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: Bar L Bar Cattle Address: Musselshell, Mont.
Contractor (if any): George Lieb Hansen
Address of Contractor: Roundup, Mont.
Date Started: 1952 Date Completed: 1952

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable: Spring cleaned by "cat" 6' deep, pond made 19' wide x 50' long, 18' x 12' wooden box around flow.

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: Storage pond 10' x 10', 4' deep, used 8 months each year.

Signature of Owner: Bar L Bar Cattle Co.
Date: 12/13/63

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

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

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

 STATE ENGINEER

1. Bar U Bar Cattle Co., at Musselshell
   (Name of Appropriator)
   (Address)
   (Town)
   have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

   N
   W
   E
   S
   N.W.1/4, Sec. 3, T. 7, R. 27

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

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

   3. Date or approximate date of earliest beneficial use; and how continuous the use has been: 1951.

   4. The amount of groundwater claimed (in miner's inches or gallons per minute): 9.9 gal. per minute.

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

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

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: 1951.

   8. The depth of water table: 100 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:
   - 53' 7' of casing
   - 12' 2' of tubing
   - 3' 4' of water pump
   - 3' 4' of motor

   10. The estimated amount of groundwater withdrawn each y: 200 gal.

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

   12. Such other information of a similar nature as may be used: trying out the policy of this act, including reference to book and page of any county record: none available.

   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,
MUSEL-SHELL COUNTY.

FILED THIS 19 DAY OF [illegible]
A.D. 1963 AT 2:09 O'CLOCK P.M.

B. H. MAYZKE
COUNTY RECORDER

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

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

1. Bar U Bar Cattle Co, Inc 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, 1963, as follows:

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: 1952

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: Pump jack & gasoline motor

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

8. The depth of water table: 70 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: 200 ft. deep

10. The estimated amount of groundwater withdrawn each year: 100,000 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 available

Signature of Owner: Charles U. Smith
Date: 8/11/53

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. G. K. Murphy  of  Musselshell
   County of  Musselshell  State of  Montana

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
   Unknown early domestic water use in area equally used

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
   Pump with 270 ft pipe 6 in. casing to unknown depth

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

8. The depth of water table
   About 240

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

10. The estimated amount of groundwater withdrawn each year
    800,000 gal

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

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

Signature of Owner: G. K. Murphy
Date: Dec. 19, 1962

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

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

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

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

1. G. K. Murphy, of Musselshell, Mont.
   (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:
   1959 seasonal each year

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal:
   Drilled Mar. 12 to Mar. 20, 1962

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
   Drilled Mar. 12 to Mar. 20, 1962

8. The depth of water table:
   116 ft

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater:
   6 in. casing to 511 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:
    0 - 20 shale 20 coal
    40 shale, 30 sandstone 30 shale 90 sandstone, water layer 116, 155 shale
    200 sandstone (contains water) 511 sandy shale, bottom

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. 29, 1962

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

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

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

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

1. G. K. Murphy, of Musselshell

County of Musselshell State of Montana

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

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

3. Date or approximate date of earliest beneficial use; and how continuously the use has been persisted after 1961
   Each season except 1962

4. The amount of groundwater claimed (in miner's inches or gallons per minute): 25 gpm.

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
   Pump
   Sec. 16, T. 78 N., R. 29 E.

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

8. The depth of water table: 450 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:
   SU/100/1150/1250/1750/18/9

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. 0 to 250 unknown
   250 to 255 shale, 255 to 260 sand, 260 to 265 coal, 265 to 265 shale
   265 to 270 sand, 270 to 275 sand, 275 to 330 sand, 330 to 335 sandy shale, 335 to 370 water sand.
   340 to 350 shale.

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.
   Old well was unproductive decomposed in 1955

Signature of Owner: ___________________________
Date: Dec. 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 Approprietor.
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 1960
Owner: G. K. Murphy Address: Musselshell, Mont.
Contractor (if any) JEFF Roberts
Address of Contractor: Roundup, Montana

Date Started: Fall 1960 Date Completed: Fall 1960

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Dugout that hit a water
boring sandstone at about 8 to 10 ft. water
25 ft. deep on East side.

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.

150,000 gal. 75 steers @ 10 gal. for 200 days.

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

Signature of Owner: G. K. Murphy
Date: Dec. 29, 1962

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

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the School of Mines and quadruplicate for the Appropriator.
Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: 1960
Owner: St. K. Murphy, Address: Musselshell, Mont.
Contractor (if any): Orr Roberts, Address of Contractor: Roundup, Montana
Date Started: Fall 1960, Date Completed: Fall 1960

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Dugout that hit a waterbearing sandstone at about 8 to 10 ft. water 24 ft. deep on east side.

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. 150,000 gal., 75 steers @ 10 gal. for 200 days.

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

Signature of Owner: Date: Dec. 29, 1962

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

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

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

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

Instructor of Groundwater Code

Office of State Engineer

ration of Vested Groundwater Rights

1r Chapter 237, Montana Session Laws, 1961

Filed for record this 15th day of March, 1973, at 2:30 clock.

of Musselshell, Montana 59059

(State or Town)

Address)

1. The name of the claimant or other person to whom the claim is made.

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

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute). 10 Gallons per minute (either party is entitled to at least 16 one half but may use any surplus not needed by the other.)

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

On line between sections 9 and 10 and about 1/2 mile north of South line. Sec...

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

Motor & Jack.

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 ft from surface.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. Hand dug 6 ft. square. 14 in pipe to pump.

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

11. The log of formations encountered in the drilling of each well if available. O to 6 ft. sand & clay

10 to 15 ft. black shale.

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

Signature of Owner. Angelina Taylor

Date March 1, 1973

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

This well is believed to be ADMINISTRATOR OF GROUNDWATER CODE
owned by Angelina Taylor and
section 9 owned by

DECLARATION OF VESTED GROUNDWATER RIGHTS

G. K. & Margaret K. Murphy
all of Musselshell, Mont.

Under Chapter 237, Montana Session Laws, 1962

Angelina Taylor
1. G. K. & Margaret K. Murphy
(State of Appropriator)

of Musselshell, Montana 59359
(Town)

County of Musselshell
(State of Montana)

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

1. On line between sections 9 and 10
and about 2 mile north of South line

4 1/2 Sec. T 7 N R 29 E

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

2. The beneficial use on which the claim is based Stock Domestic & Irrigation of garden

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Fall 1936 and continuously thereafter.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 30 Gallons per minute (either party is entitled to at least 25 one half but may use any surplus not needed by the other)

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 Pump Motor & Jack

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

8. The depth of water table 17 ft from surface

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Hand dug 8 ft square — 14 in pipes to pump

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 0 to 6 ft. sand & clay

6 to 10 ft. Sandstones — 10 to 12 ft. blue shale

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record not applicable.

Signature of Owner Angelina Taylor
Date March 1, 1973

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

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

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

FILED THIS____/_____________DAY OF

March A. D. 1923

AT____/2:30____OCLOCK P.M.

Clarence S. Hatch
COUNTY RECORDER

Deputy
**WATER WELL LOG**

<table>
<thead>
<tr>
<th>Owner</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Angelina Taylor</td>
<td>Munsel Hill Road</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Driller</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lacy Taylor</td>
<td>Munsel Hill Road</td>
</tr>
</tbody>
</table>

**Date Started**: 1941  
**Date Completed**: 1941

**Location**: Sec. 16 T. 7 R. 29 W. 5 Sec. 16, T. 7 R. 29 W. 4

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

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

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

**Casing**: 40 ft. to 2.5 ft.  
Type: Clay  
Size: 4 in.

**Casing**: 3.5 ft. to 7.0 ft.  
Type:  
Size:  

**Casing**: 7.0 ft. to 11.0 ft.  
Type:  
Size:  

**Perforated or Screened**: 0 ft. to 4 ft.  
Ft. to ft.  

**Type of screen or perforations**:  

**Static Water level, for non-flowing well**:  
Heft from bottom feet.

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

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

**How tested**:  

**Length of test**:  

**Remarks**: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)  
This well has a very slow flow of water. [Poor Well]

---

(over)
### Log of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 25</td>
<td>Sand + clay</td>
</tr>
<tr>
<td>25 - 70</td>
<td>Intermittent layers of sandstone &amp; shale</td>
</tr>
</tbody>
</table>
## WATER WELL LOG

**Owner:** Angeline Taylor  
**Address:** Mosselsheim Montana  
**Driller:** Lacy Taylor  
**Address:** Mosselsheim Montana  
**Date Started:** June 30, 1959  
**Date Completed:** Nov 10, 1959  
**Location:** Sec 34 T. 7 R. 29 W. 4 S.  

### Type of well
- **Drilled** (Bore, driven, or drilled)  
- **Equipment used:** Churn drill

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

### Casing
- **Casing:** 0 ft. to 7 11/16 ft.  
- **Type:** Galvanized  
- **Size:** 4 in.

### Perforated or Screened
- **Perforated or Screened:** 0 ft. to 7 11/16 ft.  
- **Type:**  
- **Size:**

### Static Water level, for non-flowing well
- **From Surface:** 12 ft.

### Shut-in pressure, for flowing well
- **Pressure:** 15 lb./sq. in. on:  
- **Date:**

### Pumping water level
- **From Surface:** 2 3/8 ft.  
- **Rate:** 6 gal. per min.

### How tested
- **Bailing**

### Length of test
- 1 hour

### 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>0-7</td>
<td>Dirt</td>
</tr>
<tr>
<td>7-31</td>
<td>Sandstone</td>
</tr>
<tr>
<td>31-32</td>
<td>Coal</td>
</tr>
<tr>
<td>32-33</td>
<td>Very Hard Rock</td>
</tr>
<tr>
<td>33-36</td>
<td>Blue Shale</td>
</tr>
<tr>
<td>35-38</td>
<td>Sandstone</td>
</tr>
</tbody>
</table>
**WATER WELL LOG**

**Owner:** ANGELINE TAYLOR  
**Address:** MISSOULA, MONT.

**Driller:** LACY TAYLOR  
**Address:** MISSOULA, MONT.

**Date Started:** JUNE 1958  
**Date Completed:** OCT. 9-1969

**Location:** Sec. 10, T. 7 R. 29 1/4 sec.  

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

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

**Casing:**  
- 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: (date)

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

**How tested:** [ ]

**Length of test:** [ ]

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

*NOT ENOUGH WATER TO PAY PUTTING A PUMP IN.*

[DRILL HOLE 4 3/4 IN. DIAM.]
<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>DIRT</td>
</tr>
<tr>
<td>5</td>
<td>SANDSTONE</td>
</tr>
<tr>
<td>12</td>
<td>BLUE SHALE</td>
</tr>
<tr>
<td>15</td>
<td>alternating layers of sandy/blue shale</td>
</tr>
</tbody>
</table>
WATER WELL LOG

Owner: Angelina Taylor
Address: Missoula, Mont.

Driller/Dug: Lucy Taylor
Address: Missoula, Mont.

Date Started: 1936
Date Completed: 1936

Location: Sec. 18 T. 7 R. 39 N sec. 105 West 1/2

Type of well: Dug

Equipment used: Pick, shovel, dynamite, driller

Water use: Stock

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

Type of screen or perforations:

Static water level, for non-flowing well: 3 ft from bottom of well 3 feet

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

Pumping water level: 1 foot at 1 gal. per min

How tested:

Length of test

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

This is a dry well. The pumping water level & gal. per min. varies with the season.

The overall depth is 12 ft.

[Peor Well]
## Log of Well

<table>
<thead>
<tr>
<th>Depth, feet</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 ft</td>
<td>sand &amp; clay</td>
</tr>
<tr>
<td>6 ft to 10 ft</td>
<td>sand &amp; stone</td>
</tr>
<tr>
<td>10 ft to 12 ft</td>
<td>shale - blue</td>
</tr>
</tbody>
</table>
TRIPPLICATE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

STATE ENGINEER

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

2. The beneficial use on which the claim is based Stock water and irrigation of garden of approximately 1/4 acre.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been November 10, 1959, and continuously thereafter.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 1/2 gallon 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 1/4 acre within 35 feet of the well, land owned by Angelina Taylor.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Re. pipe, pump rod and 1 1/2 H. P. gasoline motor with pump jack located in SW1/4 of Section 10-TN-29.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Commenced well June 30, 1959, and completed November 10, 1959, to 30' and deepened to 175' on July 25, 1961.

8. The depth of water table 80'

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 cased with 6'' galvanized casing down to 71 7/8' and with 1 1/2'' draw pipe in well for pumping water.

10. The estimated amount of groundwater withdrawn each year 100,000 gallons

11. The log of formations encountered in the drilling of each well if available 0' to 7' dirty 7' to 31' sandstone 31' to 39' coal 39' to 53' very hard rock 53' to 26' blue shale; 26' to 38' sandstone; 38' to 110' alternating layers of sand and blue shale; 110' to 135' sandy shale; 135' to 165' blue shale; 165' to 175' sandy shale.

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record not applicable.

Signature of Owner Angelina Taylor
Date February 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 School of Mines and Quadruplicate for the Appropriator.
STATE OF MONTANA
MUSSELSHELL COUNTY.

FILED THIS 13 DAY OF
JULY A.D. 1963
AT 7:45 O'CLOCK A.M.
B. H. MATZKE
COUNTY RECORDER

CLARENCE ROSSMAN
DEPUTY
**WATER WELL LOG**

<table>
<thead>
<tr>
<th>Field</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner</td>
<td>Angelino Toyella</td>
</tr>
<tr>
<td>Address</td>
<td>1301 1/2 T. 7 R. 29 1/4 sec. South West 47</td>
</tr>
<tr>
<td>Date Started</td>
<td>1956</td>
</tr>
<tr>
<td>Date Completed</td>
<td>1956</td>
</tr>
<tr>
<td>Type of well</td>
<td>Drilled</td>
</tr>
<tr>
<td>Equipment used</td>
<td>Rotary</td>
</tr>
<tr>
<td>Water use</td>
<td>Stock</td>
</tr>
<tr>
<td>Casing</td>
<td>0 ft. to 18.0 ft.</td>
</tr>
<tr>
<td>Screen</td>
<td>130 ft. from bottom of well</td>
</tr>
<tr>
<td>Static Water level</td>
<td>130 ft. from bottom of well</td>
</tr>
<tr>
<td>Shut-in pressure</td>
<td>lb./sq. in. on: (date)</td>
</tr>
<tr>
<td>Pumping water level</td>
<td>feet at gal. per min</td>
</tr>
<tr>
<td>Remarks</td>
<td>(Gravel packing, cementing, packers, type of shut-off, depth of shut-off)</td>
</tr>
<tr>
<td>This well has very slow rate of water</td>
<td>Poor Well</td>
</tr>
<tr>
<td>Depth, feet</td>
<td>Description of Material Drilled</td>
</tr>
<tr>
<td>------------</td>
<td>---------------------------------</td>
</tr>
<tr>
<td>0 - 25</td>
<td>sandy clay</td>
</tr>
<tr>
<td>25 - 180</td>
<td>alternate layers of sandstone + blue 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)

---

1. **C. X. Murphy**  
   (Name of Appropriator)  
   of Musselshell, Mont.  
   (Address)  
   (Town)

Country 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:  
   Homestead in early 1900s continued use to 50s cleaned in 50s used semiannually each year.

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal:  
   Pump
   397, 893, Sec. 10, T. 7N, R. 29E

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:  
   Cleaned and repaired Mar. 10 1959

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:  
   4 40 tank well depth about 200 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: None

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

---

Signature of Owner:  
Date: Dec. 19, 1962

---

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

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

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

1. G. K. Murphy, of Musselshell
   (Address) Musselshell
   (Town) Musselshell
   County of Musselshell, State of Montana

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

   Stock water

   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
      Unichowan
      Each season
      1940, guessed

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

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

   6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
      Pump
      Center Sec. 11 T, P N 29 E

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

   8. The depth of water table 100

   9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
      6 in. case, 200 ft

   10. The estimated amount of groundwater withdrawn each year 100,000 Gal.

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

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

   Signature of Owner
   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.
Notice of Completion of Groundwater Appropriation by Means of Well
(Under Chapter 237, Montana Session Laws, 1961)

Owner: Clayton James
Address: Musselshell, Mont.

Driller: Orville O. Truel
Address: Musselshell, Mont.

Date of Notice of Appropriation of Groundwater: 

Date well started: 6/23/72

Data Completed: 6/27/72

Type of well: Drilled

Equipment Used: Cable Tool

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 water rises in the well.

<table>
<thead>
<tr>
<th>Size of Drilled Hole</th>
<th>Size of Weight of casing</th>
<th>From (Feet)</th>
<th>To (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Static Water Level for non-flowing Well: 2.0 feet.

Shut-in Pressure for Flowing Well: Not Flowing

Pumping Water Level: 23 feet at 20 gal. per minute.

Discharge in gal. per min. of flowing well: Not Flowing

How Tested: Bailed

Length of Test: 1 hr.

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


Show exact depth of bottom.

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

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

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

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

**Owner:** Clayton Jensen  
**Address:** Musselshell

**Driller:** Same  
**Address:** Same

**Date Started:** June 10, 1944  
**Date Completed:** June 15, 1944

**Location:** Sec. 13  
**T.** 7  
**R.** 29  
**Sec.** 1/4

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

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

- Industrial  
- Drainage  
- Other

**Casing:**  
- 0 ft. to 36 ft. Type Galvanized Size 6" 18 ga

**Perforated or screened:**  
- Ft. 36 to Ft. 20, Ft. to Ft. 20

**Type of screen or perforations:** 3/16 round holes

**Static water level, for non-flowing well:** 14 feet.

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

**Pumping water level:** 14 feet at 10 gal. per min.

**How tested:** Cylinder pump

**Length of test:** Forty eight hr

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

(over)
# Log of Well

<table>
<thead>
<tr>
<th>Depth</th>
<th>Description of Material Drilled</th>
</tr>
</thead>
</table>
| From  | To
| 0     | 10     | Yellow Clay |
| 10    | 18     | Sandy gravel |
| 18    | 24     | Blue Shale  |
| 24    | 35     | Yellow water sandstone |
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. G. K. Murphy of Musselshell, Mont.
   (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: Domestic, stock, and irrigation

   3. Date or approximate date of earliest beneficial use, and how continuous the use has been:
      Mar. 1959 continuous

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

   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:
      1 to 2 acres of lamb, garden and shelterbelt. Parcels 34 and 35 of G. K. Murphy's NW, Sec. 14
      7. 95. 2

   6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal:
      Pump
      10. NW, Sec. 14, 7. 95. 2

   7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
      Mar. 21, 1959 to Mar. 1, 1962

   8. The depth of water table: 35 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:
      5 in case 150 ft.

   10. The estimated amount of groundwater withdrawn each year: 600,000 gal.

   11. The log of formations encountered in the drilling of each well if available: 0 to 6 coll
      22. Shale, 28 sandstone, 26 water, 10 sandstone, 90 shale, 90 sandstone (water
      2gpm) 120 sandstone, 132 sandstone (water, 7.5 gpm). 150 shale, bottom

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

   Signature of Owner: ___________________________
   Date: Dec. 1962 Dec 19

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.

3069
STATE OF MONTANA
MUSSEL SHELL COUNTY

Filed this 3 day of
A.D. 1922

At 10 o'clock A.M.
COUNTY CLERK

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

I, G. K. Murphy, of Musselshell, Montana, have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

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

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

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

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

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

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

8. The depth of water table.
   Unknown.

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

10. The estimated amount of groundwater withdrawn each year.
    100,000.

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

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

Signature of Owner: G. K. Murphy
Date: Dec. 26, 1962

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

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

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

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

1. G. K. Murphy  
(Name of Appropriator)  
of Musselshell  
(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:  

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

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  
Unknown  

4. Amount of groundwater claimed (in miner’s inches or gallons per minute)  
3 rpm  

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  
SEC. 32, T7N R29E  

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

8. The depth of water table  
150  

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater  
6 in. 500 ft. deep  

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

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

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

Signature of Owner: G. K. Murphy  
Date, Dec. 19, 1962  

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

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

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

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

1. Name of Appropriator: G. K. Murphy
   Address: Musselshell, Mont.
   Town: (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 use has been each year.

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

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

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

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

   8. The depth of water table: unknown; about 100 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:
      Siamograph well 6 in., casing about 200 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: None

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

   Signature of Owner: G. K. Murphy
   Date: Dec. 12, 1959

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. G. K. Murphy, of Musselshell, Mont.
   (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:
   Spring 1955
   Occasionally each year

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal:
   
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater:
   Sept. 15, 55 to Jan. 20, 56

8. The depth of water table:
   600 ft.

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

10. The estimated amount of groundwater withdrawn each year:
    100,000 gal.

11. The log of formations encountered in the drilling of each well if available:
    
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record:

Signature of Owner: __________________________
Date: Dec. 19, 1962

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

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

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

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: Homestead days:

Owner's Name: Murphy
Address: Musselshell, Mont.

Contractor (if any): None
Address of Contractor: None

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. Scoured into pond.

Cleaned in 1960

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: 150,000 gal.

75 stears @ 10 gal. per day for 200 days

Signature of Owner: Date: Dec. 23, 1962

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

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

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

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

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater: Homestead days
Owner: K. K. Murphy Address: Russellbelle Mont.
Contractor (if any): None
Address of Contractor: None
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. See page into pond.

Gained in 1960

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: 150,000 gal.

75 stears @ 10 gal. per day for 300 days

Signature of Owner: Date: Dec. 28, 1962

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

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

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

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the School of Mines and quadruplicate for the Appropriator.
# Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

**John E. Turley**, M.B., D.P., of **Rotterdam**, **N.Y.**

*(Name of Appropriator)*

*(Address)*

*(Town)*

*(State of Montana)*

*(County of Montana)*

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

1. **N**
   - **W**
   - **E**
   - **S**

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

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

3. **Date or approximate date of earliest beneficial use; and how continuous the use has been:**
   - **Aug. 5, 1934**
   - **Aug. 5, 1934**
   - **Aug. 5, 1934**

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

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

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:**
   - **Jan. 1, 1934 - Aug. 5, 1934**

8. **The depth of water table:**
   - **120 ft**

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

10. **The estimated amount of groundwater withdrawn each year:**
    - **1,200,000 gal.**

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

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

**Signature of Owner:**

*John E. Turley*  
*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 Appropriate.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. John E. Johnson, of 3rd St. Helena
   (Name of Appropriator)  (Address)  (Town)
   County of Helena, 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... Aug. 1, 1946

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

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 a duplicate for the Appropriator.
STATE OF MONTANA
MISSOULA COUNTY

FILED THE 31st DAY OF
December A.D. 1963
1:43 O'clock P.M.

S. A. Muir
COUNTY RECORDER

Magness Dawson
DEPUTY

169754
**MONTANA BUREAU OF MINES AND GEOLOGY**  
Bozeman, Montana

**WATER WELL LOG**

<table>
<thead>
<tr>
<th>Field</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of well</td>
<td>Drilled</td>
</tr>
<tr>
<td>Water use</td>
<td>Domestic</td>
</tr>
<tr>
<td>Date Started</td>
<td>June 57</td>
</tr>
<tr>
<td>Date Completed</td>
<td>Aug 67</td>
</tr>
<tr>
<td>Location</td>
<td>Sec 1, T. 7N, R. 29E, W. 1/4, NW 1/4</td>
</tr>
<tr>
<td>Casing</td>
<td>6 in. steel</td>
</tr>
<tr>
<td>Casing Size</td>
<td>6 in.</td>
</tr>
<tr>
<td>Perforated or Screened</td>
<td>Drilled</td>
</tr>
<tr>
<td>Type of screen or perforations</td>
<td>Drilled</td>
</tr>
<tr>
<td>Static Water level, for non-flowing wells</td>
<td>70 feet</td>
</tr>
<tr>
<td>Shut-in pressure, for flowing wells</td>
<td>88 feet at 70 gal. per min.</td>
</tr>
<tr>
<td>Pumping water level</td>
<td>Drilled</td>
</tr>
<tr>
<td>How tested</td>
<td>Drilled</td>
</tr>
<tr>
<td>Length of test</td>
<td>One hour</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>0-45</td>
<td>Top Soil</td>
</tr>
<tr>
<td>45-74</td>
<td>Sand Rock</td>
</tr>
<tr>
<td>74-124</td>
<td>Sand, Rock, Sand and gel Water</td>
</tr>
<tr>
<td>124-176</td>
<td>Coal</td>
</tr>
<tr>
<td>176-202</td>
<td>Chalk and Sand Rock</td>
</tr>
<tr>
<td>202-212</td>
<td>Sand, Rock, Sand and gel water</td>
</tr>
<tr>
<td>212-218</td>
<td>Shale</td>
</tr>
<tr>
<td>218-222</td>
<td>Sand and Rock, some water</td>
</tr>
<tr>
<td>222-228</td>
<td>Shale</td>
</tr>
<tr>
<td>228-238</td>
<td>Sand and Rock, Sand and gel</td>
</tr>
<tr>
<td>238-242</td>
<td>Rock</td>
</tr>
</tbody>
</table>

85' off to water, failed 1 gal per minute for one hour. Lots of water yet in hole.
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL
Developed after January 1, 1962
(Under Chapter 237 Montana Session Laws, 1961, as amended)

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

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

Owner: J.K. Mullery
Address: Musselshell, Mont.

Date: April 28, 1972

Type of well: Drilled
Equipment used: Rotary

Water Use: Domestic [ ] Municipal [ ] Stock [ ] Irrigation [ ]

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL

<table>
<thead>
<tr>
<th>Size of</th>
<th>Size and</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intake</td>
<td>casing</td>
<td>0</td>
<td>318</td>
</tr>
</tbody>
</table>

PERFORATIONS

<table>
<thead>
<tr>
<th>Kind Size</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>slotted</td>
<td>254</td>
<td>310</td>
</tr>
</tbody>
</table>

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

Driller's Signature: [Signature]

Driller's Address: Klein, R.R. 2

LICENSE NO: 207

Show exact depth of bottom

59.361