:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joe J. Walker</td>
<td>Musselshell, Mont</td>
<td>Pat Ferguson</td>
<td>June 2, 1957</td>
<td>June 29, 1957</td>
</tr>
</tbody>
</table>

Location: Sec. 12 T. 6 R. 29 1/4, Butte, Montana

Type of well: | Equipment used: |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dug</td>
<td>Churn</td>
</tr>
</tbody>
</table>

Water use: | Domestic | Plumbing |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Stock</td>
<td>Irrigation</td>
<td></td>
</tr>
</tbody>
</table>

Casing: ft. to ft. Type: Size:

Perforated or Screened: Ft. to Ft. Type: Size:

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

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

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

How tested: 

Length of test: // in.

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 - 30</td>
<td>Clay with gravel + sand</td>
</tr>
<tr>
<td>30 - 45</td>
<td>Sandstone (420)</td>
</tr>
<tr>
<td>45 - 50</td>
<td>Shale</td>
</tr>
<tr>
<td></td>
<td>Sand</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 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.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 3 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 the 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: Dec. 17, 1963

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

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

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropirator.
<table>
<thead>
<tr>
<th>Field</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>County</td>
<td>Musselshell</td>
</tr>
<tr>
<td>Owner</td>
<td>Sam Smading</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>Oct. 1, 1955</td>
</tr>
<tr>
<td>Date Completed</td>
<td>Oct. 15, 1955</td>
</tr>
<tr>
<td>Location</td>
<td>Sec. 18, T. 6N, R. 29S 1/4 sec. 167</td>
</tr>
<tr>
<td>Type of well drilled</td>
<td>Churn drill</td>
</tr>
<tr>
<td>Equipment used</td>
<td>Churn, drill, rotary, other</td>
</tr>
<tr>
<td>Water use</td>
<td>Domestic, municipal, stock, irrigation</td>
</tr>
<tr>
<td>Casing</td>
<td>Galvanized, size 6 in.</td>
</tr>
<tr>
<td>Casing</td>
<td>Galvanized, size 6 in.</td>
</tr>
<tr>
<td>Casing</td>
<td>Galvanized, size 6 in.</td>
</tr>
<tr>
<td>Perforated or screened</td>
<td>Ft. 187 to Ft. 195</td>
</tr>
<tr>
<td>Type of screen or perforations</td>
<td>Galvanized screen casing</td>
</tr>
<tr>
<td>Static water level</td>
<td>For non-flowing well: 150 feet</td>
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<tr>
<td>Shut-in pressure</td>
<td>For flowing well: lb./sq. in. on: (date)</td>
</tr>
<tr>
<td>Pumping water level</td>
<td>185 feet at 7 gal. per min.</td>
</tr>
<tr>
<td>How tested</td>
<td>Booster test</td>
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<td>Length of test</td>
<td>90 min.</td>
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<tr>
<td>Remarks</td>
<td>(Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</td>
</tr>
</tbody>
</table>
DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

Name of Appropriator ____________________________________________
Address _______________________________________________________
Town ______________________ County of ___________________________
State of _______________________________

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

1. ____________________________ of __________________________
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. NE.1...Sec.16...T.6.N.R.29.E
   Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.
6. The depth of water table ______________________
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater ______________________
8. The estimated amount of groundwater withdrawn each year ______________________
9. The log of formations encountered in the drilling of each well if available ______________________
10. 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 _______________...1964___

T 6 N R 29 E
STATE OF MONTANA,
MUSULSHELLS COUNTY.

FILED THIS 20 DAY OF
A.D. 1962
AT 2:25 O'CLOCK P.M.

B. H. MATZK
COUNTY RECORDER

FRANCIS THOMSON
RECORDER
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

NAME: Raymond P. O'Brien
(Address) Musselshell
(Town)
County of Yellowstone, State of Montana

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been: Drilled in 1933 and used continuously during spring, summer, and fall months

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: Pump with cylinder and rods, located on the NW 1/4 of the SW 1/4 of Sec. 19-6-29

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: Well Drilled in July of 1933

8. The depth of water table: About 400 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" inch cyf, 2" inch pipe, and wood rods, pump jack and electric motor, depth of well about 400 ft.

10. The estimated amount of groundwater withdrawn each year: 200,000 Gal.

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: Appropriate

Signature of Owner: Raymond P. O'Brien
Date: Nov. 17, 1963

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

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

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

FILED THIS 17TH DAY OF
A. D. 19
AT 3:45 O'CLOCK P.M.

B. H. MATZKE
COUNTY RECORDER

Deputy

169197

AND ENTRANCE 
TO THE

A. C. Newhouse

/clouds.jpg
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

Amy E. Raymond, Stephen O'Brien
(Name of Appropriator) (Address) (Town)

County of Yellowstone State of Montana

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

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

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been:
   EARLIEST DATE NOT KNOWN. BUT USED CONTINUOUSLY DURING SPRING, SUMMER AND FALL MONTHS SINCE BEFORE 1967.

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal:
   Pump with Cylinder and Rods on the Way of Swy of Sec 24, T. 6, R. 29.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
   COMENCEMENT AND COMPLETION DATE OF WELL: NOT KNOWN.

8. The depth of water table: ABOUT 240 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:
   14 INCH CYL, 2 INCH PUMP AND WOOD RODS, PUMP, SACK AND ELECTRIC MOTOR, DEPTH OF WELL ABOUT 200 FT.

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: 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 RECORD KNOWN.

Signature of Owner: _______________________________
Date: Dec 17, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located. Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology; and Quadruplicate for the Appropriator.
Form No. 18

8-60

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

Water Well Log

Owner

State Engineer

Driller

Date Started

Date Completed

Location: Sec. T. R. sec.

Type of well

Equipment used

Water use:

Domestic

Municipal

Stock

Irrigation

Industrial

Drainage

Other

Casing: ft. to ft. Type

Size

Casing: ft. to ft. Type

Size

Casing: ft. to ft. Type

Size

Perforated or screened: Ft. to Ft.

Type of screen or perforations

Static water level, for non-flowing well:

feet.

Shut-in pressure, for flowing well:

lb./sq. in. on:

Pumping water level:

feet at gal. per min.

How tested:

Length of test:

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

(over)
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<thead>
<tr>
<th>Depth, feet</th>
<th>From</th>
<th>To</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
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<td>0</td>
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<td></td>
<td>Dirt</td>
</tr>
<tr>
<td>24</td>
<td>30</td>
<td></td>
<td>Clay</td>
</tr>
<tr>
<td>30</td>
<td>40</td>
<td></td>
<td>Shale Water at 260</td>
</tr>
<tr>
<td>40</td>
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<tr>
<td>78</td>
<td>100</td>
<td></td>
<td>Hard Rock</td>
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<tr>
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<td>115</td>
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<td>Coal</td>
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<tr>
<td>116</td>
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<td>Shale</td>
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<tr>
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<td>225</td>
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<td>Shale</td>
</tr>
<tr>
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<td>286</td>
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<td>Rock</td>
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Depth of hole 286, 6 gal/min
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<th>County File No.</th>
<th>Remarks</th>
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<tr>
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<td>Gw2</td>
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MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner: Victor Stephens
Address: Fairview

Driller: L.O. Anderson
Address: Butte

Date Started: 1/1/1952
Date Completed: 1/31/1952

Location: Sec. 13 T. 5 R. 24 1/4 sec. N.E.

Type of well: Drilled
Equipment used: Cable

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

Casing: Surface: ft. to 100 ft. Type: galv. Size: 6 in.

Casing: ft. to ft. Type: Size:

Casing: ft. to ft. Type: Size:

Perforated or Screened: Ft. to Ft. to Ft. to Ft.

Type of screen or perforations:

Static Water level, for non-flowing well: 40 ft.

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

Pumping water level: 70 feet at 8 gal. per min.

How tested:

Length of test:

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

(over)
**WATER WELL LOG**

**Owner:** Dora Stimson  
**Address:** Butte, Montana

**Driller:** Clyde Sanders  
**Address:** Butte, Montana

**Date Started:**  
**Date Completed:** Sept. 9, 1957

**Location:** Sec. NE 44 1/4 R. 24 1/4 Sec. 13

**Type of well:** Water well

**Equipment used:** Cable

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

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

**Perforated or Screened:** Ft. to ft. to ft. Ft. to ft.

**Type of screen or perforations:**

**Static Water level, for non-flowing well:** 35 feet from top

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

**Pumping water level:** 1.35 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>0 - 14</td>
<td>sand</td>
</tr>
<tr>
<td>14 - 45</td>
<td>sand and rock</td>
</tr>
<tr>
<td>45 - 138</td>
<td>gray sand</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)

M. G. Stephenson, of Rural Route 2, Havina,
County of Musselshell, State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

1. The beneficial use on which the claim is based: House, Stock, Irrigation

2. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1936, Continuous to the present date

3. The amount of groundwater claimed (in miner's inches or gallons per minute): 60 gallons per minute

4. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof: 40 acres, garden, M. G. Stephenson

5. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: Pump, Jack, Electric motor

6. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1936

7. The depth of water table: 50 feet

8. The log of formations encountered in the drilling of each well if available: 10 feet soil, 10 feet sand and gravel, 10 feet shale, 30 feet sandstone

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

Signature of Owner: M. G. Stephenson
Date: June 13, 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.